Earth Mechanics, Inc.
Geotechnical & Earthquake Engineering

July 20, 2015

EMI Project No. 15-101.02

HNTB Corp.
1111 Broadway
Oakland, CA 94607

Attention: Mrs. Karen Wang, P.E.

Subject: **Revised Final Site Investigation Report on Soil Analytical Testing and Potholing, Interurban Electric Railway Bridge Yard Shop (IERBYS) Improvements, 210 Burma Rd, Oakland, CA**

Dear Mrs. Wang:

Attached is our revised final Site Investigation Report for the proposed IERBYS (Interurban Electric Railway Bridge Yard Shop) Improvements Project in Alameda County, California as part of the subject Bay Area Toll Authority (BATA) On-Call Services contract. This report documents our shallow soils investigation, analytical laboratory testing, and potholing effort, and provides the results and our findings. All review comments we have received to date have been incorporated into this final report.

We appreciate the opportunity to provide geotechnical services for this project. If you have any questions please do not hesitate to contact us.

Sincerely,
EARTH MECHANICS, INC.

REGISTERED PROFESSIONAL ENGINEER
MIKE KAPUSKAR
No. GE2564
Expires 12-31-16
GEOTECHNICAL
STATE OF CALIFORNIA

Mike Kapuskar, GE 2564
Project Manager

REGISTERED PROFESSIONAL ENGINEER
DANE NICKLAUS
NO. C84266
EXP. 9-30-2015
CIVIL
STATE OF CALIFORNIA

Dane Nicklaus, PE 84266
Staff Engineer

MK:DN:tm

3541 Investment Blvd, Suite #4, Hayward, California 94545 • Tel: (510) 562-8833 • Fax: (510) 562-8858

Earth Mechanics, Inc.
Geotechnical & Earthquake Engineering

TECHNICAL MEMORANDUM

EMI PROJECT NO: 15-101.02

DATE: July 20, 2015

PREPARED FOR: Karen Wang / HNTB Corp.

PREPARED BY: Mike Kapuskar, Dane Nicklaus / Earth Mechanics, Inc.

SUBJECT: **Revised Final Site Investigation Report on Soil Analytical Testing and Potholing, Interurban Electric Railway Bridge Yard Shop (IERBYS) Improvements, 210 Burma Rd, Oakland, CA**

1 INTRODUCTION

1.1 Purpose

As part of the Bay Area Toll Authority (BATA) on-call services contract, Earth Mechanics, Inc. (EMI) provided site investigation and potholing services in the existing parking lot area of the IERBYS (Interurban Electric Railway Bridge Yard Shop) building located at 210 Burma Rd, Oakland, California, and surrounding areas including the adjacent Caltrans maintenance road. This report documents these services to assist HNTB in preparation of plans and specifications for improvements related to the construction of lighting standards, access gates, and related earthwork.

The field investigation consisted of soil and groundwater sampling, analytical testing, and potholing at proposed trenches and foundation locations. The purpose of subsurface sampling and analytical testing was to characterize the subsurface materials that are to be excavated and removed during construction operations by contractors. The purpose of potholing was to positively identify the location and depth of an existing PG&E high-risk pressurized gas transmission main line within the extents of the property to protect it during proposed construction.

This Final Report is based on current design information provided by HNTB Corp. and Forell/Elsesser Engineers. The design process is under BATA and Caltrans review. This report is not intended to be a comprehensive site characterization report.

1.2 Available Geotechnical Information

The Foundation Report by EMI (EMI, 2015) summarizes recent and prior geotechnical investigations and provides geotechnical information for foundation design of the proposed lighting standards as part of the IERBYS permanent improvements.

The Foundation Report by Fugro-EMI (2013) summarizes prior geotechnical investigations and provides geotechnical information for design of other foundation design for other temporary improvements such as light towers and platforms as part of the San Francisco-Oakland Bay Bridge project.

2 FIELD INVESTIGATION

2.1 Pre-Field Activities

On April 24, 2015, EMI staff entered the job site shown in Figure 1 to perform a site walk and premark the soil sampling locations to plan the investigation. A sampling plan showing proposed soil sampling locations and pothole locations was prepared and submitted to Caltrans Environmental Unit for review and approval. Based on this plan, EMI secured a Water Resources Well Permit from Alameda County Public Works Agency and cleared underground utilities through the USA Dig Alert service.

On May 5, 2015, OHJ Utility Locator of Oakland, CA, a professional utility locator service, surface scanned and marked the approximate locations of existing private gas/electric/water utility lines in the immediate vicinity of the sampling locations and along the high-risk 12” diameter PG&E gas line located along the south border of the yard. The final 11 sampling locations were selected to target the locations of proposed utility trenches or proposed light pole or gate post foundations and to avoid existing buried utilities. The final 4 pothole locations were selected to locate the gas line to allow determination of the as-constructed alignment the line.

2.2 Potholing

On May 5 and 6, 2015, EMI began potholing at 4 locations (Pothole #1 to #4) as shown on the plan of Figure 1. Pavement was cut using a jackhammer to slots of about 12”x12” to 16”x16” in lateral dimension. A rubber-tired vacuum truck equipped with a pressurized air tool (“airknife”) was used to cut through soil and expose the gas line. A PG&E representative was present during potholing. Progress and duration of the potholing effort was controlled by the availability of the PG&E representative.

At pothole locations #1 and #2, the gas pipe was positively identified at 5’4” and 5’3” depth below top of pavement, respectively. The pipe was observed to consist of approximately 12” diameter metal tubing embedded in native fill soils. Extents of the gas pipe were marked on the pavement and the pothole was backfilled.

Pothole #3 was placed in the recent PG&E utility trench location. Potholing progressed to about 9 ft depth below the top of pavement. Groundwater was encountered near 6 ft depth below top of pavement. The gas line was not found and the pothole was terminated and backfilled. At Pothole #4, a rock boulder obstruction was encountered below the pavement section and the pothole was terminated at the end of the shift. A fifth box (Pothole #3A) and a larger box around Pothole #4 were marked and both boxes cleared with USA Dig Alert.

On May 13, 2015, potholing resumed at pothole #3A and #4A/B (see Figure 1). Positive identification of the gas pipe was made at Pothole #3A at 6’0” depth below top of pavement. The

extents of the gas pipe were marked and the pothole was backfilled. At Pothole #4A, which is close to the toe of the small roadway embankment slope of the maintenance road, large boulders at approximately 4 ft depth below top of pavement were encountered and made further excavation impossible. The pothole was backfilled and pothole efforts were repeated shifting 9 ft westward to location #4B. Vacuuming progressed to approximately 7 ft depth below top of pavement through a small void, but a positive identification of the pipe was also not possible due to more large boulders obstructing the hole. Pothole #4B was backfilled at termination of the shift.

An additional pothole #5 was marked and cleared on the east lane of the maintenance road (see Figure 1). On May 28, 2015, soils were removed and cobbles larger than 12" in dimension were lifted out of the pothole. The pipe was encountered at 7'11" depth below top of pavement. The location was within 1 ft north of the alignment pre-marked by the utility locator on April 24, 2015 at that location (see Appendix A).

At pothole locations #1, 2, 3A and 5, where the 12" gas pipe was positively detected by eye, its lateral location and orientation was spray-painted in white on the pavement and the depth from top of asphalt concrete to top of pipe was tape-measured to the nearest half inch. Photos were taken to document positive identification of the pipe and are included in Appendix A. Lateral distances between the pipe's central axis and known landmarks were measured by tape and measuring wheel. The landmarks and measurements are documented in Figure 1.

Groundwater at the time of potholing was encountered near 6 to 7 ft depth below top of pavement. Where groundwater was encountered, soil caving occurred and vacuuming was conducted expeditiously to minimize caving. Potholes were backfilled using import sand per PG&E direction, followed by in-situ native soil compacted by tamping in lifts and capped with asphalt cold-patch. Surplus cuttings were transferred to a 55-gal drum and stored in the Caltrans IERBYS building.

2.3 Soil Sampling

On May 5 and 6, 2015, the sampling investigation was conducted at 11 locations using a rubber-tired direct-push rig operated by Gregg Drilling of Martinez, CA. The actual sampling depths are summarized in Table 2 (see Section 3). At some locations, the 1-ft sampling depth was adjusted to account for suitable soil materials below existing road base materials.

Prior to work, field staff were informed about work procedures according to EMI's Health and Safety Plan to ensure workers' safety on the job and an understanding of well backfill requirements. Figure 1 shows the as-drilled soil sampling locations. Lateral distances between borings and existing landmarks were measured by tape and measuring wheel from existing landmarks as noted in Figure 1.

Borings were backfilled with a neat cement slurry with approval by the Alameda County inspector, then cold-patched to restore the pavement surface. Asphalt and remaining soil cuttings were transferred to a 55-gal drum, labelled, and stored in the Caltrans IERBYs building.

2.4 Sampling Procedures

At each sampling location, soil samples were taken by coring through the asphalt concrete pavement and drilling into underlying sand and rock road base using a 4" solid-stem auger. A 4-ft long macrocore sampler was advanced by a hammer into virgin soil to extract a continuous core of soil. The macrocore sampler system utilizes an acetate liner containing a continuous core of soil after driving and facilitates visual inspection and extraction of soil samples from discreet depth intervals. An EMI technician trimmed the liner to collect samples from the specified sampling depths per Table 2 and sealed each sample with Teflon tape and plastic caps. Soil samples targeted for volatile organic compound (VOC) testing were collected using disposable terracore samplers. The sample containers were placed in disposable, resealable plastic zip-lock bags, stored in chests filled with ice, and held for transport. Samples were labelled and recorded on test request forms and standard chain-of-custody forms.

A groundwater grab sample was collected using a disposable plastic bailer and collected in 40 mL glass vials for volatile organic analysis (VOAs) preserved with hydrochloric acid and unpreserved 1 liter amber bottles.

As part of the field QA/QC procedures, all sampling equipment that came in contact with soil was decontaminated with a Liqui-Nox wash and two deionized water rinses prior to collecting each sample. Sampling equipment including sample containers were handled with nitrile disposable gloves and utmost care. Additionally, two equipment blanks were collected; one blank was collected from the soil sampling equipment and one from the disposable bailer used to collect the groundwater sample. No free product, soil discoloration/sheen, odor, or reaction with chemical preservatives was observed from the samples collected during the field investigation.

2.5 Disposal

After completion of sampling and potholing, asphalt and remaining soil cuttings were transferred to a total of three 55-gal drums and stored in the Caltrans IERBYS building. The soil drums were profiled by State-certified waste-hauler Dillard Environmental of Byron, CA and removed off-site on June 17, 2015 for proper disposal. Chain-of-Custody documents are attached in Appendix B.

3 LABORATORY ANALYSES

A total of 37 soil samples and one (1) groundwater sample were submitted to TestAmerica, Inc. in Pleasanton, CA, a State-Certified environmental laboratory, for the analytical tests summarized in Table 1. The test suite for CCR Title 22 metals consists of the standard CAM-17 (California Assessment Manual) metals suite including mercury and lead.

The sampling schedule shown in Table 2 follows the sampling intervals requested by the Caltrans Environmental Unit with minor adjustments as described in Section 2.3. A total of 159 tests were conducted by TestAmerica and the data report of the final laboratory test results is attached in Appendix B.

4 FINDINGS OF INVESTIGATION

4.1 Ground Conditions

Caltrans Yard. Based on this and past investigations (EMI, 2015, 2013), the asphalt concrete pavement in the parking lot is about 3" thick. The pavement is underlain by about 15" to 19" of roadway base materials consisting of pea-sized rock. This is followed by 12 to 20 ft of variable Mole fills soils consisting of a melange of grayish brown, moist sands with variable rock sizes and fines, clayey gravel, silty sand, and sandy silts and clays down to the depths excavated. Recent gray-colored sand and gravel fill was encountered in the utility trench location of pothole #3.

Maintenance Road. Several large rock obstructions approximately 2 ft and larger in size were encountered at Pothole #4/4A/4B (see Figure 1) in the Caltrans material storage yard. The large debris was encountered in three attempts to expose the utility in that area.

Based on Pothole #5, the asphalt pavement is approximately 6" thick and underlain by 19" of road base materials followed by sandy fill, and native silt and clay soils to 6 ft depth. The fill soils in the upper few feet depth include abundant cobbles larger than 12" in dimension.

4.2 Groundwater Conditions

Groundwater was encountered near 4 ft depth below top of pavement in sampling location A-15-011 and potholes #1, 2, and 3 on May 5 and 6, 2015. Groundwater was found at 5 ft depth at location A-15-005. Perched groundwater was observed at shallow depth (about 1 ft below top of pavement) in boring A-15-004. From observations in past soil borings, hand auger borings, and piezometric pressure measurements (EMI, 2015), groundwater was found between 3.5 and 7 ft depths. Standing water was also observed slightly above the existing concrete pilecap elevation at the pile extraction test site inside the paintyard building (EMI, 2013). The groundwater in the Mole fills is subject to tidal fluctuations and seasonal influences.

5 LABORATORY TEST RESULTS AND STATISTICAL EVALUATION

5.1 Statistical Analysis

Statistical analyses were performed using ProUCL V5.0.00 software provided and maintained by the U.S. Environmental Protection Agency (EPA, 2013) for use in analysis of environmental data sets. The arithmetic mean and 90% and 95% upper one-sided confidence limits (UCL) of the arithmetic mean concentration of selected constituents were determined. Several different methods are available to calculate the UCL on the mean. Parametric methods are dependent on the distribution of data, and non-parametric methods are independent of the distribution of data. The UCL values (determined as described below) for a particular constituent (analyte) require that a sufficient number of sample values are available to conduct a meaningful statistical analysis.

5.2 Goodness-of-Fit Tests

Goodness-of-fit tests are performed to determine the distribution of the sample data. Based on the number of samples and the distribution of data, the appropriate statistical method is selected to calculate the UCL on the mean. If the data do not appear to be distributed normally, log-

normally or as a gamma distribution, application of a non-parametric method is required to determine the UCL on the mean.

5.3 Upper Confidence Limit (UCL)

For normally-distributed data, the UCL on the mean is determined using Student's-*t* distribution. For log-normally-distributed data, the *H*-statistic distribution is used if the standard deviation is less than 2.0; otherwise, a gamma distribution, a non-parametric bootstrap or Chebyshev method is used to determine the UCL. For gamma-distributed data, either a gamma method, adjusted gamma method, Bootstrap-*t* or Hall's Bootstrap method may be used to determine the UCL. For data that are not normally-, log-normally-, or gamma-distributed, a variety of non-parametric distributions may be used including, but not limited to, Hall's Bootstrap UCL, the Chebyshev UCL, and the modified-*t* statistic.

5.4 Regression Analysis

Samples determined to possess greater than 50 mg/kg of total lead require that soluble lead be tested using the STLC (Citric Acid) method. A correlation between the 95% UCL on the mean for total lead and the 95% UCL on the mean for soluble lead can be obtained using a regression analysis.

The regression analysis consists of creating a least-squares-fit approximation of the soluble lead and total lead data and obtaining a correlation coefficient "r". If the regression analysis yields a correlation coefficient "r" of 0.8 or greater, the 95% UCL for total lead can be correlated to the 95% UCL for soluble lead. To determine the correlation coefficient "r", a line is fit to the data using the equation:

$$y = mx + b$$

where:

y = soluble lead, milligrams per liter
x = total lead concentration, milligrams per kilogram
b = y-intercept
m = slope = $(r \text{ x } s_t) / s_s$
r = correlation coefficient
s_t = standard deviation of the total lead concentrations
s_s = standard deviation of the soluble lead concentrations.

The applicability of the correlation is directly related to r which should be greater than or equal to 0.8. If r is less than 0.8, then the determination of the 95% UCL on the mean for soluble lead may not be achievable by this method.

5.5 Incorporation of Non-Detects (ND's)

Several samples were determined to contain non-detectable levels of a constituent. As documented in Sections 1.11.1 and 2.8 of the ProUCL user guide, the EPA (2013) recommends that non-detects (ND's) be replaced with a value equal to the detectible limit of the analysis. For the analyses presented herein, where ND samples are included in the sample data, ND samples are incorporated consistent with the ProUCL V5.0 user guide recommendations and replaced

with a value equal to the detectible limit of the analysis. The print-outs from ProUCL are provided in Appendix C.

5.6 CAM 17 Metals in Soil

5.6.1 Lead in Soil

A total of 37 soil samples from the depths shown in Table 2 were tested for total lead content. The total threshold limit concentration (TTLC) test results are provided in Table 3a.

Soil Handling. Environmental screening levels (ESL) are shown for comparison at the bottom of the table for the following scenarios based on 2013 San Francisco Regional Water Quality Control Board (SFRWQCB) guidelines:

- shallow soil (less than 10 ft) for residential land use (Table B-1 from SFRWQCB, 2013),
- shallow soil (less than 10 ft) for commercial/industrial land use (Table B-2),
- groundwater not as a drinking water resource (Table F-1b), and
- direct exposure of construction/trench workers (Table K-3).

The purpose of the ESL is for evaluation of sites impacted by commonly found chemicals in soil and groundwater and can be used to determine if there is a potential threat to human health, water resources, or the environment during proposed construction and subsequent land use. The tables show state and federal hazardous waste thresholds.

Among all 37 soil samples taken, samples A-15-003-1.5/2/6, A-15-006-1.5, A-15-009-1/2 and A-15-010-1 showed TTLC concentrations exceeding the ESL for residential applications (80 mg/kg). The 90% and 95% UCL of lead TTLC were 78.3 and 86.2 mg/kg, respectively. Only one sample (A-15-009-1) spiked above the high ESL shown for construction worker exposures (320 mg/kg). Eight samples (the above six samples and samples A-15-007-1 and A-15-008-1) exceeded the Caltrans limit of 50 mg/kg for the purpose of waste classification.

Waste classification of soil samples from Caltrans Yard. All samples were well below California hazardous waste criteria (1,000 mg/kg). Seven samples from the Caltrans Yard area were analyzed further for standard STLC-WET (Soluble Threshold Limit Concentration by citric acid extraction) and three samples with STLC exceeding 5 mg/L were tested for soluble lead by TCLP (Toxicity Characteristic Leaching Procedure). The results are shown in Table 3b. A linear regression analysis was conducted to correlate the seven STLC results with TTLC results for the purpose of estimating the 90% and 95% UCL for STLC. The ProUCL evaluations are provided in Appendix C. No discernable trend was found between the seven STLC and TTLC values (correlation coefficient r=0.14). This finding was confirmed using linear regression analysis in Microsoft Excel. As a result, it was concluded that 90% and 95% UCL for STLC cannot be projected based on this set of data. As described in Section 4.14, the fill soils on the Oakland Mole are variable and historically were placed at different times with variable sources. Table 3b shows three STLC results from samples A-15-003-1.5/2/3 of 6.5, 1.8, and 6.5 mg/L respectively (average just under 5 mg/L), while all other results from samples spread around the Yard were below 5 mg/L.

Based on these results, two approaches are considered for waste classification for proposed construction:

(1) If soils excavated in Area II shown on Figure 1 are segregated and stockpiled separately, they should be treated as hazardous waste (Caltrans Type Y-1). Alternatively, those soils can be submitted for analytical testing for STLC to determine if the soils can be treated as non-hazardous waste (Type X) or hazardous material (Type Y-1) that could be re-used per Caltrans ADL-Impacted Soil Management/DTSC Variance procedures.

(2) If excavated soils are managed in bulk as a whole, they can be classified as non-hazardous waste (Caltrans Type X) if approved by the waste hauler.

Recommendations for waste classification are provided in Section 6.3.

Waste classification of soil samples from Maintenance Road. The STLC and TCLP results from location A-15-009 are shown in Table 3c. The TTLC, STLC and TCLP exceed the hazardous waste criteria shown at the bottom of Table 3c. Therefore, based on the federal waste criteria (see Section 6.3) and Caltrans ADL-Impacted Soil Management flowchart, soils from the A-15-009 area are found to be RCRA Hazardous Waste (Caltrans Type Z-3).

5.6.2 Other CAM-17 Metals in Soil

A total of 14 soil samples from the depths shown in Table 2, were tested for mercury using EPA method 7471A and 15 other metals as part of the CAM-17 metals suite using EPA method 6010B. The TTLC test results are provided in Table 4. The data range, mean, 90% and 95% UCLs, and ESL per SFRWQCB (2013) are shown at the bottom of the table.

Among all 14 soil samples taken, all metal concentrations including mercury were well below the ESL for construction worker exposure. All concentrations were below ESL for residential land use, except the arsenic concentrations in all 14 samples exceeded the ESL for residential land use.

California hazardous waste criteria (see Section 6.3) are shown at the bottom of the table. None of the TTLC concentrations exceeded the criteria.

5.6.3 Organic Compounds, Pesticides, and PCBs in Soil

A total of 24 soil samples from the depths shown in Table 2 were tested for:

- Total Petroleum Hydrocarbons as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo) and grease using EPA method 8015B,
- Volatile Organic Compounds (VOCs) using EPA method 8260B,
- Organochlorine Pesticides using EPA method 8081A, and
- Polychlorinated Biphenyls (PCBs) using EPA method 8082.

The test results are provided in Table 5. The data range, mean, and 90% and 95% UCLs for TPH are provided at the bottom of the table. Exposure limits shown in Table 5 are from SFRWQCB

(2013). The ESLs for VOC for carbon disulfide are from National Institute for Occupational Safety and Health (NIOSH) guidelines (Center of Disease Control and Prevention, 2015).

Among all 24 soil samples taken, all TPH concentrations were either non-detect or well below the ESL for residential land use except the following exceeded ESL: A-15-003-2 (diesel), A-15-003-6 (diesel & gasoline), and A-15-006-1.5 (motor oil), A-15-007-3 (motor oil), A-15-008-1 (motor oil), A-15-009-1/2 (motor oil), and A-15-010-1 (motor oil). All TPH concentrations were well below the ESL for construction worker exposure.

Pesticides and PCBs were not detected in any of the samples except at samples A-15-009-1/2.

5.6.4 Organic Compounds, Pesticides, and PCBs in Groundwater

Groundwater samples were taken at sampling location A-15-005 at 5 ft depth below top of pavement. The samples were tested for:

- Total Petroleum Hydrocarbons as gasoline, diesel, and motor oil and grease using EPA method 8015B,
- VOCs using EPA method 8260B,
- Pesticides using EPA method 8081A, and
- PCBs using EPA method 8082.

The test results, data range, mean, 90% and 95% UCLs are provided in Table 6, along with the ESL for groundwater not as a drinking water resource per Table F-1b of SFRWQCB (2013).

6 SUMMARY AND CONCLUSIONS

6.1 PG&E Gas Line

Potholing was conducted on May 5 and 6, 2015 to positively identify the location and depth of the existing PG&E 12” metal gas line at 4 locations. The utility was encountered within approximately 2 ft (lateral) of the expected alignment. The depth to top of pipe varied from 5’4” to 6’0” below top of pavement. The pipe location and depth measurements are provided in the plan in Figure 1 and site photos are provided in Appendix A.

6.2 Analytical Testing

A total of 37 soil samples and one (1) groundwater sample were taken from the upper 6 ft depth below top of pavement at a total of 11 sampling locations on the project site (see Table 2). The sampling locations are shown in Figure 1. A total of 159 tests were conducted (see Table 1 and Table 2). The test results are provided in Appendix B. The following conclusions were made based on the analytical test results from soil and groundwater samples:

- Lead concentrations: Among all 37 soil samples taken (see Table 3), seven showed total lead concentrations exceeding the Environmental Screening Levels (ESLs) set by the San Francisco County Regional Water Quality Control Board (SFRWQCB, 2013) for residential land use (A-15-003-1.5/2/6, A-15-006-1.5, A-15-009-1/2, and A-15-010-1). One sample (A-15-009) from the Maintenance Road showed a concentration spike

(37,000 mg/kg) far exceeding the SFRWQCB's ESLs for residential land use and construction worker exposure.

- Other metals: Among all 14 soil samples taken (see Table 4), all CAM-17 metal concentrations including mercury, but excluding lead, were well below all ESL for construction worker exposure. All concentrations were below the ESL for residential land use, except the arsenic concentrations in all 14 samples exceeded the ESL for residential land use.

- Total Petroleum Hydrocarbons: Among all 24 soil samples taken, all diesel, gasoline, and motor oil concentrations were below the ESLs for construction worker exposure (see Table 5). All samples were below ESLs for residential land use, except nine (9) of the samples significantly exceeded the ESL for residential land use (see Section 5.6.3). The diesel, gasoline, and motor oil concentrations of the single groundwater sample taken from location A-15-005 were well below ESLs for both residential land use and construction worker exposure (Table 6).

- Volatile Organic Compounds: Among all 24 soil samples taken, VOCs were found in 4 of 11 locations (A-15-001, 005, 008, 009) (see Table 5). In the single groundwater sample, VOCs were below detectable limits (Table 6).

- Pesticides and PCBs: Organochlorine Pesticides and Polychlorinated Biphenyls (PCBs) were not detected in any of the 24 soil samples except PCB-1254 was found at location A-15-009 (see Table 5). In the single groundwater sample, pesticides and PCBs were below detectable limits (Table 6).

6.3 Waste Classification

Criteria for California hazardous waste are provided in California Code of Regulations (CCR) Title 22, Div. 4.5, Chapter 11, Article 3. Criteria for RCRA (Resource, Conservation, and Recovery Act) hazardous waste are provided in Code of Federal Regulations (CFR) Chapter 40, Section 261.

The following conclusions were made based on the results from analytical testing, the above waste criteria, and Caltrans ADL-Impacted Soil Management/DTSC Variance flow chart:

- For soils excavated from the upper 6 ft below top of pavement within the fenced-in area of the Caltrans Yard property/parking lot, two recommendations are provided:

  Recommendation No. 1: Segregate the soils excavated in Area II from the remaining Area I shown on Figure 1. Soils from Area I can be expected to be non-hazardous (Caltrans Type X) waste. Test soils from Area II for lead STLC to determine if they classify for Caltrans Type Y-1 (hazardous) or non-hazardous soil (X) per Caltrans DTSC Variance.

  Recommendation No. 2: If soils from Areas I and II are managed in bulk as a whole, they can be classified as non-hazardous waste (Caltrans Type X) with approval of the

owner and waste hauler. Alternatively, all soil can be treated and managed of as Caltrans Type Y-1 waste (re-use as fill with 1 foot cover of clean soil).

- Soils excavated from the maintenance road area (sample A-15-009) are expected to be hazardous and require Class 1 disposal. The volume of excavation will be relatively small. Therefore, these soils from the upper 5.5 ft should be tested for TTLC and TCLP to determine if they classify as California Hazardous waste (Caltrans Type Z-2) or RCRA Hazardous Waste (Type Z-3).

7 LIMITATIONS

This report is intended for use by the Bay Area Toll Authority, the California Department of Transportation, and HNTB Corporation for the IERBYS Improvements project as described herein. This report is based on the project and subsurface information as described herein and the results of limited sampling and laboratory testing performed.

This report is not a comprehensive site characterization report and should not be construed as such. The information is not intended to address impacts other than those described herein. Data, opinions, and recommendations contained herein have no applicability to any other design elements or to any other locations, and any and all subsequent users accept any and all liability resulting from any use or reuse of the data, opinions, and recommendations without the prior written consent of EMI.

Services performed by EMI were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions. No other representation, expressed or implied, and no warranty or guarantee is included or intended.

8 REFERENCES

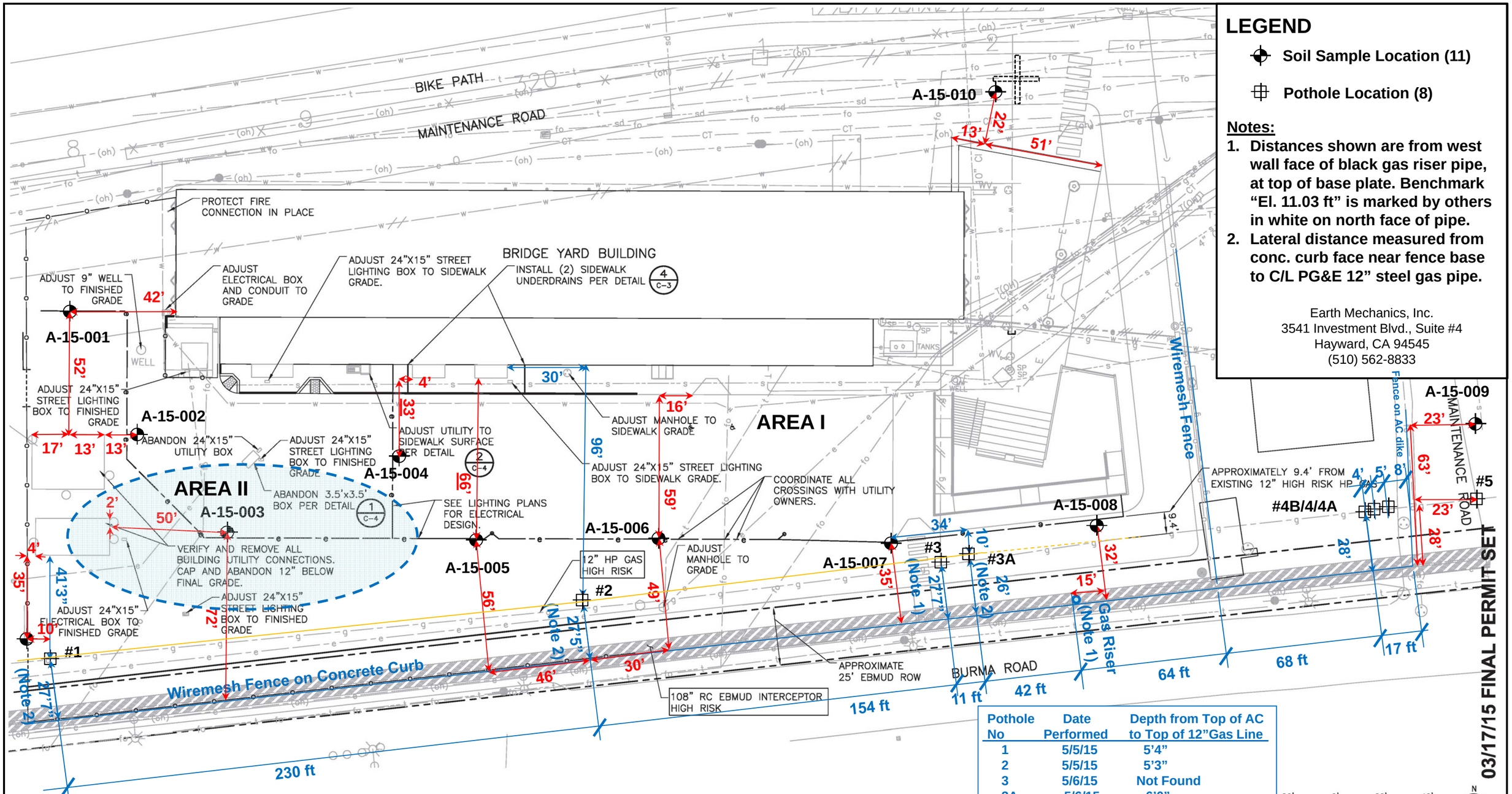
Earth Mechanics (EMI), 2015, Final Foundation Report for Lighting Standards, IERBYS Improvements, 210 Burma Rd, Oakland CA, April 10, report to Caltrans.

Fugro-EMI, 2013, Foundation Report for IERBY Temporary Improvements on Oakland Mole Touchdown, San Francisco-Oakland Bay Bridge East Span Seismic Safety Project, report to Caltrans.

Center of Disease Control and Prevention, 2015, National Institute for Occupational Safety and Health (NIOSH) Pocket Guide.

United States Environmental Protection Agency (EPA), 2013, ProUCL Version 5.0.00 computer software, *and* ProUCL Version 5.0 User Guide and Technical Guide, September.

San Francisco Regional Water Quality Control Board (SFRWQCB), 2013, User's Guide, Derivation and Application of Environmental Screening Levels, Interim Final 2013, December.



Pothole No	Date Performed	Depth from Top of AC to Top of 12"Gas Line
1	5/5/15	5'4"
2	5/5/15	5'3"
3	5/6/15	Not Found
3A	5/6/15	6'0"
4	5/6/15	Boulder Obstruction
4A	5/13/15	Boulder Obstruction
4B	5/13/15	Boulder Obstruction
5	5/28/15	7'11"

Earth Mechanics, Inc.
Geotechnical and Earthquake Engineering

INTERURBAN ELECTRIC RAILWAY BRIDGE YARD SHOP IMPROVEMENTS

EMI Project No. 15-101 | Date: 06-25-15

AS-DRILLED SOIL SAMPLING AND POTHOLE LOCATIONS

Figure 1

Table 1. Summary of Tests

Type of Test	Test Method	Purpose	Number of Tests
TPH Diesel, Gas, Motor Oil and Grease	EPA 8015B	Level of Total Extractable Petroleum Hydrocarbons	25
CCR Title 22 (CAM-17) Metals	EPA 7471A	Level of Mercury	14
	EPA 6010B	Levels of lead and 15 other CAM metals	47- Lead (37 TTLC, 7 STLC, 3 TCLP 14-Other Metals
VOC	EPA 8260B	Level of Volatile Organic Compounds	25
Pesticides	EPA 8081A	Level of Pesticides	25
PCBs	EPA 8082	Level of Polychlorinated Biphenyls	25
Note: EPA = Environmental Protection Agency			

Table 2. Sampling and Analysis Plan

Sampling ID	Sampling Depths in ft					
	Lead	**CAM-17 Metals**	**TPHg/d/mo**	**VOC**	**Pesticides**	**PCB**
	EPA 6010B	**EPA 6010B/ 7471A**	**EPA 8015B**	**EPA 8260B**	**EPA 8081A**	**EPA 8082**
A-15-001	1.5, 2, 3, 6	6	1.5, 3, 6	1.5, 3, 6	1.5, 3, 6	1.5, 3, 6
A-15-002	1.5, 2, 3	1.5	1.5, 2, 3	1.5, 2, 3	1.5, 2, 3	1.5, 2, 3
A-15-003	1.5, 2, 3, 6	6	2, 6	2, 6	2, 6	2, 6
A-15-004	1, 2, 3	2, 3	2	2	2	2
A-15-005	1.5, 2, 3, 6	6	1.5, 6, GWD	1.5, 6, GWD	1.5, 6, GWD	1.5, 6, GWD
A-15-006	1.5, 2, 3	3	1.5, 2, 3	1.5, 2, 3	1.5, 2, 3	1.5, 2, 3
A-15-007	1, 2, 3, 6	6	3	3	3	3
A-15-008	1, 2, 3	1, 2	1	1	1	1
A-15-009	1, 2, 3	2, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
A-15-010	1, 2, 3	1, 3	1, 2, 3	1, 2, 3	1, 2, 3	1, 2, 3
A-15-011	1.5, 2, 3	-	2,3	2,3	2,3	2,3
Total Number of Tests	**37**	**14**	**25**	**25**	**25**	**25**
Note: GWD=Groundwater Depth						

Table 3a. Total Lead Test Results – Soil by Depth

Sample Location	TTLC (mg/kg)			
	Sample 1 (Depth 1-1.5 ft)	**Sample 2 (Depth 2-2.5 ft)**	**Sample 3 (Depth 3-3.5 ft)**	**Sample 6 (Depth 5.5-6 ft)**
A-15-001	10	8.3	8.5	5.2
A-15-002	4.1	6.0	3.7	NA
A-15-003	180	180	31	93
A-15-004	21	8.0	5.1	NA
A-15-005	11	4.2	4.0	2.0
A-15-006	83	4.8	8.4	NA
A-15-007	58	33	13	3.2
A-15-008	63	6.4	49	NA
A-15-009	37,000	98	11	NA
A-15-010	97	8.8	5.9	NA
A-15-011	13	11	1.5	NA
Statistics				
• Minimum	4.1	4.2	1.5	2.0
• Maximum	37,000 (180*)	180.0	49.0	93.0
• Mean	3,413 (54.0*)	33.5	12.8	25.9
• 90% UCL	13,489 (78.3*)	84.0	21.6	62.5
• 95% UCL	18,053 (86.2*)	106.9	25.7	78.6
ESL				
• Residential Land Use	80			
• Commercial/Industrial Use	320			
• Construction Worker Exposure	320			
Hazardous Waste Criteria	1,000 (CA)			

Notes: (*) excluding the 37,000 mg/kg outlier from sample A-15-009-1.
NA = No test assigned per Table 2

Table 3b. Lead Test Results – Caltrans Yard Area, All Depths

Sample Location	Depth (ft)	TTLC (mg/kg)	STLC (mg/L)	TCLP (mg/L)
A-15-001	1.5	10	-	-
A-15-001	2	8.3	-	-
A-15-001	3	8.5	-	-
A-15-001	6	5.2	-	-
A-15-002	1.5	4.1	-	-
A-15-002	2	6.0	-	-
A-15-002	3	3.7	-	-
A-15-003	1.5	180	6.5	.53
A-15-003	2	180	1.8	.63
A-15-003	3	31	-	-
A-15-003	6	93	6.5	-
A-15-004	1	21	-	-
A-15-004	2	8.0	-	-
A-15-004	3	5.1	-	-
A-15-005	1.5	11	-	-
A-15-005	2	4.2	-	-
A-15-005	3	4.0	-	-
A-15-005	6	2.0	-	-
A-15-006	1.5	83	1.5	-
A-15-006	2	4.8	-	-
A-15-006	3	8.4	-	-
A-15-007	1	58	4.7	-
A-15-007	2	33	-	-
A-15-007	3	13	-	-
A-15-007	6	3.2	-	-
A-15-008	1	63	1.9	-
A-15-008	2	6.4	-	-
A-15-008	3	49	-	-
A-15-010	1	97	4.5	-
A-15-010	2	8.8	-	-
A-15-010	3	5.9	-	-
A-15-011	1	13	-	-
A-15-011	2	11	-	-
A-15-011	3	1.5	-	-
Statistics				
• Minimum		4.1	1.5	.53
• Maximum		180	6.5	.63
• Mean		54.0	4.5	-
• 90% UCL		78.3	(see Section 5.6.1)	-
• 95% UCL		86.2	(see Section 5.6.1)	-
ESL				
• Residential Land Use		80	-	-
• Commercial/Industrial Use		320	-	-
• Construction Worker Exposure		320	-	-
Hazardous Waste Criteria		1,000 (CA)	5 (CA)	5 (Federal)

Table 3c. Lead Test Results – Maintenance Road Area, All Depths

Sample Location	Depth (ft)	TTLC (mg/kg)	STLC (mg/L)	TCLP (mg/L)
A-15-009	1	37,000	100	5.8
A-15-009	2	98	-	-
A-15-009	3	11	-	-
ESL • Residential Land Use • Commercial/Industrial Use • Construction Worker Exposure		 80 320 320	 - - -	 - - -
Hazardous Waste Criteria		1,000 (CA)	5 (CA)	5 (Federal)

Table 4. Other CAM Metals Test Results - Soil

Sample Location	Depth (ft)	CAM Metal TTLC (mg/kg)															
		Antimony	Arsenic	Barium	Berryllium	Cadmium	Chromium	Cobalt	Copper	Mercury	Molybenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
A-15-001	6	ND	6.8	43	ND	ND	57	11	26	0.065	ND	56	ND	ND	ND	47	43
A-15-002	1.5	ND	2.9	71	ND	ND	42	7.2	15	0.042	ND	51	ND	ND	ND	24	29
A-15-003	6	ND	4.4	220	ND	ND	50	9.3	27	0.076	ND	63	ND	ND	ND	26	51
A-15-004	2	ND	6.8	24	0.40	ND	47	13	24	0.051	ND	50	ND	ND	ND	37	55
A-15-004	3	ND	3.7	20	ND	ND	44	8.0	22	0.045	ND	41	ND	ND	ND	36	42
A-15-005	6	ND	2.9	10	ND	ND	19	4.0	5.3	0.046	0.46	13	ND	ND	ND	12	12
A-15-006	3	ND	3.8	12	0.38	0.20	29	9.0	13	0.051	ND	53	ND	ND	ND	22	40
A-15-007	6	ND	1.6	17	ND	ND	19	4.1	5.1	0.059	ND	13	ND	ND	ND	13	15
A-15-008	1	ND	4.8	78	ND	0.24	32	7.7	38	0.310	0.46	37	ND	ND	ND	30	73
A-15-008	2	ND	4.5	100	ND	ND	46	9.0	23	0.044	ND	56	ND	ND	ND	29	39
A-15-009	2	ND	5.9	89	0.37	ND	78	10	59	0.410	ND	45	ND	ND	ND	37	91
A-15-009	3	ND	1.5	28	0.28	ND	10	4.0	11	0.420	ND	14	ND	ND	ND	18	26
A-15-010	1	ND	4.7	58	ND	ND	31	8.1	39	0.470	ND	32	ND	ND	ND	31	56
A-15-010	2	ND	6.0	23	ND	ND	46	10	19	0.043	ND	51	ND	ND	ND	38	43
Statistics																	
• Minimum		-	1.5	10	0.28	0.20	10	4.0	5.1	0.042	0.46	13	-	-	-	12	12
• Maximum		-	6.8	220	0.40	0.24	78	13.0	59.0	0.470	0.46	63	-	-	-	47	91
• Mean		-	4.3	57	0.36	-	39	8.2	23.3	0.152	-	41	-	-	-	29	44
• 90% UCL		-	4.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
• 95% UCL		-	5.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ESL																	
• Residential Land Use		20	0.39	750	4.0	12	1,000	23	230	6.7	40	150	10	20	0.78	200	600
• Commercial/Industrial Use		40	1.6	1,500	8.0	12	2,500	80	230	10	40	150	10	40	10	200	600
• Construction Worker Exposure		120	10	61,000	180	110	460,000	49	12,000	27	1,500	6,100	1,500	1,500	3.1	1,500	93,000
Hazardous Waste Criteria		500	500	10,000	75	100	2,500	8,000	2,500	20	3,500	2,000	100	500	700	2,400	5,000

Notes: ND = Not detected (below method detection limit)

Table 5. Organic Compounds Test Results – Soil

Sampling Location	Depth (ft)	Total Petroleum Hydrocarbon (mg/kg)			Volatile Organic Compounds (mg/kg)					Pesticides (mg/kg)				PCBs (mg/kg)	
		Diesel	Gasoline	Motor Oil	(A)	(C)	(D)	(T)	Other	(AC)	(GC)	(D)	Other	(P)	Other
A-15-001	1.5	4.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-001	3	9.3	ND	70	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-001	6	5.5	ND	90	ND	.013	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-002	1.5	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-002	2	5.0	ND	ND	0.049	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-002	3	2.9	ND	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-003	2	300	5.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-003	6	420	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-004	2	6.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-005	1.5	5.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-005	6	2.4	ND	ND	ND	0.0084	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-006	1.5	58	ND	600	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-006	2	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-006	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-007	3	8.8	ND	250	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-008	1	41	ND	1,300	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND
A-15-009	1	59	ND	420	0.048	ND	ND	0.014	ND	0.0043	0.0045	0.0037	ND	.11	ND
A-15-009	2	28	ND	330	ND	ND	ND	ND	ND	ND	ND	0.0076	ND	ND	ND
A-15-009	3	1.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-010	1	31	ND	640	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-010	2	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-010	3	2.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-011	2	11	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
A-15-011	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Statistics															
• Minimum		1.3	5.2	53	-	-	-	-	-	-	-	-	-	-	-
• Maximum		420	1,200	1,300	-	-	-	-	-	-	-	-	-	-	-
• Mean		49.5	*	368	-	-	-	-	-	-	-	-	-	-	-
• 90% UCL		106	*	269	-	-	-	-	-	-	-	-	-	-	-
• 95% UCL		133	*	292	-	-	-	-	-	-	-	-	-	-	-
ESL															
• Residential Land Use		100	100	100	.5	-	1.7	9.3	-	.44	.44	2.4	-	.22	-
• Commercial/Industrial Use		110	500	500	.5	1	4	9.3	-	1.7	1.7	10	-	.74	-
• Construction Worker Exposure		900	2,700	28,000	240,000	1	50	43,000	-	12	12	70	-	2.7	-

Notes: ND = Not detected (below method detection limit)
* Statistical evaluation is not meaningful or not possible because not enough data is present.

VOC: (A)=Acetone, (C)=Carbon disulfide, (D)= 4,4' DDT, (T)=Toluene
Pesticides: (AC)=alpha-Chlordane, (GC)=gamma-Chlordane, (D)=4,4' DDD
PCBs: (P) =PCB-1254

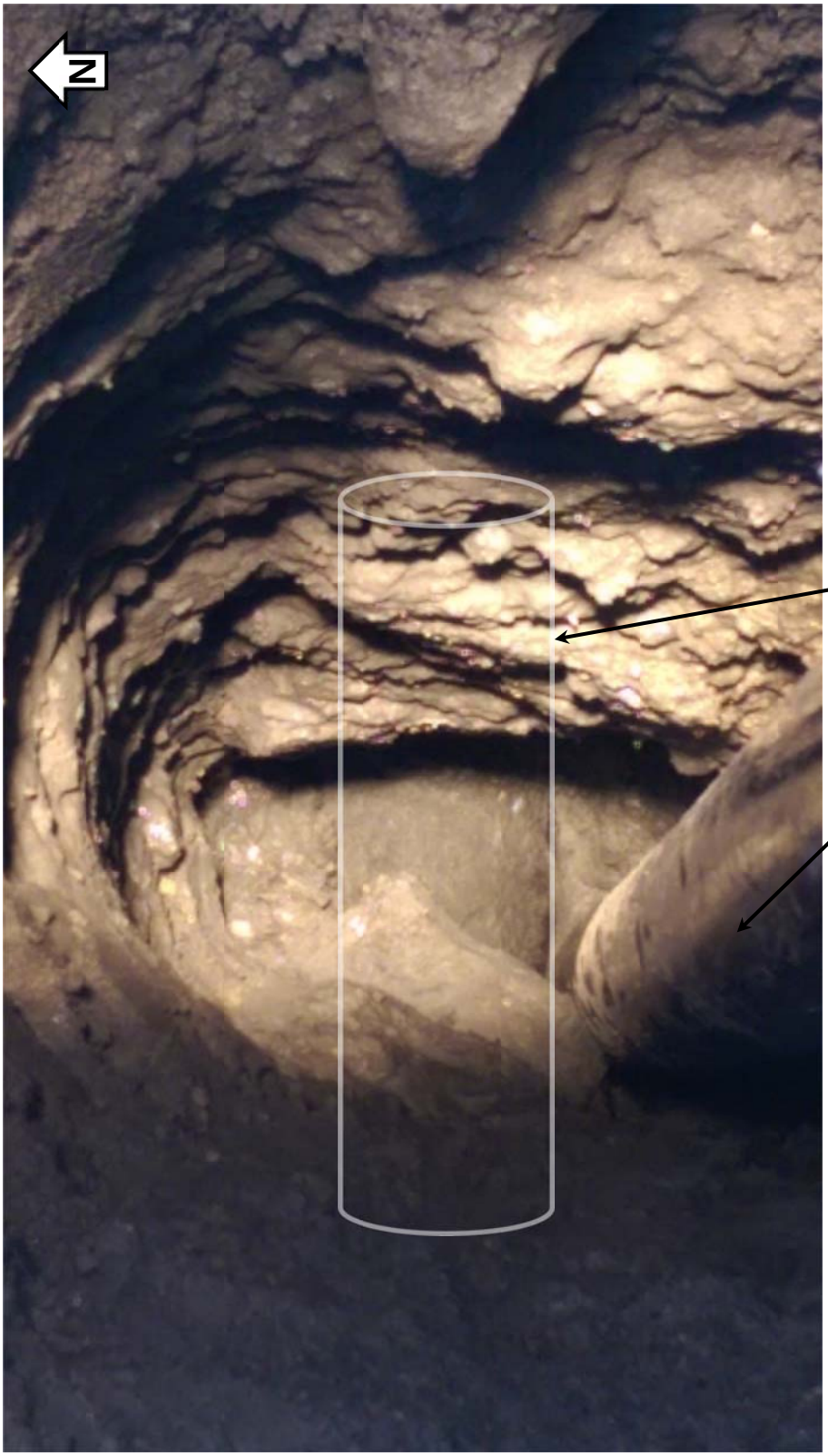
Table 6. Organic Compounds Test Results - Groundwater

Sampling Location	Depth (ft)	Total Petroleum Hydrocarbon (µg/L)			VOC	Pesticides	PCBs (µg/l)
		Diesel	Gasoline	Motor Oil			
A-15-005	5	130	ND	230	ND	ND	ND
ESL • Gross Contamination/Ceiling Value • Aquatic Habitat		2,500 640	5,000 500	2,500 640	- -	- -	16 0.014
Note: ND = Not detected (below method detection limit)							

APPENDIX A

PHOTOS FROM POTHOLING

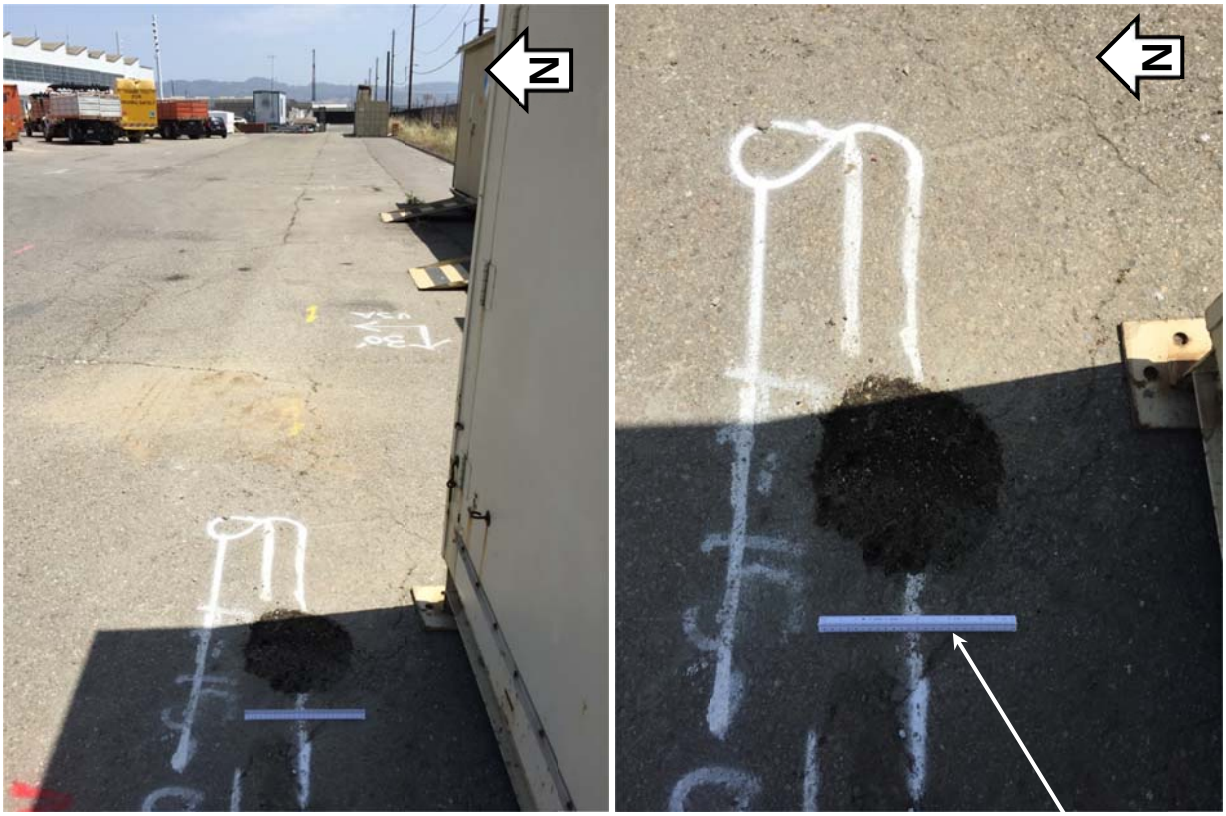
APPENDIX A - PHOTOS FROM POTHOLING



Pothole #1

Date: 5/5/15

APPENDIX A - PHOTOS FROM POTHOLING



12”Ruler

Pothole #1

Date: 5/5/15

APPENDIX A - PHOTOS FROM POTHOLING

Pothole #2

Date: 5/5/15

APPENDIX A - PHOTOS FROM POTHOLING

Pothole #2

Date: 5/5/15

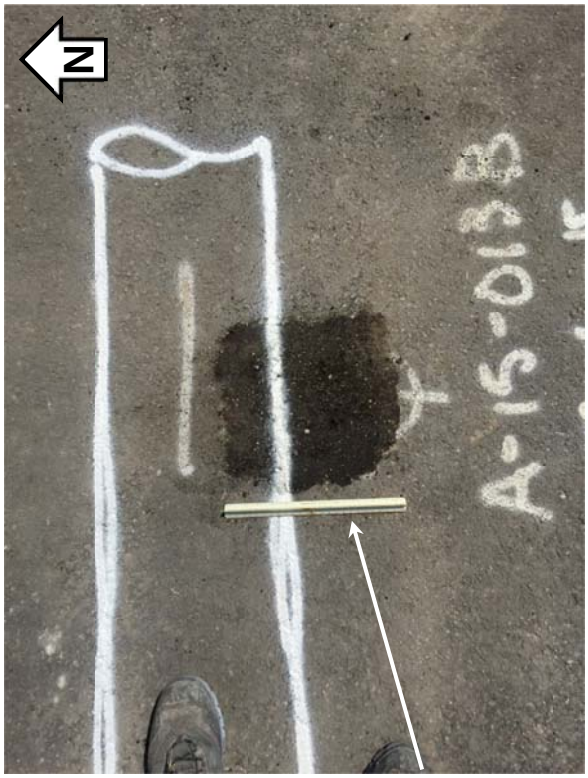
APPENDIX A - PHOTOS FROM POTHOLING

Pothole #3A

Date: 5/13/15

APPENDIX A - PHOTOS FROM POTHOLING

12” dia. PG&E steel gas line



12”Ruler

Pothole #3A

Date: 5/13/15

APPENDIX A - PHOTOS FROM POTHOLING

Potholes #4

Date: 5/5/15

APPENDIX A - PHOTOS FROM POTHOLING

Pothole #4 (Date: 5/6/15)

Rock boulder obstructions 18” to several feet in dimension

Pothole #4A (Date: 5/13/15)

Rock boulder obstruction at bottom, several feet in size

APPENDIX A - PHOTOS FROM POTHOLING

Pothole #4A (Date: 5/13/15)

Recovered FRAGMENTS of cobbles and boulders

Pothole #4B (Date: 5/13/15)

Rock boulder obstructions several feet in size

APPENDIX A - PHOTOS FROM POTHOLING

12” dia. PG&E steel gas line pre-marked by utility locator

Pothole #5 (Date: 5/28/15)

12” dia. PG&E steel gas line at 95” below top of 5.5” thick AC

APPENDIX A - PHOTOS FROM POTHOLING

12” dia. PG&E steel gas line

Pothole #5 (Date: 5/28/15)

APPENDIX B

ANALYTICAL TEST RESULTS

REPORT BY TESTAMERICA

AND CHAIN-OF-CUSTODY FORMS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-64632-3
Client Project/Site: IERBYS

For:
Earth Mechanics Incorporated
17800 Newhope Street, Suite B
Fountain Valley, California 92708

Attn: Mike Kapuskar

Authorized for release by:
6/23/2015 4:48:37 PM

Heather Clark, Project Manager I
(949)261-1022
heather.clark@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 9
Client Sample Results 17
Surrogate Summary 111
QC Sample Results 118
QC Association Summary 172
Lab Chronicle 186
Certification Summary 199
Method Summary 200
Sample Summary 201
Chain of Custody 202
Receipt Checklists 206

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-64632-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-64632-1

Comments
No additional comments.

Receipt
The samples were received on 5/7/2015 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 181271 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: A-15-001-1.5 (720-64632-1), A-15-001-3 (720-64632-3), A-15-001-6 (720-64632-4), A-15-002-1.5 (720-64632-5), A-15-002-2 (720-64632-6), A-15-002-3 (720-64632-7), A-15-003-2 (720-64632-9), A-15-003-6 (720-64632-11), A-15-004-2 (720-64632-13), A-15-005-1.5 (720-64632-15) and A-15-005-6 (720-64632-18).

Method(s) 8260B: Samples showed no internal standard or surrogate recoveries due to possible matrix interferance. Some particles were found between the vial and cap after vial inspection was performed. Vials were provided with 10ml of DI water in them.
A-15-002-2 (720-64632-6), A-15-003-2 (720-64632-9), A-15-003-6 (720-64632-11) and A-15-005-6 (720-64632-18)

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 181271 recovered outside control limits for the following analytes: vinyl acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 181341 recovered above the upper control limit for Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: A-15-002-2 (720-64632-6), A-15-002-3 (720-64632-7), A-15-003-2 (720-64632-9), A-15-006-1.5 (720-64632-20), A-15-006-2 (720-64632-21), A-15-006-3 (720-64632-22), A-15-007-3 (720-64632-25), A-15-008-1 (720-64632-27) and A-15-009-2 (720-64632-31).

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 181341 recovered outside control limits for the following analytes: Vinyl Acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 181390 recovered above the upper control limit for Vinyl AcetateThe samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: A-15-010-1 (720-64632-33) and A-15-010-3 (720-64632-35).

Method(s) 8260B: Samples showed no internal standard or surrogate recoveries due to possible matrix interferance. Some particles were found between the vial and cap after vial inspection was performed. Vials were provided with 10ml of DI water in them.

A-15-010-2 (720-64632-34) and A-15-011-3 (720-64632-38)

Method(s) 8260B: Samples showed no internal standard or surrogate recoveries due to possible matrix interferance. Some particles were found between the vial and cap after vial inspection was performed. Vials were provided with 10ml of DI water in them.
A-15-009-1 (720-64632-30)

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 181428 recovered outside control limits for the following analytes: Vinyl Acetate. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Surrogate recovery for the following sample was outside control limits: A-15-003-2 (720-64632-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Job ID: 720-64632-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 181428> recovered above the upper control limit for 2,2-dichloropropane and Vinyl Acetate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: A-15-005-6 (720-64632-18), A-15-009-1 (720-64632-30), A-15-009-3 (720-64632-32), A-15-010-2 (720-64632-34), A-15-011-2 (720-64632-37) and A-15-011-3 (720-64632-38).

Method(s) 8260B: Internal standard (ISTD) response for the following sample was outside control limits: A-15-009-3 (720-64632-32). The sample was re-analyzed with concurring results, and the second set of data has been reported.

Method(s) 8260B: The following sample were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: A-15-005-6GW (720-64632-19).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method(s) 8015B: The following sample required a dilution due to the nature of the sample matrix: A-15-006-1.5 (720-64632-20). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The continuing calibration verification (CCV) associated with batch 181383 recovered above the upper control limit for C24-C36. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (MB 720-181383/1-A).

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: A-15-003-6 (720-64632-11) and A-15-009-2 (720-64632-31). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8015B: The following samples required a dilution due to the nature of the sample matrix: A-15-008-1 (720-64632-27) and A-15-010-1 (720-64632-33). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: A-15-005-1.5 (720-64632-15), A-15-009-1 (720-64632-30) and A-15-009-2 (720-64632-31).

Method(s) 8082: The following sample contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor: A-15-009-1 (720-64632-30).

Method(s) 8082: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: A-15-002-1.5 (720-64632-5), A-15-002-2 (720-64632-6), A-15-002-3 (720-64632-7), A-15-003-2 (720-64632-9), A-15-003-6 (720-64632-11), A-15-011-2 (720-64632-37), A-15-011-3 (720-64632-38), (LCS 720-181484/2-A), (LCS 720-181540/2-A), (MB 720-181484/1-A), (MB 720-181540/1-A), (720-64632-E-5-C MS), (720-64632-E-5-D MSD), (720-64639-A-3-J), (720-64639-A-3-H MS) and (720-64639-A-3-I MSD).

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for181540 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for 181484 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081A: The %RPD between the primary and confirmation column exceeded 40% for DDD for the following samples: A-15-009-1 (720-64632-30). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8081A: The %RPD between the primary and confirmation column exceeded 40% for a-chlordane for the following samples:

Job ID: 720-64632-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

(720-64634-A-15-I). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8081A: The matrix spike / matrix spike duplicate precision for #181486was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) precision for prep batch 181473 was outside control limits. Sample non-homogeneity is suspected.

Method(s) 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep batch 181473 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for prep batch 181494 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 181564 was outside control limits: (720-64736-A-1-C SD)

Method(s) 6010B: The following samples was diluted due to the abundance of non-target analyte Fe: A-15-001-6 (720-64632-4) and A-15-002-1.5 (720-64632-5). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following samples was diluted due to the abundance of non-target analyte Fe: A-15-003-6 (720-64632-11), A-15-004-2 (720-64632-13), A-15-004-3 (720-64632-14) and A-15-008-2 (720-64632-28). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for prep 181498 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 181635 was outside control limits: (720-64632-E-9-F SD)

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analyte Fe: A-15-009-2 (720-64632-31). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The following sample was diluted due to the abundance of non-target analyte Fe: A-15-010-3 (720-64632-35). Elevated reporting limits (RLs) are provided.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for prep batch 181506 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method(s) 6010B: The serial dilution performed for the following sample associated with batch 181639 was outside control limits: (720-64632-A-29-C SD)

Method(s) 6010B: The matrix spike duplicate (MSD) recoveries and precision for prep batch 181576 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Job ID: 720-64632-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

Method(s) 3510C: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: EPA 8015B: The sample is less than 800 mL.

Method(s) 3510C: EPA 8015B: The sample has sediment, possible analyte loss due to the sediment.

Method(s) 3510C: EPA 8015B: A matrix spike/matrix spike duplicate was not included in batch 181383 because insufficient sample volume was available.

Method(s) 3510C: EPA 8081A: A matrix spike/matrix spike duplicate was not included in batch 181441 because insufficient sample volume was available.

Method(s) 3510C: EPA 8082: A matrix spike/matrix spike duplicate was not included in batch 181442 because insufficient sample volume was available.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Job ID: 720-64632-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-64632-2

Comments
No additional comments.

Receipt
The samples were received on 5/7/2015 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 720-64632-3

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-64632-3

Comments
No additional comments.

Receipt
The samples were received on 5/7/2015 3:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry

Job ID: 720-64632-3 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-001-1.5 — Lab Sample ID: 720-64632-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	4.5		0.99		mg/Kg	1		8015B	Total/NA
Lead	10		1.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-001-2 — Lab Sample ID: 720-64632-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.3		1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-001-3 — Lab Sample ID: 720-64632-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	70		50		mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C9-C24]	9.3		1.0		mg/Kg	1		8015B	Total/NA
Lead	8.5		1.8		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-001-6 — Lab Sample ID: 720-64632-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	13		3.0		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Motor Oil Range Organics [C24-C36]	90		50		mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C9-C24]	5.5		1.0		mg/Kg	1		8015B	Total/NA
Arsenic	6.8		3.6		mg/Kg	4		6010B	Total/NA
Barium	43		1.8		mg/Kg	4		6010B	Total/NA
Chromium	57		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.73		mg/Kg	4		6010B	Total/NA
Copper	26		5.5		mg/Kg	4		6010B	Total/NA
Lead	5.2		1.8		mg/Kg	4		6010B	Total/NA
Nickel	56		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	47		1.8		mg/Kg	4		6010B	Total/NA
Zinc	43		5.5		mg/Kg	4		6010B	Total/NA
Mercury	0.065		0.0090		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-002-1.5 — Lab Sample ID: 720-64632-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	1.3		1.0		mg/Kg	1		8015B	Total/NA
Arsenic	2.9		2.2		mg/Kg	4		6010B	Total/NA
Barium	71		1.1		mg/Kg	4		6010B	Total/NA
Chromium	42		1.1		mg/Kg	4		6010B	Total/NA
Cobalt	7.2		0.44		mg/Kg	4		6010B	Total/NA
Copper	15		3.3		mg/Kg	4		6010B	Total/NA
Lead	4.1		1.1		mg/Kg	4		6010B	Total/NA
Nickel	51		1.1		mg/Kg	4		6010B	Total/NA
Vanadium	24		1.1		mg/Kg	4		6010B	Total/NA
Zinc	29		3.3		mg/Kg	4		6010B	Total/NA
Mercury	0.042		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-002-2 — Lab Sample ID: 720-64632-6

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-002-2 (Continued) — Lab Sample ID: 720-64632-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49		43		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C9-C24]	5.0		0.99		mg/Kg	1		8015B	Total/NA
Lead	6.0		1.5		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-002-3 — Lab Sample ID: 720-64632-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	53		50		mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C9-C24]	2.9		1.0		mg/Kg	1		8015B	Total/NA
Lead	3.7		1.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-003-1.5 — Lab Sample ID: 720-64632-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	180		1.5		mg/Kg	4		6010B	Total/NA
Lead	0.53		0.050		mg/L	1		6010B	TCLP
Lead	6.5		0.050		mg/L	1		6010B	STLC Citrate

Client Sample ID: A-15-003-2 — Lab Sample ID: 720-64632-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	5200		170		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C9-C24]	300		3.0		mg/Kg	3		8015B	Total/NA
Lead	180		1.9		mg/Kg	4		6010B	Total/NA
Lead	0.63		0.050		mg/L	1		6010B	TCLP
Lead	1.8		0.050		mg/L	1		6010B	STLC Citrate

Client Sample ID: A-15-003-3 — Lab Sample ID: 720-64632-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	31		1.2		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-003-6 — Lab Sample ID: 720-64632-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics (GRO) -C5-C12	1200000		84000		ug/Kg	1000		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C9-C24]	420		5.0		mg/Kg	5		8015B	Total/NA
Arsenic	4.4		2.7		mg/Kg	4		6010B	Total/NA
Barium	220		1.4		mg/Kg	4		6010B	Total/NA
Chromium	50		1.4		mg/Kg	4		6010B	Total/NA
Cobalt	9.3		0.55		mg/Kg	4		6010B	Total/NA
Copper	27		4.1		mg/Kg	4		6010B	Total/NA
Lead	93		1.4		mg/Kg	4		6010B	Total/NA
Nickel	63		1.4		mg/Kg	4		6010B	Total/NA
Vanadium	26		1.4		mg/Kg	4		6010B	Total/NA
Zinc	51		4.1		mg/Kg	4		6010B	Total/NA
Lead	6.5	H	0.050		mg/L	1		6010B	STLC Citrate
Mercury	0.076		0.0094		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-004-1 — Lab Sample ID: 720-64632-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		1.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-004-2 — Lab Sample ID: 720-64632-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	6.7		1.0		mg/Kg	1		8015B	Total/NA
Arsenic	6.8		2.9		mg/Kg	4		6010B	Total/NA
Barium	24		1.4		mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.29		mg/Kg	4		6010B	Total/NA
Chromium	47		1.4		mg/Kg	4		6010B	Total/NA
Cobalt	13		0.58		mg/Kg	4		6010B	Total/NA
Copper	24		4.3		mg/Kg	4		6010B	Total/NA
Lead	8.0		1.4		mg/Kg	4		6010B	Total/NA
Nickel	50		1.4		mg/Kg	4		6010B	Total/NA
Vanadium	37		1.4		mg/Kg	4		6010B	Total/NA
Zinc	55		4.3		mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-004-3 — Lab Sample ID: 720-64632-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7		3.0		mg/Kg	4		6010B	Total/NA
Barium	20		1.5		mg/Kg	4		6010B	Total/NA
Chromium	44		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	8.0		0.59		mg/Kg	4		6010B	Total/NA
Copper	22		4.4		mg/Kg	4		6010B	Total/NA
Lead	5.1		1.5		mg/Kg	4		6010B	Total/NA
Nickel	41		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	36		1.5		mg/Kg	4		6010B	Total/NA
Zinc	42		4.4		mg/Kg	4		6010B	Total/NA
Mercury	0.045		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-005-1.5 — Lab Sample ID: 720-64632-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	5.4		1.0		mg/Kg	1		8015B	Total/NA
Lead	11		1.9		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-005-2 — Lab Sample ID: 720-64632-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.2		1.3		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-005-3 — Lab Sample ID: 720-64632-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.0		1.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-005-6 — Lab Sample ID: 720-64632-18

This Detection Summary does not include radiochemical test results.

Client Sample ID: A-15-005-6 (Continued) — Lab Sample ID: 720-64632-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	8.4		3.7		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Diesel Range Organics [C9-C24]	2.4		0.99		mg/Kg	1		8015B	Total/NA
Arsenic	2.9		2.5		mg/Kg	4		6010B	Total/NA
Barium	10		1.2		mg/Kg	4		6010B	Total/NA
Chromium	19		1.2		mg/Kg	4		6010B	Total/NA
Cobalt	4.0		0.49		mg/Kg	4		6010B	Total/NA
Copper	5.3		3.7		mg/Kg	4		6010B	Total/NA
Lead	2.0		1.2		mg/Kg	4		6010B	Total/NA
Molybdenum	0.46		0.31		mg/Kg	1		6010B	Total/NA
Nickel	13		1.2		mg/Kg	4		6010B	Total/NA
Vanadium	12		1.2		mg/Kg	4		6010B	Total/NA
Zinc	12		3.7		mg/Kg	4		6010B	Total/NA
Mercury	0.046		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-005-6GW — Lab Sample ID: 720-64632-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	130		63		ug/L	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	230		130		ug/L	1		8015B	Total/NA

Client Sample ID: A-15-006-1.5 — Lab Sample ID: 720-64632-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	600		250		mg/Kg	5		8015B	Total/NA
Diesel Range Organics [C9-C24]	58		5.0		mg/Kg	5		8015B	Total/NA
Lead	83		1.4		mg/Kg	4		6010B	Total/NA
Lead	1.8	H	0.050		mg/L	1		6010B	STLC Citrate

Client Sample ID: A-15-006-2 — Lab Sample ID: 720-64632-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	1.5		1.0		mg/Kg	1		8015B	Total/NA
Lead	4.8		1.7		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-006-3 — Lab Sample ID: 720-64632-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		3.1		mg/Kg	4		6010B	Total/NA
Barium	12		1.5		mg/Kg	4		6010B	Total/NA
Beryllium	0.38		0.31		mg/Kg	4		6010B	Total/NA
Cadmium	0.20		0.096		mg/Kg	1		6010B	Total/NA
Chromium	29		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.62		mg/Kg	4		6010B	Total/NA
Copper	13		4.6		mg/Kg	4		6010B	Total/NA
Lead	8.4		1.5		mg/Kg	4		6010B	Total/NA
Nickel	53		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	22		1.5		mg/Kg	4		6010B	Total/NA
Zinc	40		4.6		mg/Kg	4		6010B	Total/NA
Mercury	0.051		0.0095		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-007-1 — Lab Sample ID: 720-64632-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	58		1.2		mg/Kg	4		6010B	Total/NA
Lead	4.7	H	0.050		mg/L	1		6010B	STLC Citrate

Client Sample ID: A-15-007-2 — Lab Sample ID: 720-64632-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	33		1.1		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-007-3 — Lab Sample ID: 720-64632-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	250		150		mg/Kg	3		8015B	Total/NA
Diesel Range Organics [C9-C24]	8.8		3.0		mg/Kg	3		8015B	Total/NA
Lead	13		1.7		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-007-6 — Lab Sample ID: 720-64632-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.6		0.53		mg/Kg	1		6010B	Total/NA
Barium	17		1.1		mg/Kg	4		6010B	Total/NA
Chromium	19		1.1		mg/Kg	4		6010B	Total/NA
Cobalt	4.1		0.43		mg/Kg	4		6010B	Total/NA
Copper	5.1		3.2		mg/Kg	4		6010B	Total/NA
Lead	3.2		1.1		mg/Kg	4		6010B	Total/NA
Nickel	13		1.1		mg/Kg	4		6010B	Total/NA
Vanadium	13		1.1		mg/Kg	4		6010B	Total/NA
Zinc	15		3.2		mg/Kg	4		6010B	Total/NA
Mercury	0.059		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-008-1 — Lab Sample ID: 720-64632-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	1300		500		mg/Kg	10		8015B	Total/NA
Diesel Range Organics [C9-C24]	41		10		mg/Kg	10		8015B	Total/NA
4,4'-DDT	13		9.9		ug/Kg	5		8081A	Total/NA
Arsenic	4.8		3.2		mg/Kg	4		6010B	Total/NA
Barium	78		1.6		mg/Kg	4		6010B	Total/NA
Cadmium	0.24		0.10		mg/Kg	1		6010B	Total/NA
Chromium	32		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	7.7		0.64		mg/Kg	4		6010B	Total/NA
Copper	38		4.8		mg/Kg	4		6010B	Total/NA
Lead	63		1.6		mg/Kg	4		6010B	Total/NA
Molybdenum	0.46		0.40		mg/Kg	1		6010B	Total/NA
Nickel	37		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	30		1.6		mg/Kg	4		6010B	Total/NA
Zinc	73		4.8		mg/Kg	4		6010B	Total/NA
Lead	1.9	H	0.050		mg/L	1		6010B	STLC Citrate
Mercury	0.31		0.010		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-008-2 — Lab Sample ID: 720-64632-28

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-008-2 (Continued) — Lab Sample ID: 720-64632-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.1		mg/Kg	4		6010B	Total/NA
Barium	100		1.5		mg/Kg	4		6010B	Total/NA
Chromium	46		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	9.0		0.61		mg/Kg	4		6010B	Total/NA
Copper	23		4.6		mg/Kg	4		6010B	Total/NA
Lead	6.4		1.5		mg/Kg	4		6010B	Total/NA
Nickel	56		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	29		1.5		mg/Kg	4		6010B	Total/NA
Zinc	39		4.6		mg/Kg	4		6010B	Total/NA
Mercury	0.044		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-008-3 — Lab Sample ID: 720-64632-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	49		1.4		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-009-1 — Lab Sample ID: 720-64632-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	48		36		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Toluene	14		3.6		ug/Kg	1		8260B/CA_LUFT MS	Total/NA
Motor Oil Range Organics [C24-C36]	420		150		mg/Kg	3		8015B	Total/NA
Diesel Range Organics [C9-C24]	59		3.0		mg/Kg	3		8015B	Total/NA
4,4'-DDD	3.7	p	2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	4.3		2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	4.5		2.0		ug/Kg	1		8081A	Total/NA
PCB-1254	110		49		ug/Kg	1		8082	Total/NA
Lead	37000		32		mg/Kg	100		6010B	Total/NA
Lead	5.8		0.050		mg/L	1		6010B	TCLP
Lead	100		0.050		mg/L	1		6010B	STLC Citrate

Client Sample ID: A-15-009-2 — Lab Sample ID: 720-64632-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	330		250		mg/Kg	5		8015B	Total/NA
Diesel Range Organics [C9-C24]	28		5.0		mg/Kg	5		8015B	Total/NA
4,4'-DDD	7.6		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	5.9		2.9		mg/Kg	4		6010B	Total/NA
Barium	89		1.5		mg/Kg	4		6010B	Total/NA
Beryllium	0.37		0.29		mg/Kg	4		6010B	Total/NA
Chromium	78		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.58		mg/Kg	4		6010B	Total/NA
Copper	59		4.4		mg/Kg	4		6010B	Total/NA
Lead	98		1.5		mg/Kg	4		6010B	Total/NA
Nickel	45		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	37		1.5		mg/Kg	4		6010B	Total/NA
Zinc	91		4.4		mg/Kg	4		6010B	Total/NA
Mercury	0.41		0.0085		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-009-3 — Lab Sample ID: 720-64632-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	1.5		0.99		mg/Kg	1		8015B	Total/NA
Arsenic	1.5		0.52		mg/Kg	1		6010B	Total/NA
Barium	28		1.0		mg/Kg	4		6010B	Total/NA
Beryllium	0.28		0.21		mg/Kg	4		6010B	Total/NA
Chromium	10		1.0		mg/Kg	4		6010B	Total/NA
Cobalt	4.0		0.41		mg/Kg	4		6010B	Total/NA
Copper	11		3.1		mg/Kg	4		6010B	Total/NA
Lead	11		1.0		mg/Kg	4		6010B	Total/NA
Nickel	14		1.0		mg/Kg	4		6010B	Total/NA
Vanadium	18		1.0		mg/Kg	4		6010B	Total/NA
Zinc	26		3.1		mg/Kg	4		6010B	Total/NA
Mercury	0.42		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-010-1 — Lab Sample ID: 720-64632-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	640		250		mg/Kg	5		8015B	Total/NA
Diesel Range Organics [C9-C24]	31		5.0		mg/Kg	5		8015B	Total/NA
Arsenic	4.7		2.9		mg/Kg	4		6010B	Total/NA
Barium	58		1.5		mg/Kg	4		6010B	Total/NA
Chromium	31		1.5		mg/Kg	4		6010B	Total/NA
Cobalt	8.1		0.58		mg/Kg	4		6010B	Total/NA
Copper	39		4.4		mg/Kg	4		6010B	Total/NA
Lead	97		1.5		mg/Kg	4		6010B	Total/NA
Nickel	32		1.5		mg/Kg	4		6010B	Total/NA
Vanadium	31		1.5		mg/Kg	4		6010B	Total/NA
Zinc	56		4.4		mg/Kg	4		6010B	Total/NA
Lead	4.5	H	0.050		mg/L	1		6010B	STLC Citrate
Mercury	0.47		0.0087		mg/Kg	1		7471A	Total/NA

Client Sample ID: A-15-010-2 — Lab Sample ID: 720-64632-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	4.0		0.99		mg/Kg	1		8015B	Total/NA
Lead	8.8		1.7		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-010-3 — Lab Sample ID: 720-64632-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C9-C24]	2.1		1.0		mg/Kg	1		8015B	Total/NA
Arsenic	6.0		3.4		mg/Kg	4		6010B	Total/NA
Barium	23		1.7		mg/Kg	4		6010B	Total/NA
Chromium	46		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	10		0.67		mg/Kg	4		6010B	Total/NA
Copper	19		5.0		mg/Kg	4		6010B	Total/NA
Lead	5.9		1.7		mg/Kg	4		6010B	Total/NA
Nickel	51		1.7		mg/Kg	4		6010B	Total/NA
Vanadium	38		1.7		mg/Kg	4		6010B	Total/NA
Zinc	43		5.0		mg/Kg	4		6010B	Total/NA
Mercury	0.043		0.0086		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-011-1.5 — Lab Sample ID: 720-64632-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		1.6		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-011-2 — Lab Sample ID: 720-64632-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Motor Oil Range Organics [C24-C36]	68		49		mg/Kg	1		8015B	Total/NA
Diesel Range Organics [C9-C24]	11		0.99		mg/Kg	1		8015B	Total/NA
Lead	11		1.6		mg/Kg	4		6010B	Total/NA

Client Sample ID: A-15-011-3 — Lab Sample ID: 720-64632-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.5		1.3		mg/Kg	4		6010B	Total/NA

Client Sample ID: EB-1 — Lab Sample ID: 720-64632-39

No Detections.

Client Sample ID: EB-2 — Lab Sample ID: 720-64632-40

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-001-1.5

Date Collected: 05/05/15 09:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Acetone	ND		37		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Benzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Dichlorobromomethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Bromobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Chlorobromomethane	ND		15		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Bromoform	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Bromomethane	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
2-Butanone (MEK)	ND		37		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
n-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
sec-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
tert-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Carbon disulfide	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Carbon tetrachloride	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Chlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Chloroethane	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Chloroform	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Chloromethane	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
2-Chlorotoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
4-Chlorotoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Chlorodibromomethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,3-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,4-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,3-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2-Dibromo-3-Chloropropane	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Ethylene Dibromide	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Dibromomethane	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Dichlorodifluoromethane	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1-Dichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2-Dichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
cis-1,2-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
trans-1,2-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
cis-1,3-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
trans-1,3-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Ethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Hexachlorobutadiene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
2-Hexanone	ND		37		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Isopropylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
4-Isopropyltoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Methylene Chloride	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
4-Methyl-2-pentanone (MIBK)	ND		37		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Naphthalene	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
N-Propylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Styrene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1,1,2-Tetrachloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1

Client Sample ID: A-15-001-1.5

Date Collected: 05/05/15 09:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-1

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Tetrachloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Toluene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2,3-Trichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2,4-Trichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1,1-Trichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1,2-Trichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Trichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Trichlorofluoromethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2,3-Trichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,2,4-Trimethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
1,3,5-Trimethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Vinyl acetate	ND	*	15		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Vinyl chloride	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Xylenes, Total	ND		7.4		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
2,2-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/08/15 14:51	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/07/15 21:15	05/08/15 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*	*05/07/15 21:15*	*05/08/15 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*	*05/07/15 21:15*	*05/08/15 14:51*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*05/07/15 21:15*	*05/08/15 14:51*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		05/08/15 15:07	05/11/15 17:23	1
Diesel Range Organics [C9-C24]	**4.5**		0.99		mg/Kg		05/08/15 15:07	05/11/15 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*117*		*40 - 130*	*05/08/15 15:07*	*05/11/15 17:23*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1

Client Sample ID: A-15-001-1.5

Date Collected: 05/05/15 09:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-1

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*101*		*57 - 122*	*05/12/15 17:02*	*05/14/15 05:55*	*1*
DCB Decachlorobiphenyl	*99*		*21 - 136*	*05/12/15 17:02*	*05/14/15 05:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/13/15 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*45 - 132*	*05/12/15 17:02*	*05/13/15 15:45*	*1*
DCB Decachlorobiphenyl	*94*		*42 - 146*	*05/12/15 17:02*	*05/13/15 15:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		1.4		mg/Kg		05/12/15 18:19	05/13/15 12:31	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-001-2

Date Collected: 05/05/15 09:25
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-2

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.3		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:36	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-001-3

Date Collected: 05/05/15 09:48
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Acetone	ND		42		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Benzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Dichlorobromomethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Bromobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Chlorobromomethane	ND		17		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Bromoform	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Bromomethane	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
2-Butanone (MEK)	ND		42		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
n-Butylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
sec-Butylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
tert-Butylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Carbon disulfide	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Carbon tetrachloride	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Chlorobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Chloroethane	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Chloroform	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Chloromethane	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
2-Chlorotoluene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
4-Chlorotoluene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Chlorodibromomethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2-Dichlorobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,3-Dichlorobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,4-Dichlorobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,3-Dichloropropane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1-Dichloropropene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2-Dibromo-3-Chloropropane	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Ethylene Dibromide	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Dibromomethane	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Dichlorodifluoromethane	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1-Dichloroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2-Dichloroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1-Dichloroethene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
cis-1,2-Dichloroethene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
trans-1,2-Dichloroethene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2-Dichloropropane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
cis-1,3-Dichloropropene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
trans-1,3-Dichloropropene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Ethylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Hexachlorobutadiene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
2-Hexanone	ND		42		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Isopropylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
4-Isopropyltoluene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Methylene Chloride	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
4-Methyl-2-pentanone (MIBK)	ND		42		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Naphthalene	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
N-Propylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Styrene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1,1,2-Tetrachloroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1

Client Sample ID: A-15-001-3

Date Collected: 05/05/15 09:48
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-3

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Tetrachloroethene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Toluene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2,3-Trichlorobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2,4-Trichlorobenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1,1-Trichloroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1,2-Trichloroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Trichloroethene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Trichlorofluoromethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2,3-Trichloropropane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,2,4-Trimethylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
1,3,5-Trimethylbenzene	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Vinyl acetate	ND	*	17		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Vinyl chloride	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Xylenes, Total	ND		8.4		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
2,2-Dichloropropane	ND		4.2		ug/Kg		05/07/15 21:15	05/08/15 15:19	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		05/07/15 21:15	05/08/15 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*05/07/15 21:15*	*05/08/15 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*	*05/07/15 21:15*	*05/08/15 15:19*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*05/07/15 21:15*	*05/08/15 15:19*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**70**		50		mg/Kg		05/08/15 15:07	05/12/15 12:10	1
Diesel Range Organics [C9-C24]	**9.3**		1.0		mg/Kg		05/08/15 15:07	05/12/15 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*79*		*40 - 130*	*05/08/15 15:07*	*05/12/15 12:10*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Dieldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Endrin aldehyde	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Endrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Endrin ketone	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Heptachlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Heptachlor epoxide	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
4,4'-DDT	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
4,4'-DDE	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
4,4'-DDD	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Endosulfan I	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Endosulfan II	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
alpha-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
beta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1

Client Sample ID: A-15-001-3

Date Collected: 05/05/15 09:48
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-3

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Endosulfan sulfate	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Methoxychlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
alpha-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1
gamma-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*102*		*57 - 122*	*05/12/15 17:02*	*05/14/15 06:12*	*1*
DCB Decachlorobiphenyl	*94*		*21 - 136*	*05/12/15 17:02*	*05/14/15 06:12*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1
PCB-1221	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1
PCB-1232	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1
PCB-1242	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1
PCB-1248	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1
PCB-1254	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1
PCB-1260	ND		48		ug/Kg		05/12/15 17:02	05/13/15 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*45 - 132*	*05/12/15 17:02*	*05/13/15 18:49*	*1*
DCB Decachlorobiphenyl	*94*		*42 - 146*	*05/12/15 17:02*	*05/13/15 18:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.5**		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:50	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-001-6

Date Collected: 05/05/15 09:43
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Acetone	ND		30		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Benzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Dichlorobromomethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Bromobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Chlorobromomethane	ND		12		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Bromoform	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Bromomethane	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
2-Butanone (MEK)	ND		30		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
n-Butylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
sec-Butylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
tert-Butylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Carbon disulfide	**13**		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Carbon tetrachloride	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Chlorobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Chloroethane	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Chloroform	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Chloromethane	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
2-Chlorotoluene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
4-Chlorotoluene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Chlorodibromomethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2-Dichlorobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,3-Dichlorobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,4-Dichlorobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,3-Dichloropropane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1-Dichloropropene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2-Dibromo-3-Chloropropane	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Ethylene Dibromide	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Dibromomethane	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Dichlorodifluoromethane	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1-Dichloroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2-Dichloroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1-Dichloroethene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
cis-1,2-Dichloroethene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
trans-1,2-Dichloroethene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2-Dichloropropane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
cis-1,3-Dichloropropene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
trans-1,3-Dichloropropene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Ethylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Hexachlorobutadiene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
2-Hexanone	ND		30		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Isopropylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
4-Isopropyltoluene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Methylene Chloride	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
4-Methyl-2-pentanone (MIBK)	ND		30		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Naphthalene	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
N-Propylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Styrene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1,1,2-Tetrachloroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1

Client Sample ID: A-15-001-6

Date Collected: 05/05/15 09:43
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-4

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Tetrachloroethene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Toluene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2,3-Trichlorobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2,4-Trichlorobenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1,1-Trichloroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1,2-Trichloroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Trichloroethene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Trichlorofluoromethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2,3-Trichloropropane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,2,4-Trimethylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
1,3,5-Trimethylbenzene	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Vinyl acetate	ND	*	12		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Vinyl chloride	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Xylenes, Total	ND		5.9		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
2,2-Dichloropropane	ND		3.0		ug/Kg		05/07/15 21:15	05/08/15 15:48	1
Gasoline Range Organics (GRO) -C5-C12	ND		150		ug/Kg		05/07/15 21:15	05/08/15 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*05/07/15 21:15*	*05/08/15 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*	*05/07/15 21:15*	*05/08/15 15:48*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*05/07/15 21:15*	*05/08/15 15:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**90**		50		mg/Kg		05/08/15 15:07	05/11/15 16:59	1
Diesel Range Organics [C9-C24]	**5.5**		1.0		mg/Kg		05/08/15 15:07	05/11/15 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*128*		*40 - 130*	*05/08/15 15:07*	*05/11/15 16:59*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1

Client Sample ID: A-15-001-6

Date Collected: 05/05/15 09:43
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-4

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 06:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*111*		*57 - 122*	*05/12/15 17:02*	*05/14/15 06:30*	*1*
DCB Decachlorobiphenyl	*75*		*21 - 136*	*05/12/15 17:02*	*05/14/15 06:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/13/15 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*45 - 132*	*05/12/15 17:02*	*05/13/15 19:06*	*1*
DCB Decachlorobiphenyl	*88*		*42 - 146*	*05/12/15 17:02*	*05/13/15 19:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Arsenic	**6.8**		3.6		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Barium	**43**		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Beryllium	ND		0.36		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Cadmium	ND		0.45		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Chromium	**57**		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Cobalt	**11**		0.73		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Copper	**26**		5.5		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Lead	**5.2**		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Molybdenum	ND		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Nickel	**56**		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Selenium	ND		3.6		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Silver	ND		0.91		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Thallium	ND		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Vanadium	**47**		1.8		mg/Kg		05/12/15 18:19	05/13/15 12:55	4
Zinc	**43**		5.5		mg/Kg		05/12/15 18:19	05/13/15 12:55	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.065**		0.0090		mg/Kg		05/12/15 15:43	05/12/15 21:19	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-002-1.5

Date Collected: 05/05/15 10:27
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Acetone	ND		43		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Benzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Dichlorobromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Bromobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Chlorobromomethane	ND		17		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Bromoform	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Bromomethane	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
2-Butanone (MEK)	ND		43		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
n-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
sec-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
tert-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Carbon disulfide	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Carbon tetrachloride	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Chlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Chloroethane	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Chloroform	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Chloromethane	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
2-Chlorotoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
4-Chlorotoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Chlorodibromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,3-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2-Dibromo-3-Chloropropane	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Ethylene Dibromide	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Dibromomethane	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Dichlorodifluoromethane	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Ethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Hexachlorobutadiene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
2-Hexanone	ND		43		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Isopropylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
4-Isopropyltoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Methylene Chloride	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Naphthalene	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
N-Propylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Styrene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1

Client Sample ID: A-15-002-1.5

Date Collected: 05/05/15 10:27
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-5

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Tetrachloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Toluene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Trichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Trichlorofluoromethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Vinyl acetate	ND	*	17		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Vinyl chloride	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Xylenes, Total	ND		8.7		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
2,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/08/15 16:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/07/15 21:15	05/08/15 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*05/07/15 21:15*	*05/08/15 16:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*60 - 140*	*05/07/15 21:15*	*05/08/15 16:16*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*05/07/15 21:15*	*05/08/15 16:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/08/15 15:07	05/11/15 14:09	1
Diesel Range Organics [C9-C24]	**1.3**		1.0		mg/Kg		05/08/15 15:07	05/11/15 14:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*119*		*40 - 130*	*05/08/15 15:07*	*05/11/15 14:09*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
beta-BHC	ND	F2	2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-002-1.5

Date Collected: 05/05/15 10:27
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-5

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*57 - 122*	*05/12/15 17:02*	*05/14/15 05:37*	*1*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*05/12/15 17:02*	*05/14/15 05:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1
PCB-1260	ND	F1	50		ug/Kg		05/12/15 17:02	05/14/15 05:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*45 - 132*	*05/12/15 17:02*	*05/14/15 05:46*	*1*
DCB Decachlorobiphenyl	*84*		*42 - 146*	*05/12/15 17:02*	*05/14/15 05:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Arsenic	**2.9**		2.2		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Barium	**71**		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Beryllium	ND		0.22		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Cadmium	ND		0.27		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Chromium	**42**		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Cobalt	**7.2**		0.44		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Copper	**15**		3.3		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Lead	**4.1**		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Molybdenum	ND		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Nickel	**51**		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Selenium	ND		2.2		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Silver	ND		0.55		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Thallium	ND		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Vanadium	**24**		1.1		mg/Kg		05/12/15 18:19	05/13/15 12:59	4
Zinc	**29**		3.3		mg/Kg		05/12/15 18:19	05/13/15 12:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.0095		mg/Kg		05/12/15 15:43	05/12/15 21:22	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-002-2

Date Collected: 05/05/15 10:20
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Acetone	**49**		43		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Benzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Dichlorobromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Bromobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Chlorobromomethane	ND		17		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Bromoform	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Bromomethane	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
2-Butanone (MEK)	ND		43		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
n-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
sec-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
tert-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Carbon disulfide	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Carbon tetrachloride	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Chlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Chloroethane	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Chloroform	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Chloromethane	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
2-Chlorotoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
4-Chlorotoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Chlorodibromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,3-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2-Dibromo-3-Chloropropane	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Ethylene Dibromide	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Dibromomethane	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Dichlorodifluoromethane	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Ethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Hexachlorobutadiene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
2-Hexanone	ND		43		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Isopropylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
4-Isopropyltoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Methylene Chloride	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Naphthalene	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
N-Propylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Styrene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1

Client Sample ID: A-15-002-2

Date Collected: 05/05/15 10:20
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-6

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Tetrachloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Toluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Trichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Trichlorofluoromethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Vinyl acetate	ND	*	17		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Vinyl chloride	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Xylenes, Total	ND		8.6		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
2,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 11:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/07/15 21:15	05/11/15 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*05/07/15 21:15*	*05/11/15 11:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 140*	*05/07/15 21:15*	*05/11/15 11:58*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*05/07/15 21:15*	*05/11/15 11:58*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/08/15 15:07	05/11/15 14:33	1
Diesel Range Organics [C9-C24]	**5.0**		0.99		mg/Kg		05/08/15 15:07	05/11/15 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*05/08/15 15:07*	*05/11/15 14:33*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Dieldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Endrin aldehyde	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Endrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Endrin ketone	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Heptachlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Heptachlor epoxide	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
4,4'-DDT	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
4,4'-DDE	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
4,4'-DDD	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Endosulfan I	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Endosulfan II	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
alpha-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
beta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
delta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1

Client Sample ID: A-15-002-2

Date Collected: 05/05/15 10:20
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-6

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Methoxychlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
alpha-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1
gamma-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 06:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*57 - 122*	*05/12/15 17:02*	*05/14/15 06:47*	*1*
DCB Decachlorobiphenyl	*79*	*p*	*21 - 136*	*05/12/15 17:02*	*05/14/15 06:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1
PCB-1221	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1
PCB-1232	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1
PCB-1242	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1
PCB-1248	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1
PCB-1254	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1
PCB-1260	ND		48		ug/Kg		05/12/15 17:02	05/14/15 06:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*45 - 132*	*05/12/15 17:02*	*05/14/15 06:03*	*1*
DCB Decachlorobiphenyl	*80*		*42 - 146*	*05/12/15 17:02*	*05/14/15 06:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.0**		1.5		mg/Kg		05/12/15 18:19	05/13/15 13:04	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-002-3

Date Collected: 05/05/15 10:14
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Acetone	ND		46		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Benzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Dichlorobromomethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Bromobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Chlorobromomethane	ND		18		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Bromoform	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Bromomethane	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
2-Butanone (MEK)	ND		46		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
n-Butylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
sec-Butylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
tert-Butylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Carbon disulfide	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Carbon tetrachloride	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Chlorobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Chloroethane	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Chloroform	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Chloromethane	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
2-Chlorotoluene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
4-Chlorotoluene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Chlorodibromomethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2-Dichlorobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,3-Dichlorobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,4-Dichlorobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,3-Dichloropropane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1-Dichloropropene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2-Dibromo-3-Chloropropane	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Ethylene Dibromide	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Dibromomethane	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Dichlorodifluoromethane	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1-Dichloroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2-Dichloroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1-Dichloroethene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
cis-1,2-Dichloroethene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
trans-1,2-Dichloroethene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2-Dichloropropane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
cis-1,3-Dichloropropene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
trans-1,3-Dichloropropene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Ethylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Hexachlorobutadiene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
2-Hexanone	ND		46		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Isopropylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
4-Isopropyltoluene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Methylene Chloride	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
4-Methyl-2-pentanone (MIBK)	ND		46		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Naphthalene	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
N-Propylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Styrene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1,1,2-Tetrachloroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1

Client Sample ID: A-15-002-3

Date Collected: 05/05/15 10:14
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-7

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Tetrachloroethene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Toluene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2,3-Trichlorobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2,4-Trichlorobenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1,1-Trichloroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1,2-Trichloroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Trichloroethene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Trichlorofluoromethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2,3-Trichloropropane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,2,4-Trimethylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
1,3,5-Trimethylbenzene	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Vinyl acetate	ND	*	18		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Vinyl chloride	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Xylenes, Total	ND		9.2		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
2,2-Dichloropropane	ND		4.6		ug/Kg		05/07/15 21:15	05/11/15 12:28	1
Gasoline Range Organics (GRO) -C5-C12	ND		230		ug/Kg		05/07/15 21:15	05/11/15 12:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*84*		*45 - 131*	*05/07/15 21:15*	*05/11/15 12:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 140*	*05/07/15 21:15*	*05/11/15 12:28*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*05/07/15 21:15*	*05/11/15 12:28*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**53**		50		mg/Kg		05/08/15 15:07	05/11/15 14:58	1
Diesel Range Organics [C9-C24]	**2.9**		1.0		mg/Kg		05/08/15 15:07	05/11/15 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*98*		*40 - 130*	*05/08/15 15:07*	*05/11/15 14:58*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1

Client Sample ID: A-15-002-3

Date Collected: 05/05/15 10:14
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-7

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*57 - 122*	*05/12/15 17:02*	*05/14/15 07:05*	*1*
DCB Decachlorobiphenyl	*92*		*21 - 136*	*05/12/15 17:02*	*05/14/15 07:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*45 - 132*	*05/12/15 17:02*	*05/14/15 06:19*	*1*
DCB Decachlorobiphenyl	*82*		*42 - 146*	*05/12/15 17:02*	*05/14/15 06:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.7**		1.4		mg/Kg		05/12/15 18:19	05/13/15 13:09	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-003-1.5

Date Collected: 05/05/15 11:34
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-8

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180		1.5		mg/Kg		05/12/15 18:19	05/13/15 13:13	4

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.53		0.050		mg/L		05/30/15 14:57	06/01/15 20:24	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.5		0.050		mg/L		06/04/15 13:54	06/04/15 15:48	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-003-2

Date Collected: 05/05/15 11:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Acetone	ND		33		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Benzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Dichlorobromomethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Bromobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Chlorobromomethane	ND		13		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Bromoform	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Bromomethane	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
2-Butanone (MEK)	ND		33		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
n-Butylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
sec-Butylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
tert-Butylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Carbon disulfide	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Carbon tetrachloride	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Chlorobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Chloroethane	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Chloroform	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Chloromethane	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
2-Chlorotoluene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
4-Chlorotoluene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Chlorodibromomethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2-Dichlorobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,3-Dichlorobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,4-Dichlorobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,3-Dichloropropane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1-Dichloropropene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2-Dibromo-3-Chloropropane	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Ethylene Dibromide	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Dibromomethane	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Dichlorodifluoromethane	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1-Dichloroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2-Dichloroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1-Dichloroethene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
cis-1,2-Dichloroethene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
trans-1,2-Dichloroethene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2-Dichloropropane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
cis-1,3-Dichloropropene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
trans-1,3-Dichloropropene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Ethylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Hexachlorobutadiene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
2-Hexanone	ND		33		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Isopropylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
4-Isopropyltoluene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Methylene Chloride	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
4-Methyl-2-pentanone (MIBK)	ND		33		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Naphthalene	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
N-Propylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Styrene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1,1,2-Tetrachloroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1

Client Sample ID: A-15-003-2

Date Collected: 05/05/15 11:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-9

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Tetrachloroethene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Toluene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2,3-Trichlorobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2,4-Trichlorobenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1,1-Trichloroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1,2-Trichloroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Trichloroethene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Trichlorofluoromethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2,3-Trichloropropane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,2,4-Trimethylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
1,3,5-Trimethylbenzene	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Vinyl acetate	ND	*	13		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Vinyl chloride	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Xylenes, Total	ND		6.7		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
2,2-Dichloropropane	ND		3.3		ug/Kg		05/07/15 21:15	05/11/15 12:57	1
Gasoline Range Organics (GRO) -C5-C12	**5200**		170		ug/Kg		05/07/15 21:15	05/11/15 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*151*	*X*	*45 - 131*	*05/07/15 21:15*	*05/11/15 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*	*05/07/15 21:15*	*05/11/15 12:57*	*1*
Toluene-d8 (Surr)	*90*		*58 - 140*	*05/07/15 21:15*	*05/11/15 12:57*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		150		mg/Kg		05/08/15 15:07	05/12/15 15:06	3
Diesel Range Organics [C9-C24]	**300**		3.0		mg/Kg		05/08/15 15:07	05/12/15 15:06	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*83*		*40 - 130*	*05/08/15 15:07*	*05/12/15 15:06*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Dieldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Endrin aldehyde	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Endrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Endrin ketone	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Heptachlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Heptachlor epoxide	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
4,4'-DDT	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
4,4'-DDE	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
4,4'-DDD	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Endosulfan I	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Endosulfan II	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
alpha-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
beta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
delta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1

Client Sample ID: A-15-003-2

Date Collected: 05/05/15 11:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-9

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Methoxychlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
alpha-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1
gamma-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 07:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*118*		*57 - 122*	*05/12/15 17:02*	*05/14/15 07:22*	*1*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*05/12/15 17:02*	*05/14/15 07:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*45 - 132*	*05/12/15 17:02*	*05/14/15 06:36*	*1*
DCB Decachlorobiphenyl	*83*		*42 - 146*	*05/12/15 17:02*	*05/14/15 06:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**180**		1.9		mg/Kg		05/12/15 19:52	05/13/15 21:08	4

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.63**		0.050		mg/L		05/30/15 14:57	06/01/15 20:29	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.8**		0.050		mg/L		06/04/15 13:54	06/04/15 15:53	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-003-3

Date Collected: 05/05/15 12:01
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-10

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	31		1.2		mg/Kg		05/12/15 19:52	05/13/15 21:13	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-003-6

Date Collected: 05/05/15 11:41
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Acetone	ND		17000		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Benzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Dichlorobromomethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Bromobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Chlorobromomethane	ND		6700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Bromoform	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Bromomethane	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
2-Butanone (MEK)	ND		17000		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
n-Butylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
sec-Butylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
tert-Butylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Carbon disulfide	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Carbon tetrachloride	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Chlorobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Chloroethane	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Chloroform	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Chloromethane	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
2-Chlorotoluene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
4-Chlorotoluene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Chlorodibromomethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2-Dichlorobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,3-Dichlorobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,4-Dichlorobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,3-Dichloropropane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1-Dichloropropene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2-Dibromo-3-Chloropropane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Ethylene Dibromide	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Dibromomethane	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Dichlorodifluoromethane	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1-Dichloroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2-Dichloroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1-Dichloroethene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
cis-1,2-Dichloroethene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
trans-1,2-Dichloroethene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2-Dichloropropane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
cis-1,3-Dichloropropene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
trans-1,3-Dichloropropene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Ethylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Hexachlorobutadiene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
2-Hexanone	ND		17000		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Isopropylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
4-Isopropyltoluene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Methylene Chloride	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
4-Methyl-2-pentanone (MIBK)	ND		17000		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Naphthalene	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
N-Propylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Styrene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1,1,2-Tetrachloroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000

Client Sample ID: A-15-003-6

Date Collected: 05/05/15 11:41
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-11

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Tetrachloroethene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Toluene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2,3-Trichlorobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2,4-Trichlorobenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1,1-Trichloroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1,2-Trichloroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Trichloroethene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Trichlorofluoromethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2,3-Trichloropropane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,2,4-Trimethylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
1,3,5-Trimethylbenzene	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Vinyl acetate	ND		17000		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Vinyl chloride	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Xylenes, Total	ND		3400		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
2,2-Dichloropropane	ND		1700		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000
Gasoline Range Organics (GRO) -C5-C12	**1200000**		84000		ug/Kg		05/07/15 21:15	05/14/15 13:18	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*132*		*66 - 148*	*05/07/15 21:15*	*05/14/15 13:18*	*1000*
1,2-Dichloroethane-d4 (Surr)	*95*		*62 - 137*	*05/07/15 21:15*	*05/14/15 13:18*	*1000*
Toluene-d8 (Surr)	*103*		*65 - 141*	*05/07/15 21:15*	*05/14/15 13:18*	*1000*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		250		mg/Kg		05/08/15 15:07	05/12/15 15:35	5
Diesel Range Organics [C9-C24]	**420**		5.0		mg/Kg		05/08/15 15:07	05/12/15 15:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*05/08/15 15:07*	*05/12/15 15:35*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1

Client Sample ID: A-15-003-6

Date Collected: 05/05/15 11:41
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-11

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*57 - 122*	*05/12/15 17:02*	*05/14/15 07:40*	*1*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*05/12/15 17:02*	*05/14/15 07:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/14/15 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*45 - 132*	*05/12/15 17:02*	*05/14/15 06:53*	*1*
DCB Decachlorobiphenyl	*85*		*42 - 146*	*05/12/15 17:02*	*05/14/15 06:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Arsenic	**4.4**		2.7		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Barium	**220**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Beryllium	ND		0.27		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Cadmium	ND		0.34		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Chromium	**50**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Cobalt	**9.3**		0.55		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Copper	**27**		4.1		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Lead	**93**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Molybdenum	ND		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Nickel	**63**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Selenium	ND		2.7		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Silver	ND		0.68		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Thallium	ND		1.4		mg/Kg		05/12/15 19:52	05/14/15 14:02	4
Vanadium	**26**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:17	4
Zinc	**51**		4.1		mg/Kg		05/12/15 19:52	05/13/15 21:17	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.5**	**H**	0.050		mg/L		06/22/15 10:10	06/22/15 18:12	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.076**		0.0094		mg/Kg		05/12/15 15:43	05/12/15 21:24	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-004-1

Date Collected: 05/05/15 14:04
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-12

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:32	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-004-2

Date Collected: 05/05/15 14:00
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Acetone	ND		2100		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Benzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Dichlorobromomethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Bromobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Chlorobromomethane	ND		830		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Bromoform	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Bromomethane	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
2-Butanone (MEK)	ND		2100		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
n-Butylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
sec-Butylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
tert-Butylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Carbon disulfide	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Carbon tetrachloride	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Chlorobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Chloroethane	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Chloroform	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Chloromethane	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
2-Chlorotoluene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
4-Chlorotoluene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Chlorodibromomethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2-Dichlorobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,3-Dichlorobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,4-Dichlorobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,3-Dichloropropane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1-Dichloropropene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2-Dibromo-3-Chloropropane	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Ethylene Dibromide	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Dibromomethane	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Dichlorodifluoromethane	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1-Dichloroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2-Dichloroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1-Dichloroethene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
cis-1,2-Dichloroethene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
trans-1,2-Dichloroethene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2-Dichloropropane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
cis-1,3-Dichloropropene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
trans-1,3-Dichloropropene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Ethylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Hexachlorobutadiene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
2-Hexanone	ND		2100		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Isopropylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
4-Isopropyltoluene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Methylene Chloride	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
4-Methyl-2-pentanone (MIBK)	ND		2100		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Naphthalene	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
N-Propylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Styrene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1,1,2-Tetrachloroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1

Client Sample ID: A-15-004-2

Date Collected: 05/05/15 14:00
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-13

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Tetrachloroethene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Toluene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2,3-Trichlorobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2,4-Trichlorobenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1,1-Trichloroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1,2-Trichloroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Trichloroethene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Trichlorofluoromethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2,3-Trichloropropane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,2,4-Trimethylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
1,3,5-Trimethylbenzene	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Vinyl acetate	ND	*	830		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Vinyl chloride	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Xylenes, Total	ND		420		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
2,2-Dichloropropane	ND		210		ug/Kg		05/07/15 21:15	05/08/15 18:39	1
Gasoline Range Organics (GRO) -C5-C12	ND		10000		ug/Kg		05/07/15 21:15	05/08/15 18:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*81*		*45 - 131*	*05/07/15 21:15*	*05/08/15 18:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*	*05/07/15 21:15*	*05/08/15 18:39*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*05/07/15 21:15*	*05/08/15 18:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/08/15 15:07	05/12/15 14:37	1
Diesel Range Organics [C9-C24]	**6.7**		1.0		mg/Kg		05/08/15 15:07	05/12/15 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*40 - 130*	*05/08/15 15:07*	*05/12/15 14:37*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1

Client Sample ID: A-15-004-2

Date Collected: 05/05/15 14:00
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-13

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 07:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*57 - 122*	*05/12/15 17:02*	*05/14/15 07:57*	*1*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*05/12/15 17:02*	*05/14/15 07:57*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 132*	*05/12/15 17:02*	*05/13/15 16:35*	*1*
DCB Decachlorobiphenyl	*80*		*42 - 146*	*05/12/15 17:02*	*05/13/15 16:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Arsenic	**6.8**		2.9		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Barium	**24**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Beryllium	**0.40**		0.29		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Cadmium	ND		0.36		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Chromium	**47**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Cobalt	**13**		0.58		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Copper	**24**		4.3		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Lead	**8.0**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Molybdenum	ND		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Nickel	**50**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Selenium	ND		2.9		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Silver	ND		0.72		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Thallium	ND		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Vanadium	**37**		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:36	4
Zinc	**55**		4.3		mg/Kg		05/12/15 19:52	05/13/15 21:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.0091		mg/Kg		05/12/15 15:43	05/12/15 21:27	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-004-3

Date Collected: 05/05/15 13:55
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-14

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Arsenic	**3.7**		3.0		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Barium	**20**		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Beryllium	ND		0.30		mg/Kg		05/12/15 19:52	05/14/15 14:06	4
Cadmium	ND		0.37		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Chromium	**44**		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Cobalt	**8.0**		0.59		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Copper	**22**		4.4		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Lead	**5.1**		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Molybdenum	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Nickel	**41**		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Selenium	ND		3.0		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Silver	ND		0.74		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Thallium	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Vanadium	**36**		1.5		mg/Kg		05/12/15 19:52	05/13/15 21:41	4
Zinc	**42**		4.4		mg/Kg		05/12/15 19:52	05/13/15 21:41	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.0097		mg/Kg		05/12/15 15:43	05/12/15 21:29	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-005-1.5

Date Collected: 05/05/15 14:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-15

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Acetone	ND		50		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Benzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Dichlorobromomethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Bromobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Chlorobromomethane	ND		20		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Bromoform	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Bromomethane	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
2-Butanone (MEK)	ND		50		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
n-Butylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
sec-Butylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
tert-Butylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Carbon disulfide	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Carbon tetrachloride	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Chlorobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Chloroethane	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Chloroform	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Chloromethane	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
2-Chlorotoluene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
4-Chlorotoluene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Chlorodibromomethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,3-Dichloropropane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1-Dichloropropene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2-Dibromo-3-Chloropropane	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Ethylene Dibromide	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Dibromomethane	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1-Dichloroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2-Dichloroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1-Dichloroethene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2-Dichloropropane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Ethylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Hexachlorobutadiene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
2-Hexanone	ND		50		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Isopropylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
4-Isopropyltoluene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Methylene Chloride	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Naphthalene	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
N-Propylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Styrene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1

Client Sample ID: A-15-005-1.5

Date Collected: 05/05/15 14:30
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-15
Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Tetrachloroethene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Toluene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Trichloroethene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Trichlorofluoromethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Vinyl acetate	ND	*	20		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Vinyl chloride	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Xylenes, Total	ND		9.9		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
2,2-Dichloropropane	ND		5.0		ug/Kg		05/07/15 21:15	05/08/15 19:07	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		05/07/15 21:15	05/08/15 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*45 - 131*	*05/07/15 21:15*	*05/08/15 19:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*	*05/07/15 21:15*	*05/08/15 19:07*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*05/07/15 21:15*	*05/08/15 19:07*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/08/15 15:07	05/12/15 11:41	1
Diesel Range Organics [C9-C24]	**5.4**		1.0		mg/Kg		05/08/15 15:07	05/12/15 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*57*		*40 - 130*	*05/08/15 15:07*	*05/12/15 11:41*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1

Client Sample ID: A-15-005-1.5

Lab Sample ID: 720-64632-15

Date Collected: 05/05/15 14:30

Matrix: Solid

Date Received: 05/07/15 15:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*57 - 122*	*05/12/15 17:02*	*05/14/15 08:15*	*1*
DCB Decachlorobiphenyl	*68*		*21 - 136*	*05/12/15 17:02*	*05/14/15 08:15*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*45 - 132*	*05/12/15 17:02*	*05/14/15 06:36*	*1*
DCB Decachlorobiphenyl	*80*		*42 - 146*	*05/12/15 17:02*	*05/14/15 06:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		1.9		mg/Kg		05/12/15 19:52	05/13/15 21:46	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-005-2

Date Collected: 05/05/15 14:47
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-16

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.2		1.3		mg/Kg		05/12/15 19:52	05/13/15 21:50	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-005-3

Date Collected: 05/05/15 14:45
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-17

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.0		1.4		mg/Kg		05/12/15 19:52	05/13/15 21:55	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-005-6

Date Collected: 05/05/15 14:43
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Acetone	ND		37		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Benzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Dichlorobromomethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Bromobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Chlorobromomethane	ND		15		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Bromoform	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Bromomethane	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
2-Butanone (MEK)	ND		37		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
n-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
sec-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
tert-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Carbon disulfide	**8.4**		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Carbon tetrachloride	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Chlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Chloroethane	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Chloroform	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Chloromethane	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
2-Chlorotoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
4-Chlorotoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Chlorodibromomethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,3-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,4-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,3-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2-Dibromo-3-Chloropropane	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Ethylene Dibromide	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Dibromomethane	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Dichlorodifluoromethane	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1-Dichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2-Dichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
cis-1,2-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
trans-1,2-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
cis-1,3-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
trans-1,3-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Ethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Hexachlorobutadiene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
2-Hexanone	ND		37		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Isopropylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
4-Isopropyltoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Methylene Chloride	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
4-Methyl-2-pentanone (MIBK)	ND		37		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Naphthalene	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
N-Propylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Styrene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1,1,2-Tetrachloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1

Client Sample ID: A-15-005-6

Date Collected: 05/05/15 14:43
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-18

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Tetrachloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Toluene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2,3-Trichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2,4-Trichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1,1-Trichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1,2-Trichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Trichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Trichlorofluoromethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2,3-Trichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,2,4-Trimethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
1,3,5-Trimethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Vinyl acetate	ND	*	15		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Vinyl chloride	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Xylenes, Total	ND		7.3		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
2,2-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/12/15 17:02	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/07/15 21:15	05/12/15 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*05/07/15 21:15*	*05/12/15 17:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*	*05/07/15 21:15*	*05/12/15 17:02*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/07/15 21:15*	*05/12/15 17:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		05/08/15 15:07	05/11/15 16:35	1
Diesel Range Organics [C9-C24]	**2.4**		0.99		mg/Kg		05/08/15 15:07	05/11/15 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*116*		*40 - 130*	*05/08/15 15:07*	*05/11/15 16:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Dieldrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Endrin aldehyde	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Endrin	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Endrin ketone	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Heptachlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Heptachlor epoxide	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
4,4'-DDT	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
4,4'-DDE	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
4,4'-DDD	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Endosulfan I	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Endosulfan II	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
alpha-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
beta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
delta-BHC	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1

Client Sample ID: A-15-005-6

Date Collected: 05/05/15 14:43
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-18

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Methoxychlor	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
alpha-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1
gamma-Chlordane	ND		1.9		ug/Kg		05/12/15 17:02	05/14/15 08:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*105*		*57 - 122*	*05/12/15 17:02*	*05/14/15 08:32*	*1*
DCB Decachlorobiphenyl	*78*		*21 - 136*	*05/12/15 17:02*	*05/14/15 08:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1
PCB-1221	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1
PCB-1232	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1
PCB-1242	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1
PCB-1248	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1
PCB-1254	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1
PCB-1260	ND		48		ug/Kg		05/12/15 17:02	05/13/15 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*45 - 132*	*05/12/15 17:02*	*05/13/15 17:09*	*1*
DCB Decachlorobiphenyl	*86*		*42 - 146*	*05/12/15 17:02*	*05/13/15 17:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.31		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Arsenic	**2.9**		2.5		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Barium	**10**		1.2		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Beryllium	ND		0.061		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Cadmium	ND		0.077		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Chromium	**19**		1.2		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Cobalt	**4.0**		0.49		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Copper	**5.3**		3.7		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Lead	**2.0**		1.2		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Molybdenum	**0.46**		0.31		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Nickel	**13**		1.2		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Selenium	ND		0.61		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Silver	ND		0.15		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Thallium	ND		0.31		mg/Kg		05/12/15 19:52	05/14/15 14:11	1
Vanadium	**12**		1.2		mg/Kg		05/12/15 19:52	05/13/15 22:00	4
Zinc	**12**		3.7		mg/Kg		05/12/15 19:52	05/13/15 22:00	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.0091		mg/Kg		05/12/15 15:43	05/12/15 21:36	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-005-6GW

Lab Sample ID: 720-64632-19

Date Collected: 05/05/15 11:10
Matrix: Water
Date Received: 05/07/15 15:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/Kg			05/13/15 06:10	1
Acetone	ND		50		ug/Kg			05/13/15 06:10	1
Benzene	ND		0.50		ug/Kg			05/13/15 06:10	1
Dichlorobromomethane	ND		0.50		ug/Kg			05/13/15 06:10	1
Bromobenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
Chlorobromomethane	ND		1.0		ug/Kg			05/13/15 06:10	1
Bromoform	ND		1.0		ug/Kg			05/13/15 06:10	1
Bromomethane	ND		1.0		ug/Kg			05/13/15 06:10	1
2-Butanone (MEK)	ND		50		ug/Kg			05/13/15 06:10	1
n-Butylbenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
sec-Butylbenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
tert-Butylbenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
Carbon disulfide	ND		5.0		ug/Kg			05/13/15 06:10	1
Carbon tetrachloride	ND		0.50		ug/Kg			05/13/15 06:10	1
Chlorobenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
Chloroethane	ND		1.0		ug/Kg			05/13/15 06:10	1
Chloroform	ND		1.0		ug/Kg			05/13/15 06:10	1
Chloromethane	ND		1.0		ug/Kg			05/13/15 06:10	1
2-Chlorotoluene	ND		0.50		ug/Kg			05/13/15 06:10	1
4-Chlorotoluene	ND		0.50		ug/Kg			05/13/15 06:10	1
Chlorodibromomethane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,2-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,3-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,4-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,3-Dichloropropane	ND		1.0		ug/Kg			05/13/15 06:10	1
1,1-Dichloropropene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/Kg			05/13/15 06:10	1
Ethylene Dibromide	ND		0.50		ug/Kg			05/13/15 06:10	1
Dibromomethane	ND		0.50		ug/Kg			05/13/15 06:10	1
Dichlorodifluoromethane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,1-Dichloroethane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,2-Dichloroethane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,1-Dichloroethene	ND		0.50		ug/Kg			05/13/15 06:10	1
cis-1,2-Dichloroethene	ND		0.50		ug/Kg			05/13/15 06:10	1
trans-1,2-Dichloroethene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,2-Dichloropropane	ND		0.50		ug/Kg			05/13/15 06:10	1
cis-1,3-Dichloropropene	ND		0.50		ug/Kg			05/13/15 06:10	1
trans-1,3-Dichloropropene	ND		0.50		ug/Kg			05/13/15 06:10	1
Ethylbenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
Hexachlorobutadiene	ND		1.0		ug/Kg			05/13/15 06:10	1
2-Hexanone	ND		50		ug/Kg			05/13/15 06:10	1
Isopropylbenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
4-Isopropyltoluene	ND		1.0		ug/Kg			05/13/15 06:10	1
Methylene Chloride	ND		5.0		ug/Kg			05/13/15 06:10	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/13/15 06:10	1
Naphthalene	ND		1.0		ug/Kg			05/13/15 06:10	1
N-Propylbenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
Styrene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/Kg			05/13/15 06:10	1

Client Sample ID: A-15-005-6GW

Lab Sample ID: 720-64632-19

Date Collected: 05/05/15 11:10

Matrix: Water

Date Received: 05/07/15 15:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/Kg			05/13/15 06:10	1
Tetrachloroethene	ND		0.50		ug/Kg			05/13/15 06:10	1
Toluene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,2,3-Trichlorobenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
1,2,4-Trichlorobenzene	ND		1.0		ug/Kg			05/13/15 06:10	1
1,1,1-Trichloroethane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,1,2-Trichloroethane	ND		0.50		ug/Kg			05/13/15 06:10	1
Trichloroethene	ND		0.50		ug/Kg			05/13/15 06:10	1
Trichlorofluoromethane	ND		1.0		ug/Kg			05/13/15 06:10	1
1,2,3-Trichloropropane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/Kg			05/13/15 06:10	1
1,2,4-Trimethylbenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
1,3,5-Trimethylbenzene	ND		0.50		ug/Kg			05/13/15 06:10	1
Vinyl acetate	ND		10		ug/Kg			05/13/15 06:10	1
Vinyl chloride	ND		0.50		ug/Kg			05/13/15 06:10	1
Xylenes, Total	ND		1.0		ug/Kg			05/13/15 06:10	1
2,2-Dichloropropane	ND		0.50		ug/Kg			05/13/15 06:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/13/15 06:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*05/13/15 06:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*72 - 130*		*05/13/15 06:10*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*05/13/15 06:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**130**		63		ug/L		05/11/15 14:10	05/12/15 13:38	1
Motor Oil Range Organics [C24-C36]	**230**		130		ug/L		05/11/15 14:10	05/12/15 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*96*		*23 - 156*	*05/11/15 14:10*	*05/12/15 13:38*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Dieldrin	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Endrin aldehyde	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Endrin	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Endrin ketone	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Heptachlor	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Heptachlor epoxide	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
4,4'-DDT	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
4,4'-DDE	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
4,4'-DDD	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Endosulfan I	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Endosulfan II	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
alpha-BHC	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
beta-BHC	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
gamma-BHC (Lindane)	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1

Client Sample ID: A-15-005-6GW

Lab Sample ID: 720-64632-19

Date Collected: 05/05/15 11:10

Matrix: Water

Date Received: 05/07/15 15:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Endosulfan sulfate	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Methoxychlor	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
Toxaphene	ND		1.1		ug/L		05/12/15 09:58	05/13/15 06:16	1
Chlordane (technical)	ND		1.1		ug/L		05/12/15 09:58	05/13/15 06:16	1
alpha-Chlordane	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1
gamma-Chlordane	ND		0.067		ug/L		05/12/15 09:58	05/13/15 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*36 - 112*	*05/12/15 09:58*	*05/13/15 06:16*	*1*
DCB Decachlorobiphenyl	*21*		*14 - 126*	*05/12/15 09:58*	*05/13/15 06:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1
PCB-1221	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1
PCB-1232	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1
PCB-1242	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1
PCB-1248	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1
PCB-1254	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1
PCB-1260	ND		0.56		ug/L		05/12/15 10:02	05/12/15 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*19 - 98*	*05/12/15 10:02*	*05/12/15 21:38*	*1*
DCB Decachlorobiphenyl	*21*		*10 - 122*	*05/12/15 10:02*	*05/12/15 21:38*	*1*

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-006-1.5

Date Collected: 05/06/15 15:21
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Acetone	ND		41		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Benzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Dichlorobromomethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Bromobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Chlorobromomethane	ND		16		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Bromoform	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Bromomethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
2-Butanone (MEK)	ND		41		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
n-Butylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
sec-Butylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
tert-Butylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Carbon disulfide	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Carbon tetrachloride	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Chlorobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Chloroethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Chloroform	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Chloromethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
2-Chlorotoluene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
4-Chlorotoluene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Chlorodibromomethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2-Dichlorobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,3-Dichlorobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,4-Dichlorobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,3-Dichloropropane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1-Dichloropropene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2-Dibromo-3-Chloropropane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Ethylene Dibromide	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Dibromomethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Dichlorodifluoromethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1-Dichloroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2-Dichloroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1-Dichloroethene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
cis-1,2-Dichloroethene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
trans-1,2-Dichloroethene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2-Dichloropropane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
cis-1,3-Dichloropropene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
trans-1,3-Dichloropropene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Ethylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Hexachlorobutadiene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
2-Hexanone	ND		41		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Isopropylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
4-Isopropyltoluene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Methylene Chloride	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
4-Methyl-2-pentanone (MIBK)	ND		41		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Naphthalene	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
N-Propylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Styrene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1,1,2-Tetrachloroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1

Client Sample ID: A-15-006-1.5

Date Collected: 05/06/15 15:21
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-20

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Tetrachloroethene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Toluene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2,3-Trichlorobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2,4-Trichlorobenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1,1-Trichloroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1,2-Trichloroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Trichloroethene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Trichlorofluoromethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2,3-Trichloropropane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,2,4-Trimethylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
1,3,5-Trimethylbenzene	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Vinyl acetate	ND	*	16		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Vinyl chloride	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Xylenes, Total	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
2,2-Dichloropropane	ND		4.1		ug/Kg		05/07/15 21:15	05/11/15 14:27	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		05/07/15 21:15	05/11/15 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*	*05/07/15 21:15*	*05/11/15 14:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 140*	*05/07/15 21:15*	*05/11/15 14:27*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*05/07/15 21:15*	*05/11/15 14:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**600**		250		mg/Kg		05/08/15 15:07	05/11/15 18:36	5
Diesel Range Organics [C9-C24]	**58**		5.0		mg/Kg		05/08/15 15:07	05/11/15 18:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*05/08/15 15:07*	*05/11/15 18:36*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1

Client Sample ID: A-15-006-1.5

Lab Sample ID: 720-64632-20

Date Collected: 05/06/15 15:21

Matrix: Solid

Date Received: 05/07/15 15:30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*57 - 122*	*05/12/15 17:02*	*05/14/15 08:50*	*1*
DCB Decachlorobiphenyl	*89*		*21 - 136*	*05/12/15 17:02*	*05/14/15 08:50*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*45 - 132*	*05/12/15 17:02*	*05/13/15 17:25*	*1*
DCB Decachlorobiphenyl	*87*		*42 - 146*	*05/12/15 17:02*	*05/13/15 17:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**83**		1.4		mg/Kg		05/12/15 19:52	05/13/15 22:04	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.8**	**H**	0.050		mg/L		06/22/15 10:10	06/22/15 18:17	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-006-2

Date Collected: 05/05/15 15:36
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Acetone	ND		40		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Benzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Dichlorobromomethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Bromobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Chlorobromomethane	ND		16		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Bromoform	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Bromomethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
2-Butanone (MEK)	ND		40		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
n-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
sec-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
tert-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Carbon disulfide	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Carbon tetrachloride	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Chlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Chloroethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Chloroform	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Chloromethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
2-Chlorotoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
4-Chlorotoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Chlorodibromomethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,3-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,4-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,3-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2-Dibromo-3-Chloropropane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Ethylene Dibromide	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Dibromomethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Dichlorodifluoromethane	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1-Dichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2-Dichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
trans-1,2-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
cis-1,3-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
trans-1,3-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Ethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Hexachlorobutadiene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
2-Hexanone	ND		40		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Isopropylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
4-Isopropyltoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Methylene Chloride	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
4-Methyl-2-pentanone (MIBK)	ND		40		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Naphthalene	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
N-Propylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Styrene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1

Client Sample ID: A-15-006-2

Date Collected: 05/05/15 15:36
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-21

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Tetrachloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Toluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2,4-Trichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1,1-Trichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1,2-Trichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Trichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Trichlorofluoromethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2,3-Trichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,2,4-Trimethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
1,3,5-Trimethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Vinyl acetate	ND	*	16		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Vinyl chloride	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Xylenes, Total	ND		8.1		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
2,2-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 14:56	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		05/07/15 21:15	05/11/15 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*45 - 131*	*05/07/15 21:15*	*05/11/15 14:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*60 - 140*	*05/07/15 21:15*	*05/11/15 14:56*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/07/15 21:15*	*05/11/15 14:56*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/12/15 13:26	05/12/15 22:49	1
Diesel Range Organics [C9-C24]	**1.5**		1.0		mg/Kg		05/12/15 13:26	05/12/15 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*88*		*40 - 130*	*05/12/15 13:26*	*05/12/15 22:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1

Client Sample ID: A-15-006-2

Date Collected: 05/05/15 15:36
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-21

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*57 - 122*	*05/12/15 17:02*	*05/14/15 09:07*	*1*
DCB Decachlorobiphenyl	*80*		*21 - 136*	*05/12/15 17:02*	*05/14/15 09:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*45 - 132*	*05/12/15 17:02*	*05/13/15 17:42*	*1*
DCB Decachlorobiphenyl	*83*		*42 - 146*	*05/12/15 17:02*	*05/13/15 17:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.8**		1.7		mg/Kg		05/12/15 19:52	05/13/15 22:09	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-006-3

Date Collected: 05/05/15 15:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Acetone	ND		37		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Benzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Dichlorobromomethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Bromobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Chlorobromomethane	ND		15		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Bromoform	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Bromomethane	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
2-Butanone (MEK)	ND		37		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
n-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
sec-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
tert-Butylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Carbon disulfide	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Carbon tetrachloride	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Chlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Chloroethane	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Chloroform	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Chloromethane	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
2-Chlorotoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
4-Chlorotoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Chlorodibromomethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,3-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,4-Dichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,3-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2-Dibromo-3-Chloropropane	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Ethylene Dibromide	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Dibromomethane	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Dichlorodifluoromethane	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1-Dichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2-Dichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
cis-1,2-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
trans-1,2-Dichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
cis-1,3-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
trans-1,3-Dichloropropene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Ethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Hexachlorobutadiene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
2-Hexanone	ND		37		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Isopropylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
4-Isopropyltoluene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Methylene Chloride	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
4-Methyl-2-pentanone (MIBK)	ND		37		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Naphthalene	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
N-Propylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Styrene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1,1,2-Tetrachloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1

Client Sample ID: A-15-006-3

Date Collected: 05/05/15 15:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-22

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Tetrachloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Toluene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2,3-Trichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2,4-Trichlorobenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1,1-Trichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1,2-Trichloroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Trichloroethene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Trichlorofluoromethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2,3-Trichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,2,4-Trimethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
1,3,5-Trimethylbenzene	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Vinyl acetate	ND	*	15		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Vinyl chloride	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Xylenes, Total	ND		7.4		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
2,2-Dichloropropane	ND		3.7		ug/Kg		05/07/15 21:15	05/11/15 15:26	1
Gasoline Range Organics (GRO) -C5-C12	ND		190		ug/Kg		05/07/15 21:15	05/11/15 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*05/07/15 21:15*	*05/11/15 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*60 - 140*	*05/07/15 21:15*	*05/11/15 15:26*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*05/07/15 21:15*	*05/11/15 15:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/12/15 13:26	05/12/15 22:20	1
Diesel Range Organics [C9-C24]	ND		0.99		mg/Kg		05/12/15 13:26	05/12/15 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*40 - 130*	*05/12/15 13:26*	*05/12/15 22:20*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1

Client Sample ID: A-15-006-3

Date Collected: 05/05/15 15:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-22

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*100*		*57 - 122*	*05/12/15 17:02*	*05/14/15 09:25*	*1*
DCB Decachlorobiphenyl	*87*		*21 - 136*	*05/12/15 17:02*	*05/14/15 09:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*45 - 132*	*05/12/15 17:02*	*05/13/15 17:59*	*1*
DCB Decachlorobiphenyl	*86*		*42 - 146*	*05/12/15 17:02*	*05/13/15 17:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.38		mg/Kg		05/12/15 19:52	05/14/15 14:16	1
Arsenic	**3.8**		3.1		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Barium	**12**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Beryllium	**0.38**		0.31		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Cadmium	**0.20**		0.096		mg/Kg		05/12/15 19:52	05/14/15 14:16	1
Chromium	**29**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Cobalt	**9.0**		0.62		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Copper	**13**		4.6		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Lead	**8.4**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Molybdenum	ND		0.38		mg/Kg		05/12/15 19:52	05/14/15 14:16	1
Nickel	**53**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Selenium	ND		0.77		mg/Kg		05/12/15 19:52	05/14/15 14:16	1
Silver	ND		0.19		mg/Kg		05/12/15 19:52	05/14/15 14:16	1
Thallium	ND		0.38		mg/Kg		05/12/15 19:52	05/14/15 14:16	1
Vanadium	**22**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:14	4
Zinc	**40**		4.6		mg/Kg		05/12/15 19:52	05/13/15 22:14	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.0095		mg/Kg		05/12/15 15:43	05/12/15 21:39	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-007-1

Date Collected: 05/06/15 08:33
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-23

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	58		1.2		mg/Kg		05/12/15 19:52	05/13/15 22:28	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.7	H	0.050		mg/L		06/22/15 10:10	06/22/15 18:22	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-007-2

Date Collected: 05/06/15 08:31
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-24

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		1.1		mg/Kg		05/12/15 19:52	05/13/15 22:32	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-007-3

Date Collected: 05/06/15 07:40
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Acetone	ND		39		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Benzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Dichlorobromomethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Bromobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Chlorobromomethane	ND		16		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Bromoform	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Bromomethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
2-Butanone (MEK)	ND		39		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
n-Butylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
sec-Butylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
tert-Butylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Carbon disulfide	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Carbon tetrachloride	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Chlorobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Chloroethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Chloroform	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Chloromethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
2-Chlorotoluene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
4-Chlorotoluene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Chlorodibromomethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2-Dichlorobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,3-Dichlorobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,4-Dichlorobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,3-Dichloropropane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1-Dichloropropene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2-Dibromo-3-Chloropropane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Ethylene Dibromide	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Dibromomethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Dichlorodifluoromethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1-Dichloroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2-Dichloroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1-Dichloroethene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
cis-1,2-Dichloroethene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
trans-1,2-Dichloroethene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2-Dichloropropane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
cis-1,3-Dichloropropene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
trans-1,3-Dichloropropene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Ethylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Hexachlorobutadiene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
2-Hexanone	ND		39		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Isopropylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
4-Isopropyltoluene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Methylene Chloride	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
4-Methyl-2-pentanone (MIBK)	ND		39		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Naphthalene	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
N-Propylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Styrene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1,1,2-Tetrachloroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1

Client Sample ID: A-15-007-3

Date Collected: 05/06/15 07:40
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-25

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Tetrachloroethene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Toluene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2,3-Trichlorobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2,4-Trichlorobenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1,1-Trichloroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1,2-Trichloroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Trichloroethene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Trichlorofluoromethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2,3-Trichloropropane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,2,4-Trimethylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
1,3,5-Trimethylbenzene	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Vinyl acetate	ND	*	16		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Vinyl chloride	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Xylenes, Total	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
2,2-Dichloropropane	ND		3.9		ug/Kg		05/07/15 21:15	05/11/15 15:55	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		05/07/15 21:15	05/11/15 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*05/07/15 21:15*	*05/11/15 15:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*60 - 140*	*05/07/15 21:15*	*05/11/15 15:55*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/07/15 21:15*	*05/11/15 15:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**250**		150		mg/Kg		05/12/15 13:26	05/13/15 11:44	3
Diesel Range Organics [C9-C24]	**8.8**		3.0		mg/Kg		05/12/15 13:26	05/13/15 11:44	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*106*		*40 - 130*	*05/12/15 13:26*	*05/13/15 11:44*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1

Client Sample ID: A-15-007-3

Date Collected: 05/06/15 07:40
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-25

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*57 - 122*	*05/12/15 17:02*	*05/14/15 09:42*	*1*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*05/12/15 17:02*	*05/14/15 09:42*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*45 - 132*	*05/12/15 17:02*	*05/13/15 18:16*	*1*
DCB Decachlorobiphenyl	*87*		*42 - 146*	*05/12/15 17:02*	*05/13/15 18:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		1.7		mg/Kg		05/12/15 19:52	05/13/15 22:37	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-007-6

Lab Sample ID: 720-64632-26

Date Collected: 05/06/15 08:35
Date Received: 05/07/15 15:30

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.27		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Arsenic	**1.6**		0.53		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Barium	**17**		1.1		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Beryllium	ND		0.053		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Cadmium	ND		0.067		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Chromium	**19**		1.1		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Cobalt	**4.1**		0.43		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Copper	**5.1**		3.2		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Lead	**3.2**		1.1		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Molybdenum	ND		0.27		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Nickel	**13**		1.1		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Selenium	ND		0.53		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Silver	ND		0.13		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Thallium	ND		0.27		mg/Kg		05/12/15 19:52	05/14/15 14:20	1
Vanadium	**13**		1.1		mg/Kg		05/12/15 19:52	05/13/15 22:42	4
Zinc	**15**		3.2		mg/Kg		05/12/15 19:52	05/13/15 22:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.0098		mg/Kg		05/12/15 15:43	05/12/15 21:41	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-008-1

Date Collected: 05/06/15 07:50
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-27

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Acetone	ND		43		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Benzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Dichlorobromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Bromobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Chlorobromomethane	ND		17		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Bromoform	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Bromomethane	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
2-Butanone (MEK)	ND		43		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
n-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
sec-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
tert-Butylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Carbon disulfide	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Carbon tetrachloride	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Chlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Chloroethane	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Chloroform	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Chloromethane	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
2-Chlorotoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
4-Chlorotoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Chlorodibromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,3-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,4-Dichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,3-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2-Dibromo-3-Chloropropane	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Ethylene Dibromide	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Dibromomethane	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Dichlorodifluoromethane	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Ethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Hexachlorobutadiene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
2-Hexanone	ND		43		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Isopropylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
4-Isopropyltoluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Methylene Chloride	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Naphthalene	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
N-Propylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Styrene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1

Client Sample ID: A-15-008-1

Date Collected: 05/06/15 07:50
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-27

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Tetrachloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Toluene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2,3-Trichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2,4-Trichlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Trichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Trichlorofluoromethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2,3-Trichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,2,4-Trimethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
1,3,5-Trimethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Vinyl acetate	ND	*	17		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Vinyl chloride	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Xylenes, Total	ND		8.7		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
2,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/11/15 16:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/07/15 21:15	05/11/15 16:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*81*		*45 - 131*	*05/07/15 21:15*	*05/11/15 16:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 140*	*05/07/15 21:15*	*05/11/15 16:25*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*05/07/15 21:15*	*05/11/15 16:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**1300**		500		mg/Kg		05/12/15 13:26	05/13/15 12:08	10
Diesel Range Organics [C9-C24]	**41**		10		mg/Kg		05/12/15 13:26	05/13/15 12:08	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*05/12/15 13:26*	*05/13/15 12:08*	*10*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Dieldrin	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Endrin aldehyde	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Endrin	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Endrin ketone	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Heptachlor	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Heptachlor epoxide	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
4,4'-DDT	**13**		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
4,4'-DDE	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
4,4'-DDD	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Endosulfan I	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Endosulfan II	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
alpha-BHC	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
beta-BHC	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
gamma-BHC (Lindane)	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5

Client Sample ID: A-15-008-1

Date Collected: 05/06/15 07:50
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-27

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Endosulfan sulfate	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Methoxychlor	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Toxaphene	ND		200		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
Chlordane (technical)	ND		200		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
alpha-Chlordane	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5
gamma-Chlordane	ND		9.9		ug/Kg		05/12/15 17:02	05/14/15 10:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*57 - 122*	*05/12/15 17:02*	*05/14/15 10:00*	*5*
DCB Decachlorobiphenyl	*85*		*21 - 136*	*05/12/15 17:02*	*05/14/15 10:00*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*45 - 132*	*05/12/15 17:02*	*05/13/15 18:32*	*1*
DCB Decachlorobiphenyl	*88*		*42 - 146*	*05/12/15 17:02*	*05/13/15 18:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.40		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Arsenic	**4.8**		3.2		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Barium	**78**		1.6		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Beryllium	ND		0.080		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Cadmium	**0.24**		0.10		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Chromium	**32**		1.6		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Cobalt	**7.7**		0.64		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Copper	**38**		4.8		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Lead	**63**		1.6		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Molybdenum	**0.46**		0.40		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Nickel	**37**		1.6		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Selenium	ND		0.80		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Silver	ND		0.20		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Thallium	ND		0.40		mg/Kg		05/12/15 19:52	05/14/15 14:50	1
Vanadium	**30**		1.6		mg/Kg		05/12/15 19:52	05/13/15 22:46	4
Zinc	**73**		4.8		mg/Kg		05/12/15 19:52	05/13/15 22:46	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.9**	**H**	0.050		mg/L		06/22/15 10:10	06/22/15 18:38	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-008-1

Date Collected: 05/06/15 07:50
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-27

Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.31		0.010		mg/Kg		05/12/15 15:43	05/12/15 21:44	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-008-2

Date Collected: 05/06/15 07:45
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-28

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Arsenic	**4.5**		3.1		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Barium	**100**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Beryllium	ND		0.31		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Cadmium	ND		0.38		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Chromium	**46**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Cobalt	**9.0**		0.61		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Copper	**23**		4.6		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Lead	**6.4**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Molybdenum	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Nickel	**56**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Selenium	ND		3.1		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Silver	ND		0.76		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Thallium	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Vanadium	**29**		1.5		mg/Kg		05/12/15 19:52	05/13/15 22:51	4
Zinc	**39**		4.6		mg/Kg		05/12/15 19:52	05/13/15 22:51	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.044**		0.0095		mg/Kg		05/12/15 15:43	05/12/15 21:46	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-008-3

Date Collected: 05/06/15 07:40
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-29

Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	49		1.4		mg/Kg		05/12/15 21:35	05/14/15 02:05	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-009-1

Date Collected: 05/06/15 10:15
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-30

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Acetone	**48**		36		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Benzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Dichlorobromomethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Bromobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Chlorobromomethane	ND		14		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Bromoform	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Bromomethane	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
2-Butanone (MEK)	ND		36		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
n-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
sec-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
tert-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Carbon disulfide	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Carbon tetrachloride	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Chlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Chloroethane	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Chloroform	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Chloromethane	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
2-Chlorotoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
4-Chlorotoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Chlorodibromomethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,3-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,4-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,3-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2-Dibromo-3-Chloropropane	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Ethylene Dibromide	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Dibromomethane	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Dichlorodifluoromethane	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1-Dichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2-Dichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
cis-1,2-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
trans-1,2-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
cis-1,3-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
trans-1,3-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Ethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Hexachlorobutadiene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
2-Hexanone	ND		36		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Isopropylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
4-Isopropyltoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Methylene Chloride	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
4-Methyl-2-pentanone (MIBK)	ND		36		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Naphthalene	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
N-Propylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Styrene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1,1,2-Tetrachloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1

Client Sample ID: A-15-009-1

Date Collected: 05/06/15 10:15
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-30

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Tetrachloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Toluene	**14**		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2,3-Trichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2,4-Trichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1,1-Trichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1,2-Trichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Trichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Trichlorofluoromethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2,3-Trichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,2,4-Trimethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
1,3,5-Trimethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Vinyl acetate	ND	*	14		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Vinyl chloride	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Xylenes, Total	ND		7.2		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
2,2-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 14:38	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/07/15 21:15	05/12/15 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*72*		*45 - 131*	*05/07/15 21:15*	*05/12/15 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*90*		*60 - 140*	*05/07/15 21:15*	*05/12/15 14:38*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*05/07/15 21:15*	*05/12/15 14:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**420**		150		mg/Kg		05/12/15 13:26	05/13/15 02:14	3
Diesel Range Organics [C9-C24]	**59**		3.0		mg/Kg		05/12/15 13:26	05/13/15 02:14	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*61*		*40 - 130*	*05/12/15 13:26*	*05/13/15 02:14*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
4,4'-DDD	**3.7**	**p**	2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1

Client Sample ID: A-15-009-1

Date Collected: 05/06/15 10:15
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-30

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
alpha-Chlordane	**4.3**		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1
gamma-Chlordane	**4.5**		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*57 - 122*	*05/12/15 17:02*	*05/14/15 10:17*	*1*
DCB Decachlorobiphenyl	*97*		*21 - 136*	*05/12/15 17:02*	*05/14/15 10:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1254	**110**		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/14/15 06:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*45 - 132*	*05/12/15 17:02*	*05/14/15 06:53*	*1*
DCB Decachlorobiphenyl	*74*		*42 - 146*	*05/12/15 17:02*	*05/14/15 06:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**37000**		32		mg/Kg		05/12/15 21:35	05/14/15 14:59	100

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.8**		0.050		mg/L		05/30/15 14:57	06/01/15 20:34	1

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**100**		0.050		mg/L		06/04/15 13:54	06/04/15 15:58	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-009-2

Date Collected: 05/06/15 10:09
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-31

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Acetone	ND		40		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Benzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Dichlorobromomethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Bromobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Chlorobromomethane	ND		16		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Bromoform	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Bromomethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
2-Butanone (MEK)	ND		40		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
n-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
sec-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
tert-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Carbon disulfide	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Carbon tetrachloride	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Chlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Chloroethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Chloroform	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Chloromethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
2-Chlorotoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
4-Chlorotoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Chlorodibromomethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,3-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,4-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,3-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2-Dibromo-3-Chloropropane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Ethylene Dibromide	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Dibromomethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Dichlorodifluoromethane	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1-Dichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2-Dichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
trans-1,2-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
cis-1,3-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
trans-1,3-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Ethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Hexachlorobutadiene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
2-Hexanone	ND		40		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Isopropylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
4-Isopropyltoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Methylene Chloride	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
4-Methyl-2-pentanone (MIBK)	ND		40		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Naphthalene	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
N-Propylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Styrene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1

Client Sample ID: A-15-009-2

Date Collected: 05/06/15 10:09
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-31

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Tetrachloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Toluene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2,4-Trichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1,1-Trichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1,2-Trichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Trichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Trichlorofluoromethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2,3-Trichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,2,4-Trimethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
1,3,5-Trimethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Vinyl acetate	ND	*	16		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Vinyl chloride	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Xylenes, Total	ND		7.9		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
2,2-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/11/15 17:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		05/07/15 21:15	05/11/15 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*69*		*45 - 131*	*05/07/15 21:15*	*05/11/15 17:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 140*	*05/07/15 21:15*	*05/11/15 17:25*	*1*
Toluene-d8 (Surr)	*85*		*58 - 140*	*05/07/15 21:15*	*05/11/15 17:25*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**330**		250		mg/Kg		05/12/15 13:26	05/13/15 02:44	5
Diesel Range Organics [C9-C24]	**28**		5.0		mg/Kg		05/12/15 13:26	05/13/15 02:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*05/12/15 13:26*	*05/13/15 02:44*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
4,4'-DDD	**7.6**		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1

Client Sample ID: A-15-009-2

Date Collected: 05/06/15 10:09
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-31

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*119*		*57 - 122*	*05/12/15 17:02*	*05/14/15 10:35*	*1*
DCB Decachlorobiphenyl	*108*		*21 - 136*	*05/12/15 17:02*	*05/14/15 10:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/14/15 07:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*45 - 132*	*05/12/15 17:02*	*05/14/15 07:10*	*1*
DCB Decachlorobiphenyl	*74*		*42 - 146*	*05/12/15 17:02*	*05/14/15 07:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Arsenic	**5.9**		2.9		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Barium	**89**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Beryllium	**0.37**		0.29		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Cadmium	ND		0.36		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Chromium	**78**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Cobalt	**10**		0.58		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Copper	**59**		4.4		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Lead	**98**		1.5		mg/Kg		05/12/15 21:35	05/14/15 15:05	4
Molybdenum	ND		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Nickel	**45**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Selenium	ND		2.9		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Silver	ND		0.73		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Thallium	ND		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Vanadium	**37**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:15	4
Zinc	**91**		4.4		mg/Kg		05/12/15 21:35	05/14/15 02:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.41**		0.0085		mg/Kg		05/13/15 18:57	05/14/15 16:04	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-009-3

Date Collected: 05/06/15 10:04
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-32

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Acetone	ND		43		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Benzene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Dichlorobromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Bromobenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Chlorobromomethane	ND		17		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Bromoform	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Bromomethane	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
2-Butanone (MEK)	ND		43		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
n-Butylbenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
sec-Butylbenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
tert-Butylbenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Carbon disulfide	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Carbon tetrachloride	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Chlorobenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Chloroethane	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Chloroform	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Chloromethane	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
2-Chlorotoluene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
4-Chlorotoluene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Chlorodibromomethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2-Dichlorobenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,3-Dichlorobenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,4-Dichlorobenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,3-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2-Dibromo-3-Chloropropane	ND	*	8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Ethylene Dibromide	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Dibromomethane	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Dichlorodifluoromethane	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2-Dichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
cis-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
trans-1,2-Dichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
cis-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
trans-1,3-Dichloropropene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Ethylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Hexachlorobutadiene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
2-Hexanone	ND		43		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Isopropylbenzene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
4-Isopropyltoluene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Methylene Chloride	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
4-Methyl-2-pentanone (MIBK)	ND		43		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Naphthalene	ND	*	8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
N-Propylbenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Styrene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1,1,2-Tetrachloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1

Client Sample ID: A-15-009-3

Date Collected: 05/06/15 10:04
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-32

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Tetrachloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Toluene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2,3-Trichlorobenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2,4-Trichlorobenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1,1-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1,2-Trichloroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Trichloroethene	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Trichlorofluoromethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2,3-Trichloropropane	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,2,4-Trimethylbenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
1,3,5-Trimethylbenzene	ND	*	4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Vinyl acetate	ND	*	17		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Vinyl chloride	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Xylenes, Total	ND		8.5		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
2,2-Dichloropropane	ND		4.3		ug/Kg		05/07/15 21:15	05/12/15 16:33	1
Gasoline Range Organics (GRO) -C5-C12	ND		210		ug/Kg		05/07/15 21:15	05/12/15 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*45 - 131*	*05/07/15 21:15*	*05/12/15 16:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*	*05/07/15 21:15*	*05/12/15 16:33*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*05/07/15 21:15*	*05/12/15 16:33*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/12/15 13:26	05/12/15 23:19	1
Diesel Range Organics [C9-C24]	**1.5**		0.99		mg/Kg		05/12/15 13:26	05/12/15 23:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*95*		*40 - 130*	*05/12/15 13:26*	*05/12/15 23:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1

Client Sample ID: A-15-009-3

Date Collected: 05/06/15 10:04
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-32

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*57 - 122*	*05/12/15 17:02*	*05/14/15 10:52*	*1*
DCB Decachlorobiphenyl	*87*		*21 - 136*	*05/12/15 17:02*	*05/14/15 10:52*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*45 - 132*	*05/12/15 17:02*	*05/13/15 20:13*	*1*
DCB Decachlorobiphenyl	*92*		*42 - 146*	*05/12/15 17:02*	*05/13/15 20:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.26		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Arsenic	**1.5**		0.52		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Barium	**28**		1.0		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Beryllium	**0.28**		0.21		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Cadmium	ND		0.064		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Chromium	**10**		1.0		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Cobalt	**4.0**		0.41		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Copper	**11**		3.1		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Lead	**11**		1.0		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Molybdenum	ND		0.26		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Nickel	**14**		1.0		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Selenium	ND		0.52		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Silver	ND		0.13		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Thallium	ND		0.26		mg/Kg		05/12/15 21:35	05/14/15 15:09	1
Vanadium	**18**		1.0		mg/Kg		05/12/15 21:35	05/14/15 02:20	4
Zinc	**26**		3.1		mg/Kg		05/12/15 21:35	05/14/15 02:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.0086		mg/Kg		05/13/15 18:57	05/14/15 16:06	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-010-1

Date Collected: 05/06/15 09:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-33

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Acetone	ND		44		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Benzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Dichlorobromomethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Bromobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Chlorobromomethane	ND		18		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Bromoform	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Bromomethane	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
2-Butanone (MEK)	ND		44		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
n-Butylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
sec-Butylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
tert-Butylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Carbon disulfide	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Carbon tetrachloride	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Chlorobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Chloroethane	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Chloroform	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Chloromethane	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
2-Chlorotoluene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
4-Chlorotoluene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Chlorodibromomethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2-Dichlorobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,3-Dichlorobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,4-Dichlorobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,3-Dichloropropane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1-Dichloropropene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2-Dibromo-3-Chloropropane	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Ethylene Dibromide	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Dibromomethane	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Dichlorodifluoromethane	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1-Dichloroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2-Dichloroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1-Dichloroethene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
cis-1,2-Dichloroethene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
trans-1,2-Dichloroethene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2-Dichloropropane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
cis-1,3-Dichloropropene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
trans-1,3-Dichloropropene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Ethylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Hexachlorobutadiene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
2-Hexanone	ND		44		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Isopropylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
4-Isopropyltoluene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Methylene Chloride	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
4-Methyl-2-pentanone (MIBK)	ND		44		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Naphthalene	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
N-Propylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Styrene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1,1,2-Tetrachloroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1

Client Sample ID: A-15-010-1

Date Collected: 05/06/15 09:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-33

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Tetrachloroethene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Toluene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2,3-Trichlorobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2,4-Trichlorobenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1,1-Trichloroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1,2-Trichloroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Trichloroethene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Trichlorofluoromethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2,3-Trichloropropane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,2,4-Trimethylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
1,3,5-Trimethylbenzene	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Vinyl acetate	ND		18		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Vinyl chloride	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Xylenes, Total	ND		8.8		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
2,2-Dichloropropane	ND		4.4		ug/Kg		05/07/15 21:15	05/11/15 22:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		220		ug/Kg		05/07/15 21:15	05/11/15 22:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*05/07/15 21:15*	*05/11/15 22:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 140*	*05/07/15 21:15*	*05/11/15 22:12*	*1*
Toluene-d8 (Surr)	*95*		*58 - 140*	*05/07/15 21:15*	*05/11/15 22:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**640**		250		mg/Kg		05/12/15 13:26	05/13/15 12:32	5
Diesel Range Organics [C9-C24]	**31**		5.0		mg/Kg		05/12/15 13:26	05/13/15 12:32	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*05/12/15 13:26*	*05/13/15 12:32*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1

Client Sample ID: A-15-010-1

Date Collected: 05/06/15 09:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-33

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Toxaphene	ND		40		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
Chlordane (technical)	ND		40		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*57 - 122*	*05/12/15 17:02*	*05/14/15 11:10*	*1*
DCB Decachlorobiphenyl	*83*		*21 - 136*	*05/12/15 17:02*	*05/14/15 11:10*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1
PCB-1221	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1
PCB-1232	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1
PCB-1242	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1
PCB-1248	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1
PCB-1254	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1
PCB-1260	ND		50		ug/Kg		05/12/15 17:02	05/13/15 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*45 - 132*	*05/12/15 17:02*	*05/13/15 20:29*	*1*
DCB Decachlorobiphenyl	*81*		*42 - 146*	*05/12/15 17:02*	*05/13/15 20:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.36		mg/Kg		05/12/15 21:35	05/14/15 15:15	1
Arsenic	**4.7**		2.9		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Barium	**58**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Beryllium	ND		0.073		mg/Kg		05/12/15 21:35	05/14/15 16:43	1
Cadmium	ND		0.091		mg/Kg		05/12/15 21:35	05/14/15 15:15	1
Chromium	**31**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Cobalt	**8.1**		0.58		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Copper	**39**		4.4		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Lead	**97**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Molybdenum	ND		0.36		mg/Kg		05/12/15 21:35	05/14/15 15:15	1
Nickel	**32**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Selenium	ND		0.73		mg/Kg		05/12/15 21:35	05/14/15 15:15	1
Silver	ND		0.18		mg/Kg		05/12/15 21:35	05/14/15 15:15	1
Thallium	ND		0.36		mg/Kg		05/12/15 21:35	05/14/15 15:15	1
Vanadium	**31**		1.5		mg/Kg		05/12/15 21:35	05/14/15 02:24	4
Zinc	**56**		4.4		mg/Kg		05/12/15 21:35	05/14/15 02:24	4

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.5**	**H**	0.050		mg/L		06/22/15 10:11	06/22/15 18:43	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-010-1

Date Collected: 05/06/15 09:32
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-33

Matrix: Solid

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.47		0.0087		mg/Kg		05/13/15 18:57	05/14/15 16:09	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-010-2

Date Collected: 05/06/15 09:31
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-34

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Acetone	ND		40		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Benzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Dichlorobromomethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Bromobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Chlorobromomethane	ND		16		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Bromoform	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Bromomethane	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
2-Butanone (MEK)	ND		40		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
n-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
sec-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
tert-Butylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Carbon disulfide	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Carbon tetrachloride	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Chlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Chloroethane	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Chloroform	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Chloromethane	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
2-Chlorotoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
4-Chlorotoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Chlorodibromomethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,3-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,4-Dichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,3-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2-Dibromo-3-Chloropropane	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Ethylene Dibromide	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Dibromomethane	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Dichlorodifluoromethane	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1-Dichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2-Dichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
cis-1,2-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
trans-1,2-Dichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
cis-1,3-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
trans-1,3-Dichloropropene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Ethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Hexachlorobutadiene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
2-Hexanone	ND		40		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Isopropylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
4-Isopropyltoluene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Methylene Chloride	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
4-Methyl-2-pentanone (MIBK)	ND		40		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Naphthalene	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
N-Propylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Styrene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1,1,2-Tetrachloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1

Client Sample ID: A-15-010-2

Date Collected: 05/06/15 09:31
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-34

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Tetrachloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Toluene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2,3-Trichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2,4-Trichlorobenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1,1-Trichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1,2-Trichloroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Trichloroethene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Trichlorofluoromethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2,3-Trichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,2,4-Trimethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
1,3,5-Trimethylbenzene	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Vinyl acetate	ND	*	16		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Vinyl chloride	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Xylenes, Total	ND		7.9		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
2,2-Dichloropropane	ND		4.0		ug/Kg		05/07/15 21:15	05/12/15 17:30	1
Gasoline Range Organics (GRO) -C5-C12	ND		200		ug/Kg		05/07/15 21:15	05/12/15 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*05/07/15 21:15*	*05/12/15 17:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 140*	*05/07/15 21:15*	*05/12/15 17:30*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*05/07/15 21:15*	*05/12/15 17:30*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/12/15 13:26	05/12/15 23:48	1
Diesel Range Organics [C9-C24]	**4.0**		0.99		mg/Kg		05/12/15 13:26	05/12/15 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*70*		*40 - 130*	*05/12/15 13:26*	*05/12/15 23:48*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Dieldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Endrin aldehyde	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Endrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Endrin ketone	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Heptachlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
4,4'-DDT	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
4,4'-DDE	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
4,4'-DDD	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Endosulfan I	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Endosulfan II	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
alpha-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
beta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
delta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1

Client Sample ID: A-15-010-2

Date Collected: 05/06/15 09:31
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-34

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Methoxychlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Toxaphene	ND		40		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
Chlordane (technical)	ND		40		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
alpha-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1
gamma-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*57 - 122*	*05/13/15 08:55*	*05/14/15 12:03*	*1*
DCB Decachlorobiphenyl	*119*		*21 - 136*	*05/13/15 08:55*	*05/14/15 12:03*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1
PCB-1221	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1
PCB-1232	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1
PCB-1242	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1
PCB-1248	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1
PCB-1254	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1
PCB-1260	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*45 - 132*	*05/13/15 09:02*	*05/13/15 21:05*	*1*
DCB Decachlorobiphenyl	*86*		*42 - 146*	*05/13/15 09:02*	*05/13/15 21:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.8**		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:29	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-010-3

Date Collected: 05/06/15 09:25
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-35

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Acetone	ND		36		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Benzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Dichlorobromomethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Bromobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Chlorobromomethane	ND		15		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Bromoform	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Bromomethane	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
2-Butanone (MEK)	ND		36		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
n-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
sec-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
tert-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Carbon disulfide	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Carbon tetrachloride	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Chlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Chloroethane	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Chloroform	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Chloromethane	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
2-Chlorotoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
4-Chlorotoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Chlorodibromomethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,3-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,4-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,3-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2-Dibromo-3-Chloropropane	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Ethylene Dibromide	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Dibromomethane	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Dichlorodifluoromethane	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1-Dichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2-Dichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
cis-1,2-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
trans-1,2-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
cis-1,3-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
trans-1,3-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Ethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Hexachlorobutadiene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
2-Hexanone	ND		36		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Isopropylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
4-Isopropyltoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Methylene Chloride	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
4-Methyl-2-pentanone (MIBK)	ND		36		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Naphthalene	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
N-Propylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Styrene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1,1,2-Tetrachloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1

Client Sample ID: A-15-010-3

Date Collected: 05/06/15 09:25
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-35

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Tetrachloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Toluene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2,3-Trichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2,4-Trichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1,1-Trichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1,2-Trichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Trichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Trichlorofluoromethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2,3-Trichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,2,4-Trimethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
1,3,5-Trimethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Vinyl acetate	ND		15		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Vinyl chloride	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Xylenes, Total	ND		7.3		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
2,2-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/11/15 23:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/07/15 21:15	05/11/15 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*88*		*45 - 131*	*05/07/15 21:15*	*05/11/15 23:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*60 - 140*	*05/07/15 21:15*	*05/11/15 23:12*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*05/07/15 21:15*	*05/11/15 23:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/12/15 13:26	05/12/15 22:49	1
Diesel Range Organics [C9-C24]	**2.1**		1.0		mg/Kg		05/12/15 13:26	05/12/15 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*83*		*40 - 130*	*05/12/15 13:26*	*05/12/15 22:49*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Dieldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Endrin aldehyde	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Endrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Endrin ketone	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Heptachlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
4,4'-DDT	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
4,4'-DDE	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
4,4'-DDD	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Endosulfan I	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Endosulfan II	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
alpha-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
beta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
delta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1

Client Sample ID: A-15-010-3

Date Collected: 05/06/15 09:25
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-35

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Methoxychlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Toxaphene	ND		40		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
Chlordane (technical)	ND		40		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
alpha-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1
gamma-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*57 - 122*	*05/13/15 08:55*	*05/14/15 12:20*	*1*
DCB Decachlorobiphenyl	*67*	*p*	*21 - 136*	*05/13/15 08:55*	*05/14/15 12:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1
PCB-1221	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1
PCB-1232	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1
PCB-1242	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1
PCB-1248	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1
PCB-1254	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1
PCB-1260	ND		50		ug/Kg		05/13/15 09:02	05/13/15 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*45 - 132*	*05/13/15 09:02*	*05/13/15 21:22*	*1*
DCB Decachlorobiphenyl	*89*		*42 - 146*	*05/13/15 09:02*	*05/13/15 21:22*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Arsenic	**6.0**		3.4		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Barium	**23**		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Beryllium	ND		0.34		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Cadmium	ND		0.42		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Chromium	**46**		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Cobalt	**10**		0.67		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Copper	**19**		5.0		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Lead	**5.9**		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Molybdenum	ND		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Nickel	**51**		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Selenium	ND		3.4		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Silver	ND		0.84		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Thallium	ND		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Vanadium	**38**		1.7		mg/Kg		05/12/15 21:35	05/14/15 02:44	4
Zinc	**43**		5.0		mg/Kg		05/12/15 21:35	05/14/15 02:44	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.043**		0.0086		mg/Kg		05/13/15 18:57	05/14/15 16:11	1

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-011-1.5

Lab Sample ID: 720-64632-36

Date Collected: 05/05/15 08:32
Matrix: Solid
Date Received: 05/07/15 15:30

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		1.6		mg/Kg		05/13/15 14:13	05/14/15 01:00	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-011-2

Date Collected: 05/05/15 08:42
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-37

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Acetone	ND		36		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Benzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Dichlorobromomethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Bromobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Chlorobromomethane	ND		14		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Bromoform	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Bromomethane	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
2-Butanone (MEK)	ND		36		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
n-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
sec-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
tert-Butylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Carbon disulfide	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Carbon tetrachloride	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Chlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Chloroethane	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Chloroform	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Chloromethane	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
2-Chlorotoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
4-Chlorotoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Chlorodibromomethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,3-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,4-Dichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,3-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2-Dibromo-3-Chloropropane	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Ethylene Dibromide	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Dibromomethane	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Dichlorodifluoromethane	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1-Dichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2-Dichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
cis-1,2-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
trans-1,2-Dichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
cis-1,3-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
trans-1,3-Dichloropropene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Ethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Hexachlorobutadiene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
2-Hexanone	ND		36		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Isopropylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
4-Isopropyltoluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Methylene Chloride	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
4-Methyl-2-pentanone (MIBK)	ND		36		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Naphthalene	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
N-Propylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Styrene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1,1,2-Tetrachloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1

Client Sample ID: A-15-011-2

Date Collected: 05/05/15 08:42
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-37

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Tetrachloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Toluene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2,3-Trichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2,4-Trichlorobenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1,1-Trichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1,2-Trichloroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Trichloroethene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Trichlorofluoromethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2,3-Trichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,2,4-Trimethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
1,3,5-Trimethylbenzene	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Vinyl acetate	ND	*	14		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Vinyl chloride	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Xylenes, Total	ND		7.1		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
2,2-Dichloropropane	ND		3.6		ug/Kg		05/07/15 21:15	05/12/15 15:36	1
Gasoline Range Organics (GRO) -C5-C12	ND		180		ug/Kg		05/07/15 21:15	05/12/15 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*45 - 131*	*05/07/15 21:15*	*05/12/15 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*	*05/07/15 21:15*	*05/12/15 15:36*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*05/07/15 21:15*	*05/12/15 15:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	**68**		49		mg/Kg		05/12/15 13:26	05/13/15 00:17	1
Diesel Range Organics [C9-C24]	**11**		0.99		mg/Kg		05/12/15 13:26	05/13/15 00:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*72*		*40 - 130*	*05/12/15 13:26*	*05/13/15 00:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Dieldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Endrin aldehyde	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Endrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Endrin ketone	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Heptachlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
4,4'-DDT	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
4,4'-DDE	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
4,4'-DDD	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Endosulfan I	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Endosulfan II	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
alpha-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
beta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1

Client Sample ID: A-15-011-2

Date Collected: 05/05/15 08:42
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-37

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Methoxychlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Toxaphene	ND		39		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
Chlordane (technical)	ND		39		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
alpha-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1
gamma-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*57 - 122*	*05/13/15 08:55*	*05/14/15 12:38*	*1*
DCB Decachlorobiphenyl	*97*		*21 - 136*	*05/13/15 08:55*	*05/14/15 12:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1
PCB-1221	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1
PCB-1232	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1
PCB-1242	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1
PCB-1248	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1
PCB-1254	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1
PCB-1260	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 132*	*05/13/15 09:02*	*05/14/15 04:23*	*1*
DCB Decachlorobiphenyl	*82*		*42 - 146*	*05/13/15 09:02*	*05/14/15 04:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		1.6		mg/Kg		05/12/15 21:35	05/14/15 02:49	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-011-3

Date Collected: 05/05/15 08:46
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-38

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Acetone	ND		31		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Benzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Dichlorobromomethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Bromobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Chlorobromomethane	ND		13		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Bromoform	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Bromomethane	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
2-Butanone (MEK)	ND		31		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
n-Butylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
sec-Butylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
tert-Butylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Carbon disulfide	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Carbon tetrachloride	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Chlorobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Chloroethane	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Chloroform	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Chloromethane	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
2-Chlorotoluene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
4-Chlorotoluene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Chlorodibromomethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2-Dichlorobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,3-Dichlorobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,4-Dichlorobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,3-Dichloropropane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1-Dichloropropene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2-Dibromo-3-Chloropropane	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Ethylene Dibromide	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Dibromomethane	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Dichlorodifluoromethane	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1-Dichloroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2-Dichloroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1-Dichloroethene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
cis-1,2-Dichloroethene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
trans-1,2-Dichloroethene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2-Dichloropropane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
cis-1,3-Dichloropropene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
trans-1,3-Dichloropropene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Ethylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Hexachlorobutadiene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
2-Hexanone	ND		31		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Isopropylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
4-Isopropyltoluene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Methylene Chloride	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
4-Methyl-2-pentanone (MIBK)	ND		31		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Naphthalene	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
N-Propylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Styrene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1,1,2-Tetrachloroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1

Client Sample ID: A-15-011-3

Date Collected: 05/05/15 08:46
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-38

Matrix: Solid

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Tetrachloroethene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Toluene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2,3-Trichlorobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2,4-Trichlorobenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1,1-Trichloroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1,2-Trichloroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Trichloroethene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Trichlorofluoromethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2,3-Trichloropropane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,2,4-Trimethylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
1,3,5-Trimethylbenzene	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Vinyl acetate	ND	*	13		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Vinyl chloride	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Xylenes, Total	ND		6.3		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
2,2-Dichloropropane	ND		3.1		ug/Kg		05/07/15 21:15	05/12/15 17:59	1
Gasoline Range Organics (GRO) -C5-C12	ND		160		ug/Kg		05/07/15 21:15	05/12/15 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*45 - 131*	*05/07/15 21:15*	*05/12/15 17:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*60 - 140*	*05/07/15 21:15*	*05/12/15 17:59*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*05/07/15 21:15*	*05/12/15 17:59*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/12/15 13:26	05/12/15 22:20	1
Diesel Range Organics [C9-C24]	ND		0.99		mg/Kg		05/12/15 13:26	05/12/15 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*107*		*40 - 130*	*05/12/15 13:26*	*05/12/15 22:20*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Dieldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Endrin aldehyde	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Endrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Endrin ketone	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Heptachlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
4,4'-DDT	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
4,4'-DDE	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
4,4'-DDD	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Endosulfan I	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Endosulfan II	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
alpha-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
beta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
delta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1

Client Sample ID: A-15-011-3

Date Collected: 05/05/15 08:46
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-38

Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan sulfate	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Methoxychlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Toxaphene	ND		39		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
Chlordane (technical)	ND		39		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
alpha-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1
gamma-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*104*		*57 - 122*	*05/13/15 08:55*	*05/14/15 12:55*	*1*
DCB Decachlorobiphenyl	*91*		*21 - 136*	*05/13/15 08:55*	*05/14/15 12:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1
PCB-1221	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1
PCB-1232	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1
PCB-1242	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1
PCB-1248	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1
PCB-1254	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1
PCB-1260	ND		49		ug/Kg		05/13/15 09:02	05/14/15 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*45 - 132*	*05/13/15 09:02*	*05/14/15 04:39*	*1*
DCB Decachlorobiphenyl	*87*		*42 - 146*	*05/13/15 09:02*	*05/14/15 04:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**1.5**		1.3		mg/Kg		05/12/15 21:35	05/14/15 02:54	4

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: EB-1

Date Collected: 05/06/15 10:38
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-39

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/Kg			05/13/15 05:08	1
Acetone	ND		50		ug/Kg			05/13/15 05:08	1
Benzene	ND		0.50		ug/Kg			05/13/15 05:08	1
Dichlorobromomethane	ND		0.50		ug/Kg			05/13/15 05:08	1
Bromobenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
Chlorobromomethane	ND		1.0		ug/Kg			05/13/15 05:08	1
Bromoform	ND		1.0		ug/Kg			05/13/15 05:08	1
Bromomethane	ND		1.0		ug/Kg			05/13/15 05:08	1
2-Butanone (MEK)	ND		50		ug/Kg			05/13/15 05:08	1
n-Butylbenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
sec-Butylbenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
tert-Butylbenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
Carbon disulfide	ND		5.0		ug/Kg			05/13/15 05:08	1
Carbon tetrachloride	ND		0.50		ug/Kg			05/13/15 05:08	1
Chlorobenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
Chloroethane	ND		1.0		ug/Kg			05/13/15 05:08	1
Chloroform	ND		1.0		ug/Kg			05/13/15 05:08	1
Chloromethane	ND		1.0		ug/Kg			05/13/15 05:08	1
2-Chlorotoluene	ND		0.50		ug/Kg			05/13/15 05:08	1
4-Chlorotoluene	ND		0.50		ug/Kg			05/13/15 05:08	1
Chlorodibromomethane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,2-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,3-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,4-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,3-Dichloropropane	ND		1.0		ug/Kg			05/13/15 05:08	1
1,1-Dichloropropene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/Kg			05/13/15 05:08	1
Ethylene Dibromide	ND		0.50		ug/Kg			05/13/15 05:08	1
Dibromomethane	ND		0.50		ug/Kg			05/13/15 05:08	1
Dichlorodifluoromethane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,1-Dichloroethane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,2-Dichloroethane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,1-Dichloroethene	ND		0.50		ug/Kg			05/13/15 05:08	1
cis-1,2-Dichloroethene	ND		0.50		ug/Kg			05/13/15 05:08	1
trans-1,2-Dichloroethene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,2-Dichloropropane	ND		0.50		ug/Kg			05/13/15 05:08	1
cis-1,3-Dichloropropene	ND		0.50		ug/Kg			05/13/15 05:08	1
trans-1,3-Dichloropropene	ND		0.50		ug/Kg			05/13/15 05:08	1
Ethylbenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
Hexachlorobutadiene	ND		1.0		ug/Kg			05/13/15 05:08	1
2-Hexanone	ND		50		ug/Kg			05/13/15 05:08	1
Isopropylbenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
4-Isopropyltoluene	ND		1.0		ug/Kg			05/13/15 05:08	1
Methylene Chloride	ND		5.0		ug/Kg			05/13/15 05:08	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/13/15 05:08	1
Naphthalene	ND		1.0		ug/Kg			05/13/15 05:08	1
N-Propylbenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
Styrene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/Kg			05/13/15 05:08	1

Client Sample ID: EB-1

Lab Sample ID: 720-64632-39

Date Collected: 05/06/15 10:38

Matrix: Water

Date Received: 05/07/15 15:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/Kg			05/13/15 05:08	1
Tetrachloroethene	ND		0.50		ug/Kg			05/13/15 05:08	1
Toluene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,2,3-Trichlorobenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
1,2,4-Trichlorobenzene	ND		1.0		ug/Kg			05/13/15 05:08	1
1,1,1-Trichloroethane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,1,2-Trichloroethane	ND		0.50		ug/Kg			05/13/15 05:08	1
Trichloroethene	ND		0.50		ug/Kg			05/13/15 05:08	1
Trichlorofluoromethane	ND		1.0		ug/Kg			05/13/15 05:08	1
1,2,3-Trichloropropane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/Kg			05/13/15 05:08	1
1,2,4-Trimethylbenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
1,3,5-Trimethylbenzene	ND		0.50		ug/Kg			05/13/15 05:08	1
Vinyl acetate	ND		10		ug/Kg			05/13/15 05:08	1
Vinyl chloride	ND		0.50		ug/Kg			05/13/15 05:08	1
Xylenes, Total	ND		1.0		ug/Kg			05/13/15 05:08	1
2,2-Dichloropropane	ND		0.50		ug/Kg			05/13/15 05:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*05/13/15 05:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*72 - 130*		*05/13/15 05:08*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*05/13/15 05:08*	*1*

Client Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: EB-2

Date Collected: 05/06/15 11:12
Date Received: 05/07/15 15:30

Lab Sample ID: 720-64632-40

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/Kg			05/13/15 05:39	1
Acetone	ND		50		ug/Kg			05/13/15 05:39	1
Benzene	ND		0.50		ug/Kg			05/13/15 05:39	1
Dichlorobromomethane	ND		0.50		ug/Kg			05/13/15 05:39	1
Bromobenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
Chlorobromomethane	ND		1.0		ug/Kg			05/13/15 05:39	1
Bromoform	ND		1.0		ug/Kg			05/13/15 05:39	1
Bromomethane	ND		1.0		ug/Kg			05/13/15 05:39	1
2-Butanone (MEK)	ND		50		ug/Kg			05/13/15 05:39	1
n-Butylbenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
sec-Butylbenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
tert-Butylbenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
Carbon disulfide	ND		5.0		ug/Kg			05/13/15 05:39	1
Carbon tetrachloride	ND		0.50		ug/Kg			05/13/15 05:39	1
Chlorobenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
Chloroethane	ND		1.0		ug/Kg			05/13/15 05:39	1
Chloroform	ND		1.0		ug/Kg			05/13/15 05:39	1
Chloromethane	ND		1.0		ug/Kg			05/13/15 05:39	1
2-Chlorotoluene	ND		0.50		ug/Kg			05/13/15 05:39	1
4-Chlorotoluene	ND		0.50		ug/Kg			05/13/15 05:39	1
Chlorodibromomethane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,2-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,3-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,4-Dichlorobenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,3-Dichloropropane	ND		1.0		ug/Kg			05/13/15 05:39	1
1,1-Dichloropropene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/Kg			05/13/15 05:39	1
Ethylene Dibromide	ND		0.50		ug/Kg			05/13/15 05:39	1
Dibromomethane	ND		0.50		ug/Kg			05/13/15 05:39	1
Dichlorodifluoromethane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,1-Dichloroethane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,2-Dichloroethane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,1-Dichloroethene	ND		0.50		ug/Kg			05/13/15 05:39	1
cis-1,2-Dichloroethene	ND		0.50		ug/Kg			05/13/15 05:39	1
trans-1,2-Dichloroethene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,2-Dichloropropane	ND		0.50		ug/Kg			05/13/15 05:39	1
cis-1,3-Dichloropropene	ND		0.50		ug/Kg			05/13/15 05:39	1
trans-1,3-Dichloropropene	ND		0.50		ug/Kg			05/13/15 05:39	1
Ethylbenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
Hexachlorobutadiene	ND		1.0		ug/Kg			05/13/15 05:39	1
2-Hexanone	ND		50		ug/Kg			05/13/15 05:39	1
Isopropylbenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
4-Isopropyltoluene	ND		1.0		ug/Kg			05/13/15 05:39	1
Methylene Chloride	ND		5.0		ug/Kg			05/13/15 05:39	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/13/15 05:39	1
Naphthalene	ND		1.0		ug/Kg			05/13/15 05:39	1
N-Propylbenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
Styrene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,1,1,2-Tetrachloroethane	ND		0.50		ug/Kg			05/13/15 05:39	1

Client Sample ID: EB-2

Lab Sample ID: 720-64632-40

Date Collected: 05/06/15 11:12

Matrix: Water

Date Received: 05/07/15 15:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.50		ug/Kg			05/13/15 05:39	1
Tetrachloroethene	ND		0.50		ug/Kg			05/13/15 05:39	1
Toluene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,2,3-Trichlorobenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/Kg			05/13/15 05:39	1
1,1,1-Trichloroethane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,1,2-Trichloroethane	ND		0.50		ug/Kg			05/13/15 05:39	1
Trichloroethene	ND		0.50		ug/Kg			05/13/15 05:39	1
Trichlorofluoromethane	ND		1.0		ug/Kg			05/13/15 05:39	1
1,2,3-Trichloropropane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/Kg			05/13/15 05:39	1
1,2,4-Trimethylbenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
1,3,5-Trimethylbenzene	ND		0.50		ug/Kg			05/13/15 05:39	1
Vinyl acetate	ND		10		ug/Kg			05/13/15 05:39	1
Vinyl chloride	ND		0.50		ug/Kg			05/13/15 05:39	1
Xylenes, Total	ND		1.0		ug/Kg			05/13/15 05:39	1
2,2-Dichloropropane	ND		0.50		ug/Kg			05/13/15 05:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*67 - 130*		*05/13/15 05:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*72 - 130*		*05/13/15 05:39*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/13/15 05:39*	*1*

Surrogate Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (67-130)	12DCE (72-130)	TOL (70-130)
720-64632-19	A-15-005-6GW	104	106	102
720-64632-39	EB-1	104	104	99
720-64632-40	EB-2	104	103	101
720-64645-A-1 MS	Matrix Spike	102	101	104
720-64645-A-1 MSD	Matrix Spike Duplicate	104	101	101
LCS 720-181490/5	Lab Control Sample	104	97	102
LCS 720-181490/7	Lab Control Sample	105	100	101
LCSD 720-181490/6	Lab Control Sample Dup	104	100	104
LCSD 720-181490/8	Lab Control Sample Dup	106	102	101
MB 720-181490/4	Method Blank	105	98	101

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (45-131)	12DCE (60-140)	TOL (58-140)
720-64632-1	A-15-001-1.5	92	85	95
720-64632-3	A-15-001-3	86	89	95
720-64632-4	A-15-001-6	85	89	93
720-64632-5	A-15-002-1.5	89	88	93
720-64632-6	A-15-002-2	80	79	91
720-64632-7	A-15-002-3	84	82	92
720-64632-9	A-15-003-2	151 X	92	90
720-64632-13	A-15-004-2	81	90	88
720-64632-15	A-15-005-1.5	93	94	92
720-64632-18	A-15-005-6	85	89	94
720-64632-20	A-15-006-1.5	89	81	93
720-64632-21	A-15-006-2	88	77	94
720-64632-22	A-15-006-3	87	76	92
720-64632-25	A-15-007-3	87	77	94
720-64632-27	A-15-008-1	81	79	91
720-64632-30	A-15-009-1	72	90	88
720-64632-31	A-15-009-2	69	81	85
720-64632-32	A-15-009-3	71	92	87
720-64632-33	A-15-010-1	90	81	95
720-64632-34	A-15-010-2	85	83	91
720-64632-35	A-15-010-3	88	82	93
720-64632-37	A-15-011-2	86	94	92
720-64632-38	A-15-011-3	96	89	94
LCS 720-181271/6	Lab Control Sample	90	92	97
LCS 720-181271/8	Lab Control Sample	96	97	95
LCS 720-181341/6	Lab Control Sample	93	85	98
LCS 720-181341/8	Lab Control Sample	93	85	98

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (45-131)	12DCE (60-140)	TOL (58-140)
LCS 720-181390/6	Lab Control Sample	90	80	96
LCS 720-181390/8	Lab Control Sample	93	79	95
LCS 720-181428/5	Lab Control Sample	91	96	100
LCS 720-181428/7	Lab Control Sample	95	94	97
LCSD 720-181271/7	Lab Control Sample Dup	96	100	101
LCSD 720-181271/9	Lab Control Sample Dup	93	95	96
LCSD 720-181341/7	Lab Control Sample Dup	90	83	98
LCSD 720-181341/9	Lab Control Sample Dup	93	85	95
LCSD 720-181390/7	Lab Control Sample Dup	89	79	96
LCSD 720-181390/9	Lab Control Sample Dup	92	81	95
LCSD 720-181428/6	Lab Control Sample Dup	94	97	102
LCSD 720-181428/8	Lab Control Sample Dup	95	99	98
MB 720-181271/5	Method Blank	95	93	98
MB 720-181341/5	Method Blank	90	86	93
MB 720-181390/5	Method Blank	89	84	92
MB 720-181428/4	Method Blank	95	93	94

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (66-148)	12DCE (62-137)	TOL (65-141)
720-64632-11	A-15-003-6	132	95	103
LCS 720-181623/15	Lab Control Sample	104	96	101
LCS 720-181623/5	Lab Control Sample	105	95	102
LCSD 720-181623/16	Lab Control Sample Dup	105	94	101
LCSD 720-181623/6	Lab Control Sample Dup	105	96	103
MB 720-181623/4	Method Blank	108	123	102

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	PTP1 (40-130)
720-64632-1	A-15-001-1.5	117
720-64632-3	A-15-001-3	79
720-64632-4	A-15-001-6	128
720-64632-5	A-15-002-1.5	119

Surrogate Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	**Client Sample ID**	**PTP1 (40-130)**						
720-64632-6	A-15-002-2	110						
720-64632-7	A-15-002-3	98						
720-64632-9	A-15-003-2	83						
720-64632-11	A-15-003-6	0 X D						
720-64632-13	A-15-004-2	70						
720-64632-15	A-15-005-1.5	57						
720-64632-18	A-15-005-6	116						
720-64632-20	A-15-006-1.5	0 X D						
720-64632-21	A-15-006-2	88						
720-64632-22	A-15-006-3	95						
720-64632-25	A-15-007-3	106						
720-64632-27	A-15-008-1	0 X D						
720-64632-30	A-15-009-1	61						
720-64632-31	A-15-009-2	0 X D						
720-64632-32	A-15-009-3	95						
720-64632-33	A-15-010-1	0 X D						
720-64632-34	A-15-010-2	70						
720-64632-35	A-15-010-3	83						
720-64632-37	A-15-011-2	72						
720-64632-38	A-15-011-3	107						
720-64639-A-4-C MS	Matrix Spike	70						
720-64639-A-4-D MSD	Matrix Spike Duplicate	64						
720-64661-A-1-A MS	Matrix Spike	88						
720-64661-A-1-B MSD	Matrix Spike Duplicate	92						
LCS 720-181296/2-A	Lab Control Sample	108						
LCS 720-181458/2-A	Lab Control Sample	86						
MB 720-181296/1-A	Method Blank	110						
MB 720-181458/1-A	Method Blank	100						

Surrogate Legend

PTP = p-Terphenyl

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	**Client Sample ID**	**PTP1 (23-156)**						
720-64632-19	A-15-005-6GW	96						
LCS 720-181383/2-A	Lab Control Sample	112						
LCSD 720-181383/3-A	Lab Control Sample Dup	102						
MB 720-181383/1-A	Method Blank	103						

Surrogate Legend

PTP = p-Terphenyl

Surrogate Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB1
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-64632-1	A-15-001-1.5	101	99
720-64632-3	A-15-001-3	102	94
720-64632-5 MS	A-15-002-1.5	97	111
720-64632-13	A-15-004-2	88	91
720-64632-20	A-15-006-1.5	98	89
720-64632-21	A-15-006-2	93	80
720-64632-22	A-15-006-3	100	87
720-64632-25	A-15-007-3	99	85
720-64632-31	A-15-009-2	119	108
720-64632-32	A-15-009-3	96	87
720-64632-33	A-15-010-1	96	83
LCS 720-181486/2-A	Lab Control Sample	105	105

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-64632-7	A-15-002-3	94	92
720-64632-11	A-15-003-6	105	89
720-64632-15	A-15-005-1.5	98	68
720-64632-18	A-15-005-6	105	78
720-64632-27	A-15-008-1	82	85
720-64632-30	A-15-009-1	92	97
720-64632-37	A-15-011-2	96	97
720-64632-38	A-15-011-3	104	91
720-64634-A-15-G MS	Matrix Spike	94	97
720-64634-A-15-H MSD	Matrix Spike Duplicate	94	102

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB2
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-64632-4	A-15-001-6	111	75
720-64632-6	A-15-002-2	94	79 p
720-64632-9	A-15-003-2	118	91
720-64632-34	A-15-010-2	91	119

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-64632-5	A-15-002-1.5	98	101
720-64632-5 MSD	A-15-002-1.5	93	99
720-64632-35	A-15-010-3	88	67 p
LCS 720-181539/2-A	Lab Control Sample	92	99
MB 720-181486/1-A	Method Blank	99	116
MB 720-181539/1-A	Method Blank	97	101

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(36-112)	(14-126)
720-64632-19	A-15-005-6GW	69	21

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB2
Lab Sample ID	Client Sample ID	(36-112)	(14-126)
LCS 720-181441/2-A	Lab Control Sample	98	105
LCSD 720-181441/3-A	Lab Control Sample Dup	93	101
MB 720-181441/1-A	Method Blank	91	101

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(45-132)	(42-146)
720-64632-1	A-15-001-1.5	86	94
720-64632-3	A-15-001-3	90	94
720-64632-4	A-15-001-6	76	88
720-64632-5	A-15-002-1.5	79	84

Surrogate Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(45-132)	(42-146)
720-64632-5 MS	A-15-002-1.5	78	83
720-64632-5 MS	A-15-002-1.5	84	95
720-64632-5 MSD	A-15-002-1.5	76	81
720-64632-5 MSD	A-15-002-1.5	82	94
720-64632-6	A-15-002-2	73	80
720-64632-7	A-15-002-3	73	82
720-64632-9	A-15-003-2	78	83
720-64632-11	A-15-003-6	78	85
720-64632-13	A-15-004-2	75	80
720-64632-15	A-15-005-1.5	78	80
720-64632-18	A-15-005-6	80	86
720-64632-20	A-15-006-1.5	83	87
720-64632-21	A-15-006-2	80	83
720-64632-22	A-15-006-3	83	86
720-64632-25	A-15-007-3	90	87
720-64632-27	A-15-008-1	90	88
720-64632-30	A-15-009-1	77	74
720-64632-31	A-15-009-2	81	74
720-64632-32	A-15-009-3	91	92
720-64632-33	A-15-010-1	90	81
720-64632-34	A-15-010-2	87	86
720-64632-35	A-15-010-3	80	89
720-64632-37	A-15-011-2	75	82
720-64632-38	A-15-011-3	78	87
720-64639-A-3-H MS	Matrix Spike	82	81
720-64639-A-3-I MSD	Matrix Spike Duplicate	79	79
LCS 720-181484/2-A	Lab Control Sample	83	86
LCS 720-181484/2-A	Lab Control Sample	93	101
LCS 720-181540/2-A	Lab Control Sample	79	86
LCS 720-181540/2-A	Lab Control Sample	88	99
MB 720-181484/1-A	Method Blank	85	88
MB 720-181484/1-A	Method Blank	92	100
MB 720-181540/1-A	Method Blank	75	84
MB 720-181540/1-A	Method Blank	84	96

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(19-98)	(10-122)
720-64632-19	A-15-005-6GW	62	21
LCS 720-181442/2-A	Lab Control Sample	81	85
LCSD 720-181442/3-A	Lab Control Sample Dup	78	85
MB 720-181442/1-A	Method Blank	85	85

Surrogate Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-181490/4
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		0.50		ug/Kg			05/12/15 19:58	1
Acetone	ND		50		ug/Kg			05/12/15 19:58	1
Benzene	ND		0.50		ug/Kg			05/12/15 19:58	1
Dichlorobromomethane	ND		0.50		ug/Kg			05/12/15 19:58	1
Bromobenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
Chlorobromomethane	ND		1.0		ug/Kg			05/12/15 19:58	1
Bromoform	ND		1.0		ug/Kg			05/12/15 19:58	1
Bromomethane	ND		1.0		ug/Kg			05/12/15 19:58	1
2-Butanone (MEK)	ND		50		ug/Kg			05/12/15 19:58	1
n-Butylbenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
sec-Butylbenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
tert-Butylbenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
Carbon disulfide	ND		5.0		ug/Kg			05/12/15 19:58	1
Carbon tetrachloride	ND		0.50		ug/Kg			05/12/15 19:58	1
Chlorobenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
Chloroethane	ND		1.0		ug/Kg			05/12/15 19:58	1
Chloroform	ND		1.0		ug/Kg			05/12/15 19:58	1
Chloromethane	ND		1.0		ug/Kg			05/12/15 19:58	1
2-Chlorotoluene	ND		0.50		ug/Kg			05/12/15 19:58	1
4-Chlorotoluene	ND		0.50		ug/Kg			05/12/15 19:58	1
Chlorodibromomethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,2-Dichlorobenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,3-Dichlorobenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,4-Dichlorobenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,3-Dichloropropane	ND		1.0		ug/Kg			05/12/15 19:58	1
1,1-Dichloropropene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/Kg			05/12/15 19:58	1
Ethylene Dibromide	ND		0.50		ug/Kg			05/12/15 19:58	1
Dibromomethane	ND		0.50		ug/Kg			05/12/15 19:58	1
Dichlorodifluoromethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,1-Dichloroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,2-Dichloroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,1-Dichloroethene	ND		0.50		ug/Kg			05/12/15 19:58	1
cis-1,2-Dichloroethene	ND		0.50		ug/Kg			05/12/15 19:58	1
trans-1,2-Dichloroethene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,2-Dichloropropane	ND		0.50		ug/Kg			05/12/15 19:58	1
cis-1,3-Dichloropropene	ND		0.50		ug/Kg			05/12/15 19:58	1
trans-1,3-Dichloropropene	ND		0.50		ug/Kg			05/12/15 19:58	1
Ethylbenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
Hexachlorobutadiene	ND		1.0		ug/Kg			05/12/15 19:58	1
2-Hexanone	ND		50		ug/Kg			05/12/15 19:58	1
Isopropylbenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
4-Isopropyltoluene	ND		1.0		ug/Kg			05/12/15 19:58	1
Methylene Chloride	ND		5.0		ug/Kg			05/12/15 19:58	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/12/15 19:58	1
Naphthalene	ND		1.0		ug/Kg			05/12/15 19:58	1
N-Propylbenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
Styrene	ND		0.50		ug/Kg			05/12/15 19:58	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-181490/4
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,1,2,2-Tetrachloroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
Tetrachloroethene	ND		0.50		ug/Kg			05/12/15 19:58	1
Toluene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,2,3-Trichlorobenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
1,2,4-Trichlorobenzene	ND		1.0		ug/Kg			05/12/15 19:58	1
1,1,1-Trichloroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,1,2-Trichloroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
Trichloroethene	ND		0.50		ug/Kg			05/12/15 19:58	1
Trichlorofluoromethane	ND		1.0		ug/Kg			05/12/15 19:58	1
1,2,3-Trichloropropane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50		ug/Kg			05/12/15 19:58	1
1,2,4-Trimethylbenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
1,3,5-Trimethylbenzene	ND		0.50		ug/Kg			05/12/15 19:58	1
Vinyl acetate	ND		10		ug/Kg			05/12/15 19:58	1
Vinyl chloride	ND		0.50		ug/Kg			05/12/15 19:58	1
Xylenes, Total	ND		1.0		ug/Kg			05/12/15 19:58	1
2,2-Dichloropropane	ND		0.50		ug/Kg			05/12/15 19:58	1
Gasoline Range Organics (GRO) -C5-C12	ND		50		ug/L			05/12/15 19:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*67 - 130*		*05/12/15 19:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*72 - 130*		*05/12/15 19:58*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*05/12/15 19:58*	*1*

Lab Sample ID: LCS 720-181490/5
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	25.0	24.9		ug/Kg		100	62 - 130
Acetone	125	122		ug/Kg		97	26 - 180
Benzene	25.0	25.0		ug/Kg		100	79 - 130
Dichlorobromomethane	25.0	24.6		ug/Kg		99	70 - 130
Bromobenzene	25.0	25.9		ug/Kg		104	70 - 130
Chlorobromomethane	25.0	24.9		ug/Kg		100	70 - 130
Bromoform	25.0	27.4		ug/Kg		110	68 - 136
Bromomethane	25.0	24.1		ug/Kg		97	43 - 151
2-Butanone (MEK)	125	131		ug/Kg		105	54 - 130
n-Butylbenzene	25.0	26.8		ug/Kg		107	70 - 142
sec-Butylbenzene	25.0	26.4		ug/Kg		106	70 - 134
tert-Butylbenzene	25.0	26.2		ug/Kg		105	70 - 135
Carbon disulfide	25.0	24.2		ug/Kg		97	58 - 130
Carbon tetrachloride	25.0	26.0		ug/Kg		104	70 - 146
Chlorobenzene	25.0	25.9		ug/Kg		103	70 - 130
Chloroethane	25.0	24.7		ug/Kg		99	62 - 138
Chloroform	25.0	24.6		ug/Kg		98	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-181490/5
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	25.0	21.6		ug/Kg		86	52 - 175
2-Chlorotoluene	25.0	25.8		ug/Kg		103	70 - 130
4-Chlorotoluene	25.0	25.4		ug/Kg		102	70 - 130
Chlorodibromomethane	25.0	25.9		ug/Kg		104	70 - 145
1,2-Dichlorobenzene	25.0	25.4		ug/Kg		102	70 - 130
1,3-Dichlorobenzene	25.0	25.5		ug/Kg		102	70 - 130
1,4-Dichlorobenzene	25.0	25.6		ug/Kg		102	70 - 130
1,3-Dichloropropane	25.0	25.1		ug/Kg		100	70 - 130
1,1-Dichloropropene	25.0	27.4		ug/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	25.0	26.7		ug/Kg		107	70 - 136
Ethylene Dibromide	25.0	26.0		ug/Kg		104	70 - 130
Dibromomethane	25.0	25.5		ug/Kg		102	70 - 130
Dichlorodifluoromethane	25.0	18.8		ug/Kg		75	34 - 132
1,1-Dichloroethane	25.0	25.0		ug/Kg		100	70 - 130
1,2-Dichloroethane	25.0	24.5		ug/Kg		98	61 - 132
1,1-Dichloroethene	25.0	22.5		ug/Kg		90	64 - 128
cis-1,2-Dichloroethene	25.0	24.7		ug/Kg		99	70 - 130
trans-1,2-Dichloroethene	25.0	24.1		ug/Kg		97	68 - 130
1,2-Dichloropropane	25.0	24.9		ug/Kg		99	70 - 130
cis-1,3-Dichloropropene	25.0	26.4		ug/Kg		106	70 - 130
trans-1,3-Dichloropropene	25.0	28.5		ug/Kg		114	70 - 140
Ethylbenzene	25.0	26.4		ug/Kg		106	80 - 120
Hexachlorobutadiene	25.0	24.9		ug/Kg		100	70 - 130
2-Hexanone	125	129		ug/Kg		103	60 - 164
Isopropylbenzene	25.0	26.8		ug/Kg		107	70 - 130
4-Isopropyltoluene	25.0	26.2		ug/Kg		105	70 - 130
Methylene Chloride	25.0	23.2		ug/Kg		93	70 - 147
4-Methyl-2-pentanone (MIBK)	125	125		ug/Kg		100	58 - 130
Naphthalene	25.0	25.4		ug/Kg		102	70 - 130
N-Propylbenzene	25.0	26.7		ug/Kg		107	70 - 130
Styrene	25.0	25.4		ug/Kg		102	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.1		ug/Kg		105	70 - 130
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/Kg		102	70 - 130
Tetrachloroethene	25.0	26.4		ug/Kg		106	70 - 130
Toluene	25.0	26.0		ug/Kg		104	78 - 120
1,2,3-Trichlorobenzene	25.0	24.6		ug/Kg		98	70 - 130
1,2,4-Trichlorobenzene	25.0	25.5		ug/Kg		102	70 - 130
1,1,1-Trichloroethane	25.0	25.1		ug/Kg		100	70 - 130
1,1,2-Trichloroethane	25.0	25.2		ug/Kg		101	70 - 130
Trichloroethene	25.0	26.2		ug/Kg		105	70 - 130
Trichlorofluoromethane	25.0	24.1		ug/Kg		96	66 - 132
1,2,3-Trichloropropane	25.0	27.1		ug/Kg		108	70 - 130
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	24.4		ug/Kg		98	42 - 162
1,2,4-Trimethylbenzene	25.0	25.8		ug/Kg		103	70 - 132
1,3,5-Trimethylbenzene	25.0	26.1		ug/Kg		104	70 - 130
Vinyl acetate	25.0	24.6		ug/Kg		98	43 - 163
Vinyl chloride	25.0	23.0		ug/Kg		92	54 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-181490/5
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	25.0	26.5		ug/Kg		106	70 - 142
o-Xylene	25.0	25.9		ug/Kg		104	70 - 130
2,2-Dichloropropane	25.0	23.7		ug/Kg		95	70 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*72 - 130*
Toluene-d8 (Surr)	*102*		*70 - 130*

Lab Sample ID: LCS 720-181490/7
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	500	493		ug/L		99	62 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*67 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*72 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 720-181490/6
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	25.0	25.7		ug/Kg		103	62 - 130	3	20
Acetone	125	120		ug/Kg		96	26 - 180	1	30
Benzene	25.0	25.0		ug/Kg		100	79 - 130	0	20
Dichlorobromomethane	25.0	25.3		ug/Kg		101	70 - 130	3	20
Bromobenzene	25.0	25.9		ug/Kg		104	70 - 130	0	20
Chlorobromomethane	25.0	25.6		ug/Kg		102	70 - 130	3	20
Bromoform	25.0	27.6		ug/Kg		111	68 - 136	1	20
Bromomethane	25.0	24.3		ug/Kg		97	43 - 151	1	20
2-Butanone (MEK)	125	124		ug/Kg		99	54 - 130	5	20
n-Butylbenzene	25.0	26.2		ug/Kg		105	70 - 142	2	20
sec-Butylbenzene	25.0	25.8		ug/Kg		103	70 - 134	2	20
tert-Butylbenzene	25.0	25.8		ug/Kg		103	70 - 135	2	20
Carbon disulfide	25.0	23.6		ug/Kg		94	58 - 130	3	20
Carbon tetrachloride	25.0	25.6		ug/Kg		102	70 - 146	2	20
Chlorobenzene	25.0	25.9		ug/Kg		104	70 - 130	0	20
Chloroethane	25.0	24.5		ug/Kg		98	62 - 138	1	20
Chloroform	25.0	24.8		ug/Kg		99	70 - 130	1	20
Chloromethane	25.0	21.5		ug/Kg		86	52 - 175	1	20
2-Chlorotoluene	25.0	25.8		ug/Kg		103	70 - 130	0	20
4-Chlorotoluene	25.0	25.6		ug/Kg		103	70 - 130	1	20
Chlorodibromomethane	25.0	26.5		ug/Kg		106	70 - 145	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-181490/6
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	25.0	25.7		ug/Kg		103	70 - 130	1	20
1,3-Dichlorobenzene	25.0	25.5		ug/Kg		102	70 - 130	0	20
1,4-Dichlorobenzene	25.0	25.6		ug/Kg		102	70 - 130	0	20
1,3-Dichloropropane	25.0	25.1		ug/Kg		101	70 - 130	0	20
1,1-Dichloropropene	25.0	26.9		ug/Kg		108	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	25.0	26.9		ug/Kg		108	70 - 136	1	20
Ethylene Dibromide	25.0	26.6		ug/Kg		106	70 - 130	2	20
Dibromomethane	25.0	26.1		ug/Kg		104	70 - 130	3	20
Dichlorodifluoromethane	25.0	18.1		ug/Kg		72	34 - 132	4	20
1,1-Dichloroethane	25.0	25.1		ug/Kg		100	70 - 130	0	20
1,2-Dichloroethane	25.0	24.9		ug/Kg		100	61 - 132	2	20
1,1-Dichloroethene	25.0	22.4		ug/Kg		89	64 - 128	1	20
cis-1,2-Dichloroethene	25.0	24.8		ug/Kg		99	70 - 130	0	20
trans-1,2-Dichloroethene	25.0	23.8		ug/Kg		95	68 - 130	1	20
1,2-Dichloropropane	25.0	25.2		ug/Kg		101	70 - 130	1	20
cis-1,3-Dichloropropene	25.0	27.0		ug/Kg		108	70 - 130	2	20
trans-1,3-Dichloropropene	25.0	29.3		ug/Kg		117	70 - 140	3	20
Ethylbenzene	25.0	25.9		ug/Kg		104	80 - 120	2	20
Hexachlorobutadiene	25.0	25.0		ug/Kg		100	70 - 130	0	20
2-Hexanone	125	130		ug/Kg		104	60 - 164	0	20
Isopropylbenzene	25.0	26.3		ug/Kg		105	70 - 130	2	20
4-Isopropyltoluene	25.0	25.7		ug/Kg		103	70 - 130	2	20
Methylene Chloride	25.0	23.4		ug/Kg		93	70 - 147	1	20
4-Methyl-2-pentanone (MIBK)	125	127		ug/Kg		102	58 - 130	1	20
Naphthalene	25.0	25.8		ug/Kg		103	70 - 130	2	20
N-Propylbenzene	25.0	26.3		ug/Kg		105	70 - 130	1	20
Styrene	25.0	25.5		ug/Kg		102	70 - 130	0	20
1,1,1,2-Tetrachloroethane	25.0	26.4		ug/Kg		106	70 - 130	1	20
1,1,2,2-Tetrachloroethane	25.0	26.0		ug/Kg		104	70 - 130	2	20
Tetrachloroethene	25.0	26.4		ug/Kg		105	70 - 130	0	20
Toluene	25.0	25.7		ug/Kg		103	78 - 120	1	20
1,2,3-Trichlorobenzene	25.0	24.9		ug/Kg		100	70 - 130	1	20
1,2,4-Trichlorobenzene	25.0	26.2		ug/Kg		105	70 - 130	3	20
1,1,1-Trichloroethane	25.0	24.7		ug/Kg		99	70 - 130	2	20
1,1,2-Trichloroethane	25.0	26.0		ug/Kg		104	70 - 130	3	20
Trichloroethene	25.0	25.9		ug/Kg		104	70 - 130	1	20
Trichlorofluoromethane	25.0	23.2		ug/Kg		93	66 - 132	4	20
1,2,3-Trichloropropane	25.0	27.0		ug/Kg		108	70 - 130	0	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	25.0	23.6		ug/Kg		95	42 - 162	3	20
1,2,4-Trimethylbenzene	25.0	25.8		ug/Kg		103	70 - 132	0	20
1,3,5-Trimethylbenzene	25.0	26.0		ug/Kg		104	70 - 130	0	20
Vinyl acetate	25.0	26.5		ug/Kg		106	43 - 163	8	20
Vinyl chloride	25.0	22.4		ug/Kg		89	54 - 135	3	20
m-Xylene & p-Xylene	25.0	26.1		ug/Kg		105	70 - 142	1	20
o-Xylene	25.0	25.8		ug/Kg		103	70 - 130	0	20
2,2-Dichloropropane	25.0	24.2		ug/Kg		97	70 - 140	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-181490/6
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	104		67 - 130
1,2-Dichloroethane-d4 (Surr)	100		72 - 130
Toluene-d8 (Surr)	104		70 - 130

Lab Sample ID: LCSD 720-181490/8
Matrix: Water
Analysis Batch: 181490

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			500	506		ug/L		101	62 - 120	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	106		67 - 130
1,2-Dichloroethane-d4 (Surr)	102		72 - 130
Toluene-d8 (Surr)	101		70 - 130

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS

Lab Sample ID: MB 720-181271/5
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			05/08/15 11:40	1
Acetone	ND		50		ug/Kg			05/08/15 11:40	1
Benzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Dichlorobromomethane	ND		5.0		ug/Kg			05/08/15 11:40	1
Bromobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Chlorobromomethane	ND		20		ug/Kg			05/08/15 11:40	1
Bromoform	ND		5.0		ug/Kg			05/08/15 11:40	1
Bromomethane	ND		10		ug/Kg			05/08/15 11:40	1
2-Butanone (MEK)	ND		50		ug/Kg			05/08/15 11:40	1
n-Butylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Carbon disulfide	ND		5.0		ug/Kg			05/08/15 11:40	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/08/15 11:40	1
Chlorobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Chloroethane	ND		10		ug/Kg			05/08/15 11:40	1
Chloroform	ND		5.0		ug/Kg			05/08/15 11:40	1
Chloromethane	ND		10		ug/Kg			05/08/15 11:40	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/08/15 11:40	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/08/15 11:40	1
Chlorodibromomethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181271/5
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1-Dichloropropene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			05/08/15 11:40	1
Ethylene Dibromide	ND		5.0		ug/Kg			05/08/15 11:40	1
Dibromomethane	ND		10		ug/Kg			05/08/15 11:40	1
Dichlorodifluoromethane	ND		10		ug/Kg			05/08/15 11:40	1
1,1-Dichloroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2-Dichloroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/08/15 11:40	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			05/08/15 11:40	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2-Dichloropropane	ND		5.0		ug/Kg			05/08/15 11:40	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			05/08/15 11:40	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			05/08/15 11:40	1
Ethylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/08/15 11:40	1
2-Hexanone	ND		50		ug/Kg			05/08/15 11:40	1
Isopropylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
4-Isopropyltoluene	ND		5.0		ug/Kg			05/08/15 11:40	1
Methylene Chloride	ND		10		ug/Kg			05/08/15 11:40	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/08/15 11:40	1
Naphthalene	ND		10		ug/Kg			05/08/15 11:40	1
N-Propylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Styrene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
Tetrachloroethene	ND		5.0		ug/Kg			05/08/15 11:40	1
Toluene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
Trichloroethene	ND		5.0		ug/Kg			05/08/15 11:40	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			05/08/15 11:40	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			05/08/15 11:40	1
Vinyl acetate	ND		20		ug/Kg			05/08/15 11:40	1
Vinyl chloride	ND		5.0		ug/Kg			05/08/15 11:40	1
Xylenes, Total	ND		10		ug/Kg			05/08/15 11:40	1
2,2-Dichloropropane	ND		5.0		ug/Kg			05/08/15 11:40	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/08/15 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*05/08/15 11:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*		*05/08/15 11:40*	*1*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181271/5
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		58 - 140		05/08/15 11:40	1

Lab Sample ID: LCS 720-181271/6
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	50.6		ug/Kg		101	70 - 144
Acetone	250	226		ug/Kg		90	30 - 162
Benzene	50.0	46.6		ug/Kg		93	70 - 130
Dichlorobromomethane	50.0	49.0		ug/Kg		98	70 - 140
Bromobenzene	50.0	51.5		ug/Kg		103	70 - 130
Chlorobromomethane	50.0	52.0		ug/Kg		104	70 - 130
Bromoform	50.0	49.9		ug/Kg		100	59 - 158
Bromomethane	50.0	52.0		ug/Kg		104	59 - 132
2-Butanone (MEK)	250	262		ug/Kg		105	53 - 133
n-Butylbenzene	50.0	49.3		ug/Kg		99	70 - 142
sec-Butylbenzene	50.0	49.2		ug/Kg		98	70 - 136
tert-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 130
Carbon disulfide	50.0	47.5		ug/Kg		95	60 - 140
Carbon tetrachloride	50.0	51.8		ug/Kg		104	70 - 142
Chlorobenzene	50.0	47.5		ug/Kg		95	70 - 130
Chloroethane	50.0	50.1		ug/Kg		100	65 - 130
Chloroform	50.0	49.3		ug/Kg		99	77 - 127
Chloromethane	50.0	51.8		ug/Kg		104	55 - 140
2-Chlorotoluene	50.0	48.5		ug/Kg		97	70 - 138
4-Chlorotoluene	50.0	48.7		ug/Kg		97	70 - 136
Chlorodibromomethane	50.0	51.8		ug/Kg		104	70 - 146
1,2-Dichlorobenzene	50.0	51.7		ug/Kg		103	70 - 130
1,3-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 131
1,4-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 130
1,3-Dichloropropane	50.0	49.4		ug/Kg		99	70 - 140
1,1-Dichloropropene	50.0	52.5		ug/Kg		105	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	55.6		ug/Kg		111	60 - 145
Ethylene Dibromide	50.0	53.1		ug/Kg		106	70 - 140
Dibromomethane	50.0	52.6		ug/Kg		105	70 - 139
Dichlorodifluoromethane	50.0	65.4		ug/Kg		131	37 - 158
1,1-Dichloroethane	50.0	48.4		ug/Kg		97	70 - 130
1,2-Dichloroethane	50.0	49.2		ug/Kg		98	70 - 130
1,1-Dichloroethene	50.0	45.9		ug/Kg		92	74 - 122
cis-1,2-Dichloroethene	50.0	48.0		ug/Kg		96	70 - 138
trans-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	67 - 130
1,2-Dichloropropane	50.0	46.9		ug/Kg		94	73 - 127
cis-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	68 - 147
trans-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 155
Ethylbenzene	50.0	46.7		ug/Kg		93	80 - 137
Hexachlorobutadiene	50.0	52.5		ug/Kg		105	70 - 132
2-Hexanone	250	248		ug/Kg		99	44 - 133

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181271/6
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	50.0	48.2		ug/Kg		96	70 - 130
4-Isopropyltoluene	50.0	48.3		ug/Kg		97	70 - 133
Methylene Chloride	50.0	47.5		ug/Kg		95	70 - 134
4-Methyl-2-pentanone (MIBK)	250	247		ug/Kg		99	60 - 160
Naphthalene	50.0	54.2		ug/Kg		108	60 - 147
N-Propylbenzene	50.0	48.7		ug/Kg		97	70 - 130
Styrene	50.0	45.8		ug/Kg		92	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.7		ug/Kg		101	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	52.3		ug/Kg		105	70 - 132
Toluene	50.0	48.3		ug/Kg		97	80 - 128
1,2,3-Trichlorobenzene	50.0	52.9		ug/Kg		106	60 - 140
1,2,4-Trichlorobenzene	50.0	52.9		ug/Kg		106	60 - 140
1,1,1-Trichloroethane	50.0	48.7		ug/Kg		97	70 - 130
1,1,2-Trichloroethane	50.0	50.2		ug/Kg		100	70 - 130
Trichloroethene	50.0	50.1		ug/Kg		100	70 - 133
Trichlorofluoromethane	50.0	50.6		ug/Kg		101	60 - 140
1,2,3-Trichloropropane	50.0	55.3		ug/Kg		111	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5		ug/Kg		97	60 - 140
1,2,4-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 130
1,3,5-Trimethylbenzene	50.0	49.6		ug/Kg		99	70 - 131
Vinyl acetate	50.0	116	*	ug/Kg		231	38 - 176
Vinyl chloride	50.0	50.9		ug/Kg		102	58 - 125
m-Xylene & p-Xylene	50.0	46.9		ug/Kg		94	70 - 146
o-Xylene	50.0	46.9		ug/Kg		94	70 - 140
2,2-Dichloropropane	50.0	54.0		ug/Kg		108	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*92*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCS 720-181271/8
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	877		ug/Kg		88	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181271/7
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	52.6		ug/Kg		105	70 - 144	4	20
Acetone	250	246		ug/Kg		99	30 - 162	9	30
Benzene	50.0	47.9		ug/Kg		96	70 - 130	3	20
Dichlorobromomethane	50.0	49.5		ug/Kg		99	70 - 140	1	20
Bromobenzene	50.0	50.2		ug/Kg		100	70 - 130	3	20
Chlorobromomethane	50.0	54.2		ug/Kg		108	70 - 130	4	20
Bromoform	50.0	50.8		ug/Kg		102	59 - 158	2	20
Bromomethane	50.0	52.6		ug/Kg		105	59 - 132	1	20
2-Butanone (MEK)	250	267		ug/Kg		107	53 - 133	2	20
n-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 142	4	20
sec-Butylbenzene	50.0	46.9		ug/Kg		94	70 - 136	5	20
tert-Butylbenzene	50.0	47.5		ug/Kg		95	70 - 130	2	20
Carbon disulfide	50.0	48.6		ug/Kg		97	60 - 140	2	20
Carbon tetrachloride	50.0	53.3		ug/Kg		107	70 - 142	3	20
Chlorobenzene	50.0	48.7		ug/Kg		97	70 - 130	2	20
Chloroethane	50.0	52.3		ug/Kg		105	65 - 130	4	20
Chloroform	50.0	50.3		ug/Kg		101	77 - 127	2	20
Chloromethane	50.0	55.3		ug/Kg		111	55 - 140	6	20
2-Chlorotoluene	50.0	46.9		ug/Kg		94	70 - 138	3	20
4-Chlorotoluene	50.0	47.8		ug/Kg		96	70 - 136	2	20
Chlorodibromomethane	50.0	53.3		ug/Kg		107	70 - 146	3	20
1,2-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 130	5	20
1,3-Dichlorobenzene	50.0	48.9		ug/Kg		98	70 - 131	3	20
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	70 - 130	5	20
1,3-Dichloropropane	50.0	51.0		ug/Kg		102	70 - 140	3	20
1,1-Dichloropropene	50.0	54.1		ug/Kg		108	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/Kg		108	60 - 145	3	20
Ethylene Dibromide	50.0	54.4		ug/Kg		109	70 - 140	2	20
Dibromomethane	50.0	51.4		ug/Kg		103	70 - 139	2	20
Dichlorodifluoromethane	50.0	68.0		ug/Kg		136	37 - 158	4	20
1,1-Dichloroethane	50.0	50.6		ug/Kg		101	70 - 130	4	20
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 130	5	20
1,1-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 122	2	20
cis-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	70 - 138	5	20
trans-1,2-Dichloroethene	50.0	51.0		ug/Kg		102	67 - 130	2	20
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	73 - 127	4	20
cis-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	68 - 147	4	20
trans-1,3-Dichloropropene	50.0	56.6		ug/Kg		113	70 - 155	3	20
Ethylbenzene	50.0	47.0		ug/Kg		94	80 - 137	1	20
Hexachlorobutadiene	50.0	50.7		ug/Kg		101	70 - 132	3	20
2-Hexanone	250	259		ug/Kg		104	44 - 133	4	20
Isopropylbenzene	50.0	47.9		ug/Kg		96	70 - 130	1	20
4-Isopropyltoluene	50.0	46.6		ug/Kg		93	70 - 133	4	20
Methylene Chloride	50.0	49.5		ug/Kg		99	70 - 134	4	20
4-Methyl-2-pentanone (MIBK)	250	260		ug/Kg		104	60 - 160	5	20
Naphthalene	50.0	53.2		ug/Kg		106	60 - 147	2	20
N-Propylbenzene	50.0	47.2		ug/Kg		94	70 - 130	3	20
Styrene	50.0	46.5		ug/Kg		93	70 - 130	2	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181271/7
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	52.1		ug/Kg		104	70 - 130	3	20
1,1,2,2-Tetrachloroethane			50.0	50.0		ug/Kg		100	70 - 146	2	20
Tetrachloroethene			50.0	54.9		ug/Kg		110	70 - 132	5	20
Toluene			50.0	48.3		ug/Kg		97	80 - 128	0	20
1,2,3-Trichlorobenzene			50.0	51.2		ug/Kg		102	60 - 140	3	20
1,2,4-Trichlorobenzene			50.0	50.2		ug/Kg		100	60 - 140	5	20
1,1,1-Trichloroethane			50.0	50.3		ug/Kg		101	70 - 130	3	20
1,1,2-Trichloroethane			50.0	50.8		ug/Kg		102	70 - 130	1	20
Trichloroethene			50.0	52.0		ug/Kg		104	70 - 133	4	20
Trichlorofluoromethane			50.0	51.7		ug/Kg		103	60 - 140	2	20
1,2,3-Trichloropropane			50.0	53.8		ug/Kg		108	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	49.4		ug/Kg		99	60 - 140	2	20
1,2,4-Trimethylbenzene			50.0	46.5		ug/Kg		93	70 - 130	5	20
1,3,5-Trimethylbenzene			50.0	47.8		ug/Kg		96	70 - 131	4	20
Vinyl acetate			50.0	122	*	ug/Kg		245	38 - 176	6	20
Vinyl chloride			50.0	53.7		ug/Kg		107	58 - 125	5	20
m-Xylene & p-Xylene			50.0	47.9		ug/Kg		96	70 - 146	2	20
o-Xylene			50.0	47.9		ug/Kg		96	70 - 140	2	20
2,2-Dichloropropane			50.0	50.7		ug/Kg		101	70 - 162	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*101*		*58 - 140*

Lab Sample ID: LCSD 720-181271/9
Matrix: Solid
Analysis Batch: 181271

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1040		ug/Kg		104	61 - 128	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*95*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: MB 720-181341/5
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			05/11/15 09:25	1
Acetone	ND		50		ug/Kg			05/11/15 09:25	1
Benzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Dichlorobromomethane	ND		5.0		ug/Kg			05/11/15 09:25	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181341/5
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Chlorobromomethane	ND		20		ug/Kg			05/11/15 09:25	1
Bromoform	ND		5.0		ug/Kg			05/11/15 09:25	1
Bromomethane	ND		10		ug/Kg			05/11/15 09:25	1
2-Butanone (MEK)	ND		50		ug/Kg			05/11/15 09:25	1
n-Butylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Carbon disulfide	ND		5.0		ug/Kg			05/11/15 09:25	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/11/15 09:25	1
Chlorobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Chloroethane	ND		10		ug/Kg			05/11/15 09:25	1
Chloroform	ND		5.0		ug/Kg			05/11/15 09:25	1
Chloromethane	ND		10		ug/Kg			05/11/15 09:25	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/11/15 09:25	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/11/15 09:25	1
Chlorodibromomethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,3-Dichloropropane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1-Dichloropropene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			05/11/15 09:25	1
Ethylene Dibromide	ND		5.0		ug/Kg			05/11/15 09:25	1
Dibromomethane	ND		10		ug/Kg			05/11/15 09:25	1
Dichlorodifluoromethane	ND		10		ug/Kg			05/11/15 09:25	1
1,1-Dichloroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2-Dichloroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/11/15 09:25	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			05/11/15 09:25	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2-Dichloropropane	ND		5.0		ug/Kg			05/11/15 09:25	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			05/11/15 09:25	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			05/11/15 09:25	1
Ethylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/11/15 09:25	1
2-Hexanone	ND		50		ug/Kg			05/11/15 09:25	1
Isopropylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
4-Isopropyltoluene	ND		5.0		ug/Kg			05/11/15 09:25	1
Methylene Chloride	ND		10		ug/Kg			05/11/15 09:25	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/11/15 09:25	1
Naphthalene	ND		10		ug/Kg			05/11/15 09:25	1
N-Propylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Styrene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
Tetrachloroethene	ND		5.0		ug/Kg			05/11/15 09:25	1
Toluene	ND		5.0		ug/Kg			05/11/15 09:25	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181341/5
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
Trichloroethene	ND		5.0		ug/Kg			05/11/15 09:25	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			05/11/15 09:25	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			05/11/15 09:25	1
Vinyl acetate	ND		20		ug/Kg			05/11/15 09:25	1
Vinyl chloride	ND		5.0		ug/Kg			05/11/15 09:25	1
Xylenes, Total	ND		10		ug/Kg			05/11/15 09:25	1
2,2-Dichloropropane	ND		5.0		ug/Kg			05/11/15 09:25	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/11/15 09:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*		*05/11/15 09:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*60 - 140*		*05/11/15 09:25*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*		*05/11/15 09:25*	*1*

Lab Sample ID: LCS 720-181341/6
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	50.6		ug/Kg		101	70 - 144
Acetone	250	210		ug/Kg		84	30 - 162
Benzene	50.0	49.6		ug/Kg		99	70 - 130
Dichlorobromomethane	50.0	52.3		ug/Kg		105	70 - 140
Bromobenzene	50.0	52.2		ug/Kg		104	70 - 130
Chlorobromomethane	50.0	52.8		ug/Kg		106	70 - 130
Bromoform	50.0	50.7		ug/Kg		101	59 - 158
Bromomethane	50.0	53.0		ug/Kg		106	59 - 132
2-Butanone (MEK)	250	230		ug/Kg		92	53 - 133
n-Butylbenzene	50.0	55.2		ug/Kg		110	70 - 142
sec-Butylbenzene	50.0	53.5		ug/Kg		107	70 - 136
tert-Butylbenzene	50.0	52.6		ug/Kg		105	70 - 130
Carbon disulfide	50.0	48.7		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	52.4		ug/Kg		105	70 - 142
Chlorobenzene	50.0	50.3		ug/Kg		101	70 - 130
Chloroethane	50.0	51.4		ug/Kg		103	65 - 130
Chloroform	50.0	48.6		ug/Kg		97	77 - 127
Chloromethane	50.0	44.9		ug/Kg		90	55 - 140
2-Chlorotoluene	50.0	51.0		ug/Kg		102	70 - 138
4-Chlorotoluene	50.0	52.7		ug/Kg		105	70 - 136
Chlorodibromomethane	50.0	54.7		ug/Kg		109	70 - 146

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181341/6
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	50.0	53.1		ug/Kg		106	70 - 130
1,3-Dichlorobenzene	50.0	53.5		ug/Kg		107	70 - 131
1,4-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3-Dichloropropane	50.0	49.7		ug/Kg		99	70 - 140
1,1-Dichloropropene	50.0	55.6		ug/Kg		111	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/Kg		94	60 - 145
Ethylene Dibromide	50.0	53.0		ug/Kg		106	70 - 140
Dibromomethane	50.0	51.1		ug/Kg		102	70 - 139
Dichlorodifluoromethane	50.0	59.2		ug/Kg		118	37 - 158
1,1-Dichloroethane	50.0	44.5		ug/Kg		89	70 - 130
1,2-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 130
1,1-Dichloroethene	50.0	47.3		ug/Kg		95	74 - 122
cis-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	70 - 138
trans-1,2-Dichloroethene	50.0	50.2		ug/Kg		100	67 - 130
1,2-Dichloropropane	50.0	48.1		ug/Kg		96	73 - 127
cis-1,3-Dichloropropene	50.0	56.1		ug/Kg		112	68 - 147
trans-1,3-Dichloropropene	50.0	60.9		ug/Kg		122	70 - 155
Ethylbenzene	50.0	50.8		ug/Kg		102	80 - 137
Hexachlorobutadiene	50.0	56.3		ug/Kg		113	70 - 132
2-Hexanone	250	212		ug/Kg		85	44 - 133
Isopropylbenzene	50.0	53.2		ug/Kg		106	70 - 130
4-Isopropyltoluene	50.0	53.8		ug/Kg		108	70 - 133
Methylene Chloride	50.0	50.5		ug/Kg		101	70 - 134
4-Methyl-2-pentanone (MIBK)	250	217		ug/Kg		87	60 - 160
Naphthalene	50.0	52.0		ug/Kg		104	60 - 147
N-Propylbenzene	50.0	53.2		ug/Kg		106	70 - 130
Styrene	50.0	53.0		ug/Kg		106	70 - 130
1,1,1,2-Tetrachloroethane	50.0	54.2		ug/Kg		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 146
Tetrachloroethene	50.0	55.8		ug/Kg		112	70 - 132
Toluene	50.0	49.2		ug/Kg		98	80 - 128
1,2,3-Trichlorobenzene	50.0	54.2		ug/Kg		108	60 - 140
1,2,4-Trichlorobenzene	50.0	59.2		ug/Kg		118	60 - 140
1,1,1-Trichloroethane	50.0	47.8		ug/Kg		96	70 - 130
1,1,2-Trichloroethane	50.0	49.9		ug/Kg		100	70 - 130
Trichloroethene	50.0	52.2		ug/Kg		104	70 - 133
Trichlorofluoromethane	50.0	50.8		ug/Kg		102	60 - 140
1,2,3-Trichloropropane	50.0	49.4		ug/Kg		99	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	41.0		ug/Kg		82	60 - 140
1,2,4-Trimethylbenzene	50.0	53.9		ug/Kg		108	70 - 130
1,3,5-Trimethylbenzene	50.0	54.1		ug/Kg		108	70 - 131
Vinyl acetate	50.0	103	*	ug/Kg		206	38 - 176
Vinyl chloride	50.0	52.5		ug/Kg		105	58 - 125
m-Xylene & p-Xylene	50.0	51.7		ug/Kg		103	70 - 146
o-Xylene	50.0	51.4		ug/Kg		103	70 - 140
2,2-Dichloropropane	50.0	55.2		ug/Kg		110	70 - 162

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181341/6
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCS 720-181341/8
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1030		ug/Kg		103	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-181341/7
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	70 - 144	1	20
Acetone	250	201		ug/Kg		80	30 - 162	4	30
Benzene	50.0	47.0		ug/Kg		94	70 - 130	5	20
Dichlorobromomethane	50.0	49.4		ug/Kg		99	70 - 140	6	20
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 130	3	20
Chlorobromomethane	50.0	51.1		ug/Kg		102	70 - 130	3	20
Bromoform	50.0	50.3		ug/Kg		101	59 - 158	1	20
Bromomethane	50.0	50.0		ug/Kg		100	59 - 132	6	20
2-Butanone (MEK)	250	244		ug/Kg		98	53 - 133	6	20
n-Butylbenzene	50.0	49.8		ug/Kg		100	70 - 142	10	20
sec-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 136	8	20
tert-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 130	6	20
Carbon disulfide	50.0	46.5		ug/Kg		93	60 - 140	5	20
Carbon tetrachloride	50.0	48.6		ug/Kg		97	70 - 142	7	20
Chlorobenzene	50.0	47.8		ug/Kg		96	70 - 130	5	20
Chloroethane	50.0	47.6		ug/Kg		95	65 - 130	8	20
Chloroform	50.0	45.6		ug/Kg		91	77 - 127	6	20
Chloromethane	50.0	42.3		ug/Kg		85	55 - 140	6	20
2-Chlorotoluene	50.0	46.5		ug/Kg		93	70 - 138	9	20
4-Chlorotoluene	50.0	47.6		ug/Kg		95	70 - 136	10	20
Chlorodibromomethane	50.0	54.0		ug/Kg		108	70 - 146	1	20
1,2-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 130	5	20
1,3-Dichlorobenzene	50.0	49.8		ug/Kg		100	70 - 131	7	20
1,4-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 130	7	20
1,3-Dichloropropane	50.0	47.6		ug/Kg		95	70 - 140	4	20
1,1-Dichloropropene	50.0	51.9		ug/Kg		104	70 - 130	7	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181341/7
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	50.0	48.6		ug/Kg		97	60 - 145	3	20
Ethylene Dibromide	50.0	52.8		ug/Kg		106	70 - 140	0	20
Dibromomethane	50.0	49.8		ug/Kg		100	70 - 139	3	20
Dichlorodifluoromethane	50.0	53.5		ug/Kg		107	37 - 158	10	20
1,1-Dichloroethane	50.0	42.1		ug/Kg		84	70 - 130	5	20
1,2-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 130	4	20
1,1-Dichloroethene	50.0	47.0		ug/Kg		94	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	40.7		ug/Kg		81	70 - 138	8	20
trans-1,2-Dichloroethene	50.0	48.2		ug/Kg		96	67 - 130	4	20
1,2-Dichloropropane	50.0	45.0		ug/Kg		90	73 - 127	7	20
cis-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	68 - 147	6	20
trans-1,3-Dichloropropene	50.0	58.3		ug/Kg		117	70 - 155	4	20
Ethylbenzene	50.0	47.3		ug/Kg		95	80 - 137	7	20
Hexachlorobutadiene	50.0	52.0		ug/Kg		104	70 - 132	8	20
2-Hexanone	250	215		ug/Kg		86	44 - 133	1	20
Isopropylbenzene	50.0	49.6		ug/Kg		99	70 - 130	7	20
4-Isopropyltoluene	50.0	49.6		ug/Kg		99	70 - 133	8	20
Methylene Chloride	50.0	48.6		ug/Kg		97	70 - 134	4	20
4-Methyl-2-pentanone (MIBK)	250	218		ug/Kg		87	60 - 160	1	20
Naphthalene	50.0	51.1		ug/Kg		102	60 - 147	2	20
N-Propylbenzene	50.0	48.6		ug/Kg		97	70 - 130	9	20
Styrene	50.0	50.2		ug/Kg		100	70 - 130	5	20
1,1,1,2-Tetrachloroethane	50.0	51.6		ug/Kg		103	70 - 130	5	20
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/Kg		99	70 - 146	0	20
Tetrachloroethene	50.0	52.2		ug/Kg		104	70 - 132	7	20
Toluene	50.0	46.4		ug/Kg		93	80 - 128	6	20
1,2,3-Trichlorobenzene	50.0	51.5		ug/Kg		103	60 - 140	5	20
1,2,4-Trichlorobenzene	50.0	54.6		ug/Kg		109	60 - 140	8	20
1,1,1-Trichloroethane	50.0	42.2		ug/Kg		84	70 - 130	12	20
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	70 - 130	0	20
Trichloroethene	50.0	50.1		ug/Kg		100	70 - 133	4	20
Trichlorofluoromethane	50.0	46.4		ug/Kg		93	60 - 140	9	20
1,2,3-Trichloropropane	50.0	49.8		ug/Kg		100	70 - 146	1	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	43.0		ug/Kg		86	60 - 140	5	20
1,2,4-Trimethylbenzene	50.0	49.3		ug/Kg		99	70 - 130	9	20
1,3,5-Trimethylbenzene	50.0	50.0		ug/Kg		100	70 - 131	8	20
Vinyl acetate	50.0	101	*	ug/Kg		201	38 - 176	2	20
Vinyl chloride	50.0	46.8		ug/Kg		94	58 - 125	12	20
m-Xylene & p-Xylene	50.0	47.9		ug/Kg		96	70 - 146	8	20
o-Xylene	50.0	47.7		ug/Kg		95	70 - 140	8	20
2,2-Dichloropropane	50.0	46.5		ug/Kg		93	70 - 162	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*83*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181341/9
Matrix: Solid
Analysis Batch: 181341

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1010		ug/Kg		101	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*85*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: MB 720-181390/5
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			05/11/15 19:43	1
Acetone	ND		50		ug/Kg			05/11/15 19:43	1
Benzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Dichlorobromomethane	ND		5.0		ug/Kg			05/11/15 19:43	1
Bromobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Chlorobromomethane	ND		20		ug/Kg			05/11/15 19:43	1
Bromoform	ND		5.0		ug/Kg			05/11/15 19:43	1
Bromomethane	ND		10		ug/Kg			05/11/15 19:43	1
2-Butanone (MEK)	ND		50		ug/Kg			05/11/15 19:43	1
n-Butylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Carbon disulfide	ND		5.0		ug/Kg			05/11/15 19:43	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/11/15 19:43	1
Chlorobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Chloroethane	ND		10		ug/Kg			05/11/15 19:43	1
Chloroform	ND		5.0		ug/Kg			05/11/15 19:43	1
Chloromethane	ND		10		ug/Kg			05/11/15 19:43	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/11/15 19:43	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/11/15 19:43	1
Chlorodibromomethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,3-Dichloropropane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1-Dichloropropene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			05/11/15 19:43	1
Ethylene Dibromide	ND		5.0		ug/Kg			05/11/15 19:43	1
Dibromomethane	ND		10		ug/Kg			05/11/15 19:43	1
Dichlorodifluoromethane	ND		10		ug/Kg			05/11/15 19:43	1
1,1-Dichloroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2-Dichloroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/11/15 19:43	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			05/11/15 19:43	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			05/11/15 19:43	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181390/5
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0		ug/Kg			05/11/15 19:43	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			05/11/15 19:43	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			05/11/15 19:43	1
Ethylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/11/15 19:43	1
2-Hexanone	ND		50		ug/Kg			05/11/15 19:43	1
Isopropylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
4-Isopropyltoluene	ND		5.0		ug/Kg			05/11/15 19:43	1
Methylene Chloride	ND		10		ug/Kg			05/11/15 19:43	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/11/15 19:43	1
Naphthalene	ND		10		ug/Kg			05/11/15 19:43	1
N-Propylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Styrene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
Tetrachloroethene	ND		5.0		ug/Kg			05/11/15 19:43	1
Toluene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
Trichloroethene	ND		5.0		ug/Kg			05/11/15 19:43	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			05/11/15 19:43	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			05/11/15 19:43	1
Vinyl acetate	ND		20		ug/Kg			05/11/15 19:43	1
Vinyl chloride	ND		5.0		ug/Kg			05/11/15 19:43	1
Xylenes, Total	ND		10		ug/Kg			05/11/15 19:43	1
2,2-Dichloropropane	ND		5.0		ug/Kg			05/11/15 19:43	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/11/15 19:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*89*		*45 - 131*		*05/11/15 19:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*60 - 140*		*05/11/15 19:43*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*		*05/11/15 19:43*	*1*

Lab Sample ID: LCS 720-181390/6
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	44.6		ug/Kg		89	70 - 144
Acetone	250	161		ug/Kg		64	30 - 162
Benzene	50.0	46.4		ug/Kg		93	70 - 130
Dichlorobromomethane	50.0	46.3		ug/Kg		93	70 - 140

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181390/6
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	48.9		ug/Kg		98	70 - 130
Chlorobromomethane	50.0	47.4		ug/Kg		95	70 - 130
Bromoform	50.0	44.5		ug/Kg		89	59 - 158
Bromomethane	50.0	48.7		ug/Kg		97	59 - 132
2-Butanone (MEK)	250	185		ug/Kg		74	53 - 133
n-Butylbenzene	50.0	50.4		ug/Kg		101	70 - 142
sec-Butylbenzene	50.0	50.5		ug/Kg		101	70 - 136
tert-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 130
Carbon disulfide	50.0	48.6		ug/Kg		97	60 - 140
Carbon tetrachloride	50.0	49.6		ug/Kg		99	70 - 142
Chlorobenzene	50.0	46.9		ug/Kg		94	70 - 130
Chloroethane	50.0	47.6		ug/Kg		95	65 - 130
Chloroform	50.0	44.1		ug/Kg		88	77 - 127
Chloromethane	50.0	39.7		ug/Kg		79	55 - 140
2-Chlorotoluene	50.0	47.1		ug/Kg		94	70 - 138
4-Chlorotoluene	50.0	47.6		ug/Kg		95	70 - 136
Chlorodibromomethane	50.0	48.0		ug/Kg		96	70 - 146
1,2-Dichlorobenzene	50.0	48.1		ug/Kg		96	70 - 130
1,3-Dichlorobenzene	50.0	49.1		ug/Kg		98	70 - 131
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	70 - 130
1,3-Dichloropropane	50.0	42.9		ug/Kg		86	70 - 140
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	41.5		ug/Kg		83	60 - 145
Ethylene Dibromide	50.0	46.1		ug/Kg		92	70 - 140
Dibromomethane	50.0	44.3		ug/Kg		89	70 - 139
Dichlorodifluoromethane	50.0	52.4		ug/Kg		105	37 - 158
1,1-Dichloroethane	50.0	41.4		ug/Kg		83	70 - 130
1,2-Dichloroethane	50.0	41.5		ug/Kg		83	70 - 130
1,1-Dichloroethene	50.0	43.4		ug/Kg		87	74 - 122
cis-1,2-Dichloroethene	50.0	39.3		ug/Kg		79	70 - 138
trans-1,2-Dichloroethene	50.0	48.8		ug/Kg		98	67 - 130
1,2-Dichloropropane	50.0	43.7		ug/Kg		87	73 - 127
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 147
trans-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	70 - 155
Ethylbenzene	50.0	47.3		ug/Kg		95	80 - 137
Hexachlorobutadiene	50.0	52.8		ug/Kg		106	70 - 132
2-Hexanone	250	159		ug/Kg		64	44 - 133
Isopropylbenzene	50.0	50.3		ug/Kg		101	70 - 130
4-Isopropyltoluene	50.0	50.2		ug/Kg		100	70 - 133
Methylene Chloride	50.0	42.9		ug/Kg		86	70 - 134
4-Methyl-2-pentanone (MIBK)	250	166		ug/Kg		66	60 - 160
Naphthalene	50.0	45.5		ug/Kg		91	60 - 147
N-Propylbenzene	50.0	49.5		ug/Kg		99	70 - 130
Styrene	50.0	48.8		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/Kg		100	70 - 130
1,1,2,2-Tetrachloroethane	50.0	42.8		ug/Kg		86	70 - 146
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 132
Toluene	50.0	46.5		ug/Kg		93	80 - 128

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181390/6
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	50.0	47.9		ug/Kg		96	60 - 140
1,2,4-Trichlorobenzene	50.0	51.7		ug/Kg		103	60 - 140
1,1,1-Trichloroethane	50.0	44.3		ug/Kg		89	70 - 130
1,1,2-Trichloroethane	50.0	43.5		ug/Kg		87	70 - 130
Trichloroethene	50.0	50.2		ug/Kg		100	70 - 133
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	60 - 140
1,2,3-Trichloropropane	50.0	43.3		ug/Kg		87	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	39.8		ug/Kg		80	60 - 140
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	50.5		ug/Kg		101	70 - 131
Vinyl acetate	50.0	82.6		ug/Kg		165	38 - 176
Vinyl chloride	50.0	46.5		ug/Kg		93	58 - 125
m-Xylene & p-Xylene	50.0	48.0		ug/Kg		96	70 - 146
o-Xylene	50.0	47.0		ug/Kg		94	70 - 140
2,2-Dichloropropane	50.0	50.4		ug/Kg		101	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*90*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*80*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCS 720-181390/8
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1010		ug/Kg		101	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*93*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: LCSD 720-181390/7
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	43.9		ug/Kg		88	70 - 144	2	20
Acetone	250	153		ug/Kg		61	30 - 162	5	30
Benzene	50.0	46.9		ug/Kg		94	70 - 130	1	20
Dichlorobromomethane	50.0	45.7		ug/Kg		91	70 - 140	1	20
Bromobenzene	50.0	49.1		ug/Kg		98	70 - 130	0	20
Chlorobromomethane	50.0	46.7		ug/Kg		93	70 - 130	1	20
Bromoform	50.0	42.7		ug/Kg		85	59 - 158	4	20
Bromomethane	50.0	47.6		ug/Kg		95	59 - 132	2	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181390/7
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	250	181		ug/Kg		72	53 - 133	2	20
n-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 142	1	20
sec-Butylbenzene	50.0	51.5		ug/Kg		103	70 - 136	2	20
tert-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 130	1	20
Carbon disulfide	50.0	46.8		ug/Kg		94	60 - 140	4	20
Carbon tetrachloride	50.0	47.1		ug/Kg		94	70 - 142	5	20
Chlorobenzene	50.0	47.0		ug/Kg		94	70 - 130	0	20
Chloroethane	50.0	47.3		ug/Kg		95	65 - 130	1	20
Chloroform	50.0	43.8		ug/Kg		88	77 - 127	1	20
Chloromethane	50.0	39.3		ug/Kg		79	55 - 140	1	20
2-Chlorotoluene	50.0	48.2		ug/Kg		96	70 - 138	2	20
4-Chlorotoluene	50.0	48.5		ug/Kg		97	70 - 136	2	20
Chlorodibromomethane	50.0	47.3		ug/Kg		95	70 - 146	2	20
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 130	1	20
1,3-Dichlorobenzene	50.0	49.0		ug/Kg		98	70 - 131	0	20
1,4-Dichlorobenzene	50.0	48.2		ug/Kg		96	70 - 130	0	20
1,3-Dichloropropane	50.0	42.7		ug/Kg		85	70 - 140	0	20
1,1-Dichloropropene	50.0	52.2		ug/Kg		104	70 - 130	0	20
1,2-Dibromo-3-Chloropropane	50.0	40.1		ug/Kg		80	60 - 145	3	20
Ethylene Dibromide	50.0	45.5		ug/Kg		91	70 - 140	1	20
Dibromomethane	50.0	43.6		ug/Kg		87	70 - 139	2	20
Dichlorodifluoromethane	50.0	49.5		ug/Kg		99	37 - 158	6	20
1,1-Dichloroethane	50.0	41.7		ug/Kg		83	70 - 130	1	20
1,2-Dichloroethane	50.0	42.0		ug/Kg		84	70 - 130	1	20
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	74 - 122	3	20
cis-1,2-Dichloroethene	50.0	40.2		ug/Kg		80	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	67 - 130	2	20
1,2-Dichloropropane	50.0	44.0		ug/Kg		88	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	49.8		ug/Kg		100	68 - 147	1	20
trans-1,3-Dichloropropene	50.0	52.0		ug/Kg		104	70 - 155	1	20
Ethylbenzene	50.0	47.6		ug/Kg		95	80 - 137	1	20
Hexachlorobutadiene	50.0	51.5		ug/Kg		103	70 - 132	3	20
2-Hexanone	250	157		ug/Kg		63	44 - 133	1	20
Isopropylbenzene	50.0	50.3		ug/Kg		101	70 - 130	0	20
4-Isopropyltoluene	50.0	50.8		ug/Kg		102	70 - 133	1	20
Methylene Chloride	50.0	45.2		ug/Kg		90	70 - 134	5	20
4-Methyl-2-pentanone (MIBK)	250	164		ug/Kg		66	60 - 160	1	20
Naphthalene	50.0	45.6		ug/Kg		91	60 - 147	0	20
N-Propylbenzene	50.0	50.8		ug/Kg		102	70 - 130	3	20
Styrene	50.0	49.0		ug/Kg		98	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	49.6		ug/Kg		99	70 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	44.2		ug/Kg		88	70 - 146	3	20
Tetrachloroethene	50.0	51.4		ug/Kg		103	70 - 132	4	20
Toluene	50.0	46.9		ug/Kg		94	80 - 128	1	20
1,2,3-Trichlorobenzene	50.0	47.8		ug/Kg		96	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	50.8		ug/Kg		102	60 - 140	2	20
1,1,1-Trichloroethane	50.0	43.7		ug/Kg		87	70 - 130	1	20
1,1,2-Trichloroethane	50.0	43.8		ug/Kg		88	70 - 130	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181390/7
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	50.0	48.7		ug/Kg		97	70 - 133	3	20
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	60 - 140	4	20
1,2,3-Trichloropropane	50.0	43.4		ug/Kg		87	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	40.5		ug/Kg		81	60 - 140	2	20
1,2,4-Trimethylbenzene	50.0	50.4		ug/Kg		101	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	51.6		ug/Kg		103	70 - 131	2	20
Vinyl acetate	50.0	83.5		ug/Kg		167	38 - 176	1	20
Vinyl chloride	50.0	46.8		ug/Kg		94	58 - 125	1	20
m-Xylene & p-Xylene	50.0	48.4		ug/Kg		97	70 - 146	1	20
o-Xylene	50.0	47.3		ug/Kg		95	70 - 140	1	20
2,2-Dichloropropane	50.0	50.3		ug/Kg		101	70 - 162	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*89*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*79*		*60 - 140*
Toluene-d8 (Surr)	*96*		*58 - 140*

Lab Sample ID: LCSD 720-181390/9
Matrix: Solid
Analysis Batch: 181390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1000		ug/Kg		100	61 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*81*		*60 - 140*
Toluene-d8 (Surr)	*95*		*58 - 140*

Lab Sample ID: MB 720-181428/4
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			05/12/15 09:23	1
Acetone	ND		50		ug/Kg			05/12/15 09:23	1
Benzene	ND		5.0		ug/Kg			05/12/15 09:23	1
Dichlorobromomethane	ND		5.0		ug/Kg			05/12/15 09:23	1
Bromobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
Chlorobromomethane	ND		20		ug/Kg			05/12/15 09:23	1
Bromoform	ND		5.0		ug/Kg			05/12/15 09:23	1
Bromomethane	ND		10		ug/Kg			05/12/15 09:23	1
2-Butanone (MEK)	ND		50		ug/Kg			05/12/15 09:23	1
n-Butylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
sec-Butylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
tert-Butylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181428/4
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0		ug/Kg			05/12/15 09:23	1
Carbon tetrachloride	ND		5.0		ug/Kg			05/12/15 09:23	1
Chlorobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
Chloroethane	ND		10		ug/Kg			05/12/15 09:23	1
Chloroform	ND		5.0		ug/Kg			05/12/15 09:23	1
Chloromethane	ND		10		ug/Kg			05/12/15 09:23	1
2-Chlorotoluene	ND		5.0		ug/Kg			05/12/15 09:23	1
4-Chlorotoluene	ND		5.0		ug/Kg			05/12/15 09:23	1
Chlorodibromomethane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,3-Dichloropropane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1-Dichloropropene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			05/12/15 09:23	1
Ethylene Dibromide	ND		5.0		ug/Kg			05/12/15 09:23	1
Dibromomethane	ND		10		ug/Kg			05/12/15 09:23	1
Dichlorodifluoromethane	ND		10		ug/Kg			05/12/15 09:23	1
1,1-Dichloroethane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2-Dichloroethane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1-Dichloroethene	ND		5.0		ug/Kg			05/12/15 09:23	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			05/12/15 09:23	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2-Dichloropropane	ND		5.0		ug/Kg			05/12/15 09:23	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			05/12/15 09:23	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			05/12/15 09:23	1
Ethylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
Hexachlorobutadiene	ND		5.0		ug/Kg			05/12/15 09:23	1
2-Hexanone	ND		50		ug/Kg			05/12/15 09:23	1
Isopropylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
4-Isopropyltoluene	ND		5.0		ug/Kg			05/12/15 09:23	1
Methylene Chloride	ND		10		ug/Kg			05/12/15 09:23	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			05/12/15 09:23	1
Naphthalene	ND		10		ug/Kg			05/12/15 09:23	1
N-Propylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
Styrene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			05/12/15 09:23	1
Tetrachloroethene	ND		5.0		ug/Kg			05/12/15 09:23	1
Toluene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			05/12/15 09:23	1
Trichloroethene	ND		5.0		ug/Kg			05/12/15 09:23	1
Trichlorofluoromethane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			05/12/15 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			05/12/15 09:23	1

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181428/4
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			05/12/15 09:23	1
Vinyl acetate	ND		20		ug/Kg			05/12/15 09:23	1
Vinyl chloride	ND		5.0		ug/Kg			05/12/15 09:23	1
Xylenes, Total	ND		10		ug/Kg			05/12/15 09:23	1
2,2-Dichloropropane	ND		5.0		ug/Kg			05/12/15 09:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			05/12/15 09:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*45 - 131*		*05/12/15 09:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*60 - 140*		*05/12/15 09:23*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*		*05/12/15 09:23*	*1*

Lab Sample ID: LCS 720-181428/5
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.6		ug/Kg		107	70 - 144
Acetone	250	274		ug/Kg		110	30 - 162
Benzene	50.0	51.1		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	52.8		ug/Kg		106	70 - 140
Bromobenzene	50.0	53.2		ug/Kg		106	70 - 130
Chlorobromomethane	50.0	55.8		ug/Kg		112	70 - 130
Bromoform	50.0	50.6		ug/Kg		101	59 - 158
Bromomethane	50.0	57.7		ug/Kg		115	59 - 132
2-Butanone (MEK)	250	278		ug/Kg		111	53 - 133
n-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 136
tert-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 130
Carbon disulfide	50.0	48.9		ug/Kg		98	60 - 140
Carbon tetrachloride	50.0	56.7		ug/Kg		113	70 - 142
Chlorobenzene	50.0	51.6		ug/Kg		103	70 - 130
Chloroethane	50.0	56.8		ug/Kg		114	65 - 130
Chloroform	50.0	53.7		ug/Kg		107	77 - 127
Chloromethane	50.0	55.4		ug/Kg		111	55 - 140
2-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 138
4-Chlorotoluene	50.0	50.5		ug/Kg		101	70 - 136
Chlorodibromomethane	50.0	56.2		ug/Kg		112	70 - 146
1,2-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 130
1,3-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 131
1,4-Dichlorobenzene	50.0	51.6		ug/Kg		103	70 - 130
1,3-Dichloropropane	50.0	52.1		ug/Kg		104	70 - 140
1,1-Dichloropropene	50.0	58.4		ug/Kg		117	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	55.8		ug/Kg		112	60 - 145
Ethylene Dibromide	50.0	54.6		ug/Kg		109	70 - 140
Dibromomethane	50.0	55.4		ug/Kg		111	70 - 139

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181428/5
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	50.0	62.1		ug/Kg		124	37 - 158
1,1-Dichloroethane	50.0	54.2		ug/Kg		108	70 - 130
1,2-Dichloroethane	50.0	54.0		ug/Kg		108	70 - 130
1,1-Dichloroethene	50.0	52.0		ug/Kg		104	74 - 122
cis-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	70 - 138
trans-1,2-Dichloroethene	50.0	55.7		ug/Kg		111	67 - 130
1,2-Dichloropropane	50.0	51.5		ug/Kg		103	73 - 127
cis-1,3-Dichloropropene	50.0	56.9		ug/Kg		114	68 - 147
trans-1,3-Dichloropropene	50.0	58.8		ug/Kg		118	70 - 155
Ethylbenzene	50.0	50.4		ug/Kg		101	80 - 137
Hexachlorobutadiene	50.0	53.0		ug/Kg		106	70 - 132
2-Hexanone	250	264		ug/Kg		105	44 - 133
Isopropylbenzene	50.0	51.1		ug/Kg		102	70 - 130
4-Isopropyltoluene	50.0	49.6		ug/Kg		99	70 - 133
Methylene Chloride	50.0	52.2		ug/Kg		104	70 - 134
4-Methyl-2-pentanone (MIBK)	250	263		ug/Kg		105	60 - 160
Naphthalene	50.0	52.8		ug/Kg		106	60 - 147
N-Propylbenzene	50.0	50.5		ug/Kg		101	70 - 130
Styrene	50.0	49.4		ug/Kg		99	70 - 130
1,1,1,2-Tetrachloroethane	50.0	55.7		ug/Kg		111	70 - 130
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/Kg		102	70 - 146
Tetrachloroethene	50.0	58.2		ug/Kg		116	70 - 132
Toluene	50.0	52.2		ug/Kg		104	80 - 128
1,2,3-Trichlorobenzene	50.0	53.4		ug/Kg		107	60 - 140
1,2,4-Trichlorobenzene	50.0	53.9		ug/Kg		108	60 - 140
1,1,1-Trichloroethane	50.0	53.5		ug/Kg		107	70 - 130
1,1,2-Trichloroethane	50.0	53.3		ug/Kg		107	70 - 130
Trichloroethene	50.0	55.0		ug/Kg		110	70 - 133
Trichlorofluoromethane	50.0	57.2		ug/Kg		114	60 - 140
1,2,3-Trichloropropane	50.0	51.4		ug/Kg		103	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.5		ug/Kg		105	60 - 140
1,2,4-Trimethylbenzene	50.0	49.9		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.7		ug/Kg		101	70 - 131
Vinyl acetate	50.0	122	*	ug/Kg		244	38 - 176
Vinyl chloride	50.0	55.7		ug/Kg		111	58 - 125
m-Xylene & p-Xylene	50.0	51.2		ug/Kg		102	70 - 146
o-Xylene	50.0	50.1		ug/Kg		100	70 - 140
2,2-Dichloropropane	50.0	59.1		ug/Kg		118	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*91*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*
Toluene-d8 (Surr)	*100*		*58 - 140*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181428/7
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1140		ug/Kg		114	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*94*		*60 - 140*
Toluene-d8 (Surr)	*97*		*58 - 140*

Lab Sample ID: LCSD 720-181428/6
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	54.9		ug/Kg		110	70 - 144	3	20
Acetone	250	286		ug/Kg		114	30 - 162	4	30
Benzene	50.0	52.7		ug/Kg		105	70 - 130	3	20
Dichlorobromomethane	50.0	52.8		ug/Kg		106	70 - 140	0	20
Bromobenzene	50.0	54.1		ug/Kg		108	70 - 130	2	20
Chlorobromomethane	50.0	57.8		ug/Kg		116	70 - 130	4	20
Bromoform	50.0	50.6		ug/Kg		101	59 - 158	0	20
Bromomethane	50.0	59.9		ug/Kg		120	59 - 132	4	20
2-Butanone (MEK)	250	259		ug/Kg		104	53 - 133	7	20
n-Butylbenzene	50.0	52.1		ug/Kg		104	70 - 142	2	20
sec-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 136	2	20
tert-Butylbenzene	50.0	51.0		ug/Kg		102	70 - 130	1	20
Carbon disulfide	50.0	51.7		ug/Kg		103	60 - 140	6	20
Carbon tetrachloride	50.0	57.7		ug/Kg		115	70 - 142	2	20
Chlorobenzene	50.0	52.1		ug/Kg		104	70 - 130	1	20
Chloroethane	50.0	56.1		ug/Kg		112	65 - 130	1	20
Chloroform	50.0	55.4		ug/Kg		111	77 - 127	3	20
Chloromethane	50.0	56.3		ug/Kg		113	55 - 140	2	20
2-Chlorotoluene	50.0	51.3		ug/Kg		103	70 - 138	2	20
4-Chlorotoluene	50.0	52.2		ug/Kg		104	70 - 136	3	20
Chlorodibromomethane	50.0	55.8		ug/Kg		112	70 - 146	1	20
1,2-Dichlorobenzene	50.0	52.4		ug/Kg		105	70 - 130	1	20
1,3-Dichlorobenzene	50.0	52.5		ug/Kg		105	70 - 131	0	20
1,4-Dichlorobenzene	50.0	53.0		ug/Kg		106	70 - 130	3	20
1,3-Dichloropropane	50.0	54.3		ug/Kg		109	70 - 140	4	20
1,1-Dichloropropene	50.0	60.5		ug/Kg		121	70 - 130	4	20
1,2-Dibromo-3-Chloropropane	50.0	54.4		ug/Kg		109	60 - 145	2	20
Ethylene Dibromide	50.0	55.1		ug/Kg		110	70 - 140	1	20
Dibromomethane	50.0	55.4		ug/Kg		111	70 - 139	0	20
Dichlorodifluoromethane	50.0	62.6		ug/Kg		125	37 - 158	1	20
1,1-Dichloroethane	50.0	55.2		ug/Kg		110	70 - 130	2	20
1,2-Dichloroethane	50.0	54.6		ug/Kg		109	70 - 130	1	20
1,1-Dichloroethene	50.0	50.9		ug/Kg		102	74 - 122	2	20
cis-1,2-Dichloroethene	50.0	55.0		ug/Kg		110	70 - 138	3	20
trans-1,2-Dichloroethene	50.0	55.0		ug/Kg		110	67 - 130	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181428/6
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			50.0	52.4		ug/Kg		105	73 - 127	2	20
cis-1,3-Dichloropropene			50.0	58.2		ug/Kg		116	68 - 147	2	20
trans-1,3-Dichloropropene			50.0	59.3		ug/Kg		119	70 - 155	1	20
Ethylbenzene			50.0	50.4		ug/Kg		101	80 - 137	0	20
Hexachlorobutadiene			50.0	55.6		ug/Kg		111	70 - 132	5	20
2-Hexanone			250	252		ug/Kg		101	44 - 133	4	20
Isopropylbenzene			50.0	51.4		ug/Kg		103	70 - 130	0	20
4-Isopropyltoluene			50.0	50.9		ug/Kg		102	70 - 133	3	20
Methylene Chloride			50.0	53.7		ug/Kg		107	70 - 134	3	20
4-Methyl-2-pentanone (MIBK)			250	257		ug/Kg		103	60 - 160	2	20
Naphthalene			50.0	53.7		ug/Kg		107	60 - 147	2	20
N-Propylbenzene			50.0	51.5		ug/Kg		103	70 - 130	2	20
Styrene			50.0	49.6		ug/Kg		99	70 - 130	0	20
1,1,1,2-Tetrachloroethane			50.0	55.7		ug/Kg		111	70 - 130	0	20
1,1,2,2-Tetrachloroethane			50.0	50.8		ug/Kg		102	70 - 146	1	20
Tetrachloroethene			50.0	57.9		ug/Kg		116	70 - 132	0	20
Toluene			50.0	52.1		ug/Kg		104	80 - 128	0	20
1,2,3-Trichlorobenzene			50.0	54.8		ug/Kg		110	60 - 140	3	20
1,2,4-Trichlorobenzene			50.0	54.7		ug/Kg		109	60 - 140	1	20
1,1,1-Trichloroethane			50.0	55.0		ug/Kg		110	70 - 130	3	20
1,1,2-Trichloroethane			50.0	52.4		ug/Kg		105	70 - 130	2	20
Trichloroethene			50.0	56.3		ug/Kg		113	70 - 133	2	20
Trichlorofluoromethane			50.0	58.8		ug/Kg		118	60 - 140	3	20
1,2,3-Trichloropropane			50.0	51.2		ug/Kg		102	70 - 146	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	53.1		ug/Kg		106	60 - 140	1	20
1,2,4-Trimethylbenzene			50.0	50.6		ug/Kg		101	70 - 130	1	20
1,3,5-Trimethylbenzene			50.0	51.8		ug/Kg		104	70 - 131	2	20
Vinyl acetate			50.0	123	*	ug/Kg		245	38 - 176	0	20
Vinyl chloride			50.0	56.8		ug/Kg		114	58 - 125	2	20
m-Xylene & p-Xylene			50.0	51.9		ug/Kg		104	70 - 146	1	20
o-Xylene			50.0	50.6		ug/Kg		101	70 - 140	1	20
2,2-Dichloropropane			50.0	59.1		ug/Kg		118	70 - 162	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*102*		*58 - 140*

Lab Sample ID: LCSD 720-181428/8
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1120		ug/Kg		112	61 - 128	2	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181428/8
Matrix: Solid
Analysis Batch: 181428

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene	95		45 - 131
1,2-Dichloroethane-d4 (Surr)	99		60 - 140
Toluene-d8 (Surr)	98		58 - 140

Lab Sample ID: MB 720-181623/4
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		500		ug/Kg			05/14/15 08:31	100
Acetone	ND		5000		ug/Kg			05/14/15 08:31	100
Benzene	ND		500		ug/Kg			05/14/15 08:31	100
Dichlorobromomethane	ND		500		ug/Kg			05/14/15 08:31	100
Bromobenzene	ND		500		ug/Kg			05/14/15 08:31	100
Chlorobromomethane	ND		2000		ug/Kg			05/14/15 08:31	100
Bromoform	ND		500		ug/Kg			05/14/15 08:31	100
Bromomethane	ND		1000		ug/Kg			05/14/15 08:31	100
2-Butanone (MEK)	ND		5000		ug/Kg			05/14/15 08:31	100
n-Butylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
sec-Butylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
tert-Butylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
Carbon disulfide	ND		500		ug/Kg			05/14/15 08:31	100
Carbon tetrachloride	ND		500		ug/Kg			05/14/15 08:31	100
Chlorobenzene	ND		500		ug/Kg			05/14/15 08:31	100
Chloroethane	ND		1000		ug/Kg			05/14/15 08:31	100
Chloroform	ND		500		ug/Kg			05/14/15 08:31	100
Chloromethane	ND		1000		ug/Kg			05/14/15 08:31	100
2-Chlorotoluene	ND		500		ug/Kg			05/14/15 08:31	100
4-Chlorotoluene	ND		500		ug/Kg			05/14/15 08:31	100
Chlorodibromomethane	ND		500		ug/Kg			05/14/15 08:31	100
1,2-Dichlorobenzene	ND		500		ug/Kg			05/14/15 08:31	100
1,3-Dichlorobenzene	ND		500		ug/Kg			05/14/15 08:31	100
1,4-Dichlorobenzene	ND		500		ug/Kg			05/14/15 08:31	100
1,3-Dichloropropane	ND		500		ug/Kg			05/14/15 08:31	100
1,1-Dichloropropene	ND		500		ug/Kg			05/14/15 08:31	100
1,2-Dibromo-3-Chloropropane	ND		500		ug/Kg			05/14/15 08:31	100
Ethylene Dibromide	ND		500		ug/Kg			05/14/15 08:31	100
Dibromomethane	ND		1000		ug/Kg			05/14/15 08:31	100
Dichlorodifluoromethane	ND		1000		ug/Kg			05/14/15 08:31	100
1,1-Dichloroethane	ND		500		ug/Kg			05/14/15 08:31	100
1,2-Dichloroethane	ND		500		ug/Kg			05/14/15 08:31	100
1,1-Dichloroethene	ND		500		ug/Kg			05/14/15 08:31	100
cis-1,2-Dichloroethene	ND		500		ug/Kg			05/14/15 08:31	100
trans-1,2-Dichloroethene	ND		500		ug/Kg			05/14/15 08:31	100
1,2-Dichloropropane	ND		500		ug/Kg			05/14/15 08:31	100
cis-1,3-Dichloropropene	ND		500		ug/Kg			05/14/15 08:31	100
trans-1,3-Dichloropropene	ND		500		ug/Kg			05/14/15 08:31	100
Ethylbenzene	ND		500		ug/Kg			05/14/15 08:31	100

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: MB 720-181623/4
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		500		ug/Kg			05/14/15 08:31	100
2-Hexanone	ND		5000		ug/Kg			05/14/15 08:31	100
Isopropylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
4-Isopropyltoluene	ND		500		ug/Kg			05/14/15 08:31	100
Methylene Chloride	ND		1000		ug/Kg			05/14/15 08:31	100
4-Methyl-2-pentanone (MIBK)	ND		5000		ug/Kg			05/14/15 08:31	100
Naphthalene	ND		1000		ug/Kg			05/14/15 08:31	100
N-Propylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
Styrene	ND		500		ug/Kg			05/14/15 08:31	100
1,1,1,2-Tetrachloroethane	ND		500		ug/Kg			05/14/15 08:31	100
1,1,2,2-Tetrachloroethane	ND		500		ug/Kg			05/14/15 08:31	100
Tetrachloroethene	ND		500		ug/Kg			05/14/15 08:31	100
Toluene	ND		500		ug/Kg			05/14/15 08:31	100
1,2,3-Trichlorobenzene	ND		500		ug/Kg			05/14/15 08:31	100
1,2,4-Trichlorobenzene	ND		500		ug/Kg			05/14/15 08:31	100
1,1,1-Trichloroethane	ND		500		ug/Kg			05/14/15 08:31	100
1,1,2-Trichloroethane	ND		500		ug/Kg			05/14/15 08:31	100
Trichloroethene	ND		500		ug/Kg			05/14/15 08:31	100
Trichlorofluoromethane	ND		500		ug/Kg			05/14/15 08:31	100
1,2,3-Trichloropropane	ND		500		ug/Kg			05/14/15 08:31	100
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500		ug/Kg			05/14/15 08:31	100
1,2,4-Trimethylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
1,3,5-Trimethylbenzene	ND		500		ug/Kg			05/14/15 08:31	100
Vinyl acetate	ND		5000		ug/Kg			05/14/15 08:31	100
Vinyl chloride	ND		500		ug/Kg			05/14/15 08:31	100
Xylenes, Total	ND		1000		ug/Kg			05/14/15 08:31	100
2,2-Dichloropropane	ND		500		ug/Kg			05/14/15 08:31	100
Gasoline Range Organics (GRO) -C5-C12	ND		25000		ug/Kg			05/14/15 08:31	100

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*66 - 148*		*05/14/15 08:31*	*100*
1,2-Dichloroethane-d4 (Surr)	*123*		*62 - 137*		*05/14/15 08:31*	*100*
Toluene-d8 (Surr)	*102*		*65 - 141*		*05/14/15 08:31*	*100*

Lab Sample ID: LCS 720-181623/15
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			100000	106000		ug/Kg		106	60 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*96*		*62 - 137*
Toluene-d8 (Surr)	*101*		*65 - 141*

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181623/5
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	5000	5060		ug/Kg		101	71 - 146
Acetone	25000	23500		ug/Kg		94	12 - 234
Benzene	5000	5080		ug/Kg		102	76 - 122
Dichlorobromomethane	5000	5050		ug/Kg		101	80 - 131
Bromobenzene	5000	5120		ug/Kg		102	77 - 125
Chlorobromomethane	5000	5160		ug/Kg		103	74 - 134
Bromoform	5000	5180		ug/Kg		104	54 - 149
Bromomethane	5000	5060		ug/Kg		101	14 - 175
2-Butanone (MEK)	25000	24700		ug/Kg		99	58 - 159
n-Butylbenzene	5000	5420		ug/Kg		108	57 - 164
sec-Butylbenzene	5000	5160		ug/Kg		103	62 - 153
tert-Butylbenzene	5000	5080		ug/Kg		102	72 - 136
Carbon disulfide	5000	4810		ug/Kg		96	13 - 151
Carbon tetrachloride	5000	5100		ug/Kg		102	72 - 136
Chlorobenzene	5000	5270		ug/Kg		105	81 - 128
Chloroethane	5000	5250		ug/Kg		105	53 - 124
Chloroform	5000	5050		ug/Kg		101	75 - 133
Chloromethane	5000	5190		ug/Kg		104	43 - 146
2-Chlorotoluene	5000	5120		ug/Kg		102	66 - 143
4-Chlorotoluene	5000	5160		ug/Kg		103	73 - 136
Chlorodibromomethane	5000	5190		ug/Kg		104	76 - 134
1,2-Dichlorobenzene	5000	5130		ug/Kg		103	77 - 140
1,3-Dichlorobenzene	5000	5160		ug/Kg		103	71 - 135
1,4-Dichlorobenzene	5000	5170		ug/Kg		103	76 - 130
1,3-Dichloropropane	5000	5070		ug/Kg		101	73 - 133
1,1-Dichloropropene	5000	5510		ug/Kg		110	81 - 134
1,2-Dibromo-3-Chloropropane	5000	4890		ug/Kg		98	52 - 156
Ethylene Dibromide	5000	5200		ug/Kg		104	70 - 138
Dibromomethane	5000	5180		ug/Kg		104	70 - 139
Dichlorodifluoromethane	5000	5460		ug/Kg		109	30 - 120
1,1-Dichloroethane	5000	5090		ug/Kg		102	79 - 125
1,2-Dichloroethane	5000	5000		ug/Kg		100	67 - 126
1,1-Dichloroethene	5000	4480		ug/Kg		90	74 - 122
cis-1,2-Dichloroethene	5000	5110		ug/Kg		102	70 - 130
trans-1,2-Dichloroethene	5000	4850		ug/Kg		97	74 - 128
1,2-Dichloropropane	5000	5130		ug/Kg		103	70 - 130
cis-1,3-Dichloropropene	5000	5520		ug/Kg		110	79 - 144
trans-1,3-Dichloropropene	5000	5910		ug/Kg		118	78 - 144
Ethylbenzene	5000	5310		ug/Kg		106	76 - 137
Hexachlorobutadiene	5000	5500		ug/Kg		110	63 - 150
2-Hexanone	25000	24100		ug/Kg		97	54 - 124
Isopropylbenzene	5000	5340		ug/Kg		107	65 - 128
4-Isopropyltoluene	5000	5210		ug/Kg		104	62 - 153
Methylene Chloride	5000	4750		ug/Kg		95	79 - 128
4-Methyl-2-pentanone (MIBK)	25000	23900		ug/Kg		96	53 - 129
Naphthalene	5000	4930		ug/Kg		99	62 - 151
N-Propylbenzene	5000	5250		ug/Kg		105	65 - 144
Styrene	5000	5200		ug/Kg		104	79 - 139

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCS 720-181623/5
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	5000	5300		ug/Kg		106	72 - 129
1,1,2,2-Tetrachloroethane	5000	4790		ug/Kg		96	69 - 133
Tetrachloroethene	5000	5390		ug/Kg		108	79 - 130
Toluene	5000	5240		ug/Kg		105	77 - 120
1,2,3-Trichlorobenzene	5000	5240		ug/Kg		105	72 - 159
1,2,4-Trichlorobenzene	5000	5520		ug/Kg		110	71 - 163
1,1,1-Trichloroethane	5000	4990		ug/Kg		100	69 - 132
1,1,2-Trichloroethane	5000	5050		ug/Kg		101	80 - 140
Trichloroethene	5000	5240		ug/Kg		105	69 - 129
Trichlorofluoromethane	5000	5230		ug/Kg		105	49 - 140
1,2,3-Trichloropropane	5000	4910		ug/Kg		98	74 - 135
1,1,2-Trichloro-1,2,2-trifluoroethane	5000	4770		ug/Kg		95	66 - 128
1,2,4-Trimethylbenzene	5000	5160		ug/Kg		103	62 - 155
1,3,5-Trimethylbenzene	5000	5180		ug/Kg		104	69 - 142
Vinyl acetate	5000	5790		ug/Kg		116	56 - 200
Vinyl chloride	5000	4080		ug/Kg		82	10 - 118
m-Xylene & p-Xylene	5000	5370		ug/Kg		107	71 - 142
o-Xylene	5000	5250		ug/Kg		105	71 - 142
2,2-Dichloropropane	5000	4930		ug/Kg		99	67 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*95*		*62 - 137*
Toluene-d8 (Surr)	*102*		*65 - 141*

Lab Sample ID: LCSD 720-181623/16
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	100000	100000		ug/Kg		100	60 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*94*		*62 - 137*
Toluene-d8 (Surr)	*101*		*65 - 141*

Lab Sample ID: LCSD 720-181623/6
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	5000	5090		ug/Kg		102	71 - 146	1	20
Acetone	25000	26600		ug/Kg		106	12 - 234	12	30
Benzene	5000	5130		ug/Kg		103	76 - 122	1	20
Dichlorobromomethane	5000	4970		ug/Kg		99	80 - 131	2	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181623/6
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	5000	5120		ug/Kg		102	77 - 125	0	20
Chlorobromomethane	5000	5130		ug/Kg		103	74 - 134	1	20
Bromoform	5000	5480		ug/Kg		110	54 - 149	6	20
Bromomethane	5000	5190		ug/Kg		104	14 - 175	3	20
2-Butanone (MEK)	25000	27000		ug/Kg		108	58 - 159	9	20
n-Butylbenzene	5000	5500		ug/Kg		110	57 - 164	1	20
sec-Butylbenzene	5000	5270		ug/Kg		105	62 - 153	2	20
tert-Butylbenzene	5000	5160		ug/Kg		103	72 - 136	2	20
Carbon disulfide	5000	5010		ug/Kg		100	13 - 151	4	20
Carbon tetrachloride	5000	5240		ug/Kg		105	72 - 136	3	20
Chlorobenzene	5000	5240		ug/Kg		105	81 - 128	0	20
Chloroethane	5000	5320		ug/Kg		106	53 - 124	1	20
Chloroform	5000	4990		ug/Kg		100	75 - 133	1	20
Chloromethane	5000	5290		ug/Kg		106	43 - 146	2	20
2-Chlorotoluene	5000	5100		ug/Kg		102	66 - 143	0	20
4-Chlorotoluene	5000	5130		ug/Kg		103	73 - 136	1	20
Chlorodibromomethane	5000	5150		ug/Kg		103	76 - 134	1	20
1,2-Dichlorobenzene	5000	5120		ug/Kg		102	77 - 140	0	20
1,3-Dichlorobenzene	5000	5130		ug/Kg		103	71 - 135	1	20
1,4-Dichlorobenzene	5000	5110		ug/Kg		102	76 - 130	1	20
1,3-Dichloropropane	5000	5130		ug/Kg		103	73 - 133	1	20
1,1-Dichloropropene	5000	5630		ug/Kg		113	81 - 134	2	20
1,2-Dibromo-3-Chloropropane	5000	5480		ug/Kg		110	52 - 156	11	20
Ethylene Dibromide	5000	5320		ug/Kg		106	70 - 138	2	20
Dibromomethane	5000	5220		ug/Kg		104	70 - 139	1	20
Dichlorodifluoromethane	5000	5550		ug/Kg		111	30 - 120	2	20
1,1-Dichloroethane	5000	5070		ug/Kg		101	79 - 125	0	20
1,2-Dichloroethane	5000	4960		ug/Kg		99	67 - 126	1	20
1,1-Dichloroethene	5000	4570		ug/Kg		91	74 - 122	2	20
cis-1,2-Dichloroethene	5000	5010		ug/Kg		100	70 - 130	2	20
trans-1,2-Dichloroethene	5000	4990		ug/Kg		100	74 - 128	3	20
1,2-Dichloropropane	5000	5000		ug/Kg		100	70 - 130	3	20
cis-1,3-Dichloropropene	5000	5450		ug/Kg		109	79 - 144	1	20
trans-1,3-Dichloropropene	5000	5780		ug/Kg		116	78 - 144	2	20
Ethylbenzene	5000	5340		ug/Kg		107	76 - 137	1	20
Hexachlorobutadiene	5000	5540		ug/Kg		111	63 - 150	1	20
2-Hexanone	25000	28300		ug/Kg		113	54 - 124	16	20
Isopropylbenzene	5000	5410		ug/Kg		108	65 - 128	1	20
4-Isopropyltoluene	5000	5290		ug/Kg		106	62 - 153	2	20
Methylene Chloride	5000	4830		ug/Kg		97	79 - 128	2	20
4-Methyl-2-pentanone (MIBK)	25000	27200		ug/Kg		109	53 - 129	13	20
Naphthalene	5000	5180		ug/Kg		104	62 - 151	5	20
N-Propylbenzene	5000	5260		ug/Kg		105	65 - 144	0	20
Styrene	5000	5160		ug/Kg		103	79 - 139	1	20
1,1,1,2-Tetrachloroethane	5000	5250		ug/Kg		105	72 - 129	1	20
1,1,2,2-Tetrachloroethane	5000	5080		ug/Kg		102	69 - 133	6	20
Tetrachloroethene	5000	5430		ug/Kg		109	79 - 130	1	20
Toluene	5000	5260		ug/Kg		105	77 - 120	1	20

Method: 8260B/CA_LUFTMS - 8260B / CA LUFT MS (Continued)

Lab Sample ID: LCSD 720-181623/6
Matrix: Solid
Analysis Batch: 181623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene			5000	5300		ug/Kg		106	72 - 159	1	20
1,2,4-Trichlorobenzene			5000	5510		ug/Kg		110	71 - 163	0	20
1,1,1-Trichloroethane			5000	5070		ug/Kg		101	69 - 132	2	20
1,1,2-Trichloroethane			5000	5170		ug/Kg		103	80 - 140	2	20
Trichloroethene			5000	5230		ug/Kg		105	69 - 129	0	20
Trichlorofluoromethane			5000	5200		ug/Kg		104	49 - 140	1	20
1,2,3-Trichloropropane			5000	5270		ug/Kg		105	74 - 135	7	20
1,1,2-Trichloro-1,2,2-trifluoroethane			5000	5060		ug/Kg		101	66 - 128	6	20
1,2,4-Trimethylbenzene			5000	5160		ug/Kg		103	62 - 155	0	20
1,3,5-Trimethylbenzene			5000	5200		ug/Kg		104	69 - 142	0	20
Vinyl acetate			5000	6080		ug/Kg		122	56 - 200	5	20
Vinyl chloride			5000	4080		ug/Kg		82	10 - 118	0	20
m-Xylene & p-Xylene			5000	5380		ug/Kg		108	71 - 142	0	20
o-Xylene			5000	5260		ug/Kg		105	71 - 142	0	20
2,2-Dichloropropane			5000	4970		ug/Kg		99	67 - 146	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*66 - 148*
1,2-Dichloroethane-d4 (Surr)	*96*		*62 - 137*
Toluene-d8 (Surr)	*103*		*65 - 141*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-181296/1-A
Matrix: Solid
Analysis Batch: 181272

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181296

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C9-C24]	ND		1.0		mg/Kg		05/08/15 15:07	05/09/15 03:18	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		05/08/15 15:07	05/09/15 03:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*110*		*40 - 130*	*05/08/15 15:07*	*05/09/15 03:18*	*1*

Lab Sample ID: LCS 720-181296/2-A
Matrix: Solid
Analysis Batch: 181272

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181296

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*108*		*40 - 130*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 720-181383/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181348 — **Prep Batch: 181383**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		50		ug/L		05/11/15 14:10	05/12/15 03:40	1
Motor Oil Range Organics [C24-C36]	ND		99		ug/L		05/11/15 14:10	05/12/15 03:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*103*		*23 - 156*	*05/11/15 14:10*	*05/12/15 03:40*	*1*

Lab Sample ID: LCS 720-181383/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181348 — **Prep Batch: 181383**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	2500	2230		ug/L		89	34 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*112*		*23 - 156*

Lab Sample ID: LCSD 720-181383/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181348 — **Prep Batch: 181383**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	2500	2310		ug/L		92	34 - 115	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
p-Terphenyl	*102*		*23 - 156*

Lab Sample ID: MB 720-181458/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181445 — **Prep Batch: 181458**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C9-C24]	ND		0.99		mg/Kg		05/12/15 13:26	05/13/15 04:12	1
Motor Oil Range Organics [C24-C36]	ND		49		mg/Kg		05/12/15 13:26	05/13/15 04:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*40 - 130*	*05/12/15 13:26*	*05/13/15 04:12*	*1*

Lab Sample ID: LCS 720-181458/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181445 — **Prep Batch: 181458**

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*86*		*40 - 130*

QC Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-181441/1-A
Matrix: Water
Analysis Batch: 181514

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181441

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Dieldrin	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Endrin aldehyde	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Endrin	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Endrin ketone	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Heptachlor	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Heptachlor epoxide	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
4,4'-DDT	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
4,4'-DDE	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
4,4'-DDD	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Endosulfan I	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Endosulfan II	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
alpha-BHC	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
beta-BHC	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
gamma-BHC (Lindane)	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
delta-BHC	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Endosulfan sulfate	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Methoxychlor	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
Toxaphene	ND		1.0		ug/L		05/12/15 09:58	05/13/15 03:57	1
Chlordane (technical)	ND		1.0		ug/L		05/12/15 09:58	05/13/15 03:57	1
alpha-Chlordane	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1
gamma-Chlordane	ND		0.060		ug/L		05/12/15 09:58	05/13/15 03:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*36 - 112*	*05/12/15 09:58*	*05/13/15 03:57*	*1*
DCB Decachlorobiphenyl	*101*		*14 - 126*	*05/12/15 09:58*	*05/13/15 03:57*	*1*

Lab Sample ID: LCS 720-181441/2-A
Matrix: Water
Analysis Batch: 181514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	0.500	0.403		ug/L		81	44 - 120
Dieldrin	0.500	0.484		ug/L		97	43 - 120
Endrin aldehyde	0.500	0.470		ug/L		94	40 - 120
Endrin	0.500	0.499		ug/L		100	15 - 138
Endrin ketone	0.500	0.491		ug/L		98	40 - 120
Heptachlor	0.500	0.456		ug/L		91	17 - 128
Heptachlor epoxide	0.500	0.472		ug/L		94	40 - 120
4,4'-DDT	0.500	0.492		ug/L		98	46 - 120
4,4'-DDE	0.500	0.493		ug/L		99	40 - 120
4,4'-DDD	0.500	0.529		ug/L		106	40 - 120
Endosulfan I	0.500	0.472		ug/L		94	40 - 120
Endosulfan II	0.500	0.506		ug/L		101	40 - 120
alpha-BHC	0.500	0.454		ug/L		91	40 - 120
beta-BHC	0.500	0.534		ug/L		107	40 - 120
gamma-BHC (Lindane)	0.500	0.466		ug/L		93	46 - 121
delta-BHC	0.500	0.439		ug/L		88	40 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-181441/2-A
Matrix: Water
Analysis Batch: 181514

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181441

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	0.500	0.476		ug/L		95	40 - 120
Methoxychlor	0.500	0.500		ug/L		100	40 - 120
alpha-Chlordane	0.500	0.487		ug/L		97	40 - 120
gamma-Chlordane	0.500	0.485		ug/L		97	40 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*98*		*36 - 112*
DCB Decachlorobiphenyl	*105*		*14 - 126*

Lab Sample ID: LCSD 720-181441/3-A
Matrix: Water
Analysis Batch: 181514

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181441

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	0.500	0.381		ug/L		76	44 - 120	10	20
Dieldrin	0.500	0.478		ug/L		96	43 - 120	5	20
Endrin aldehyde	0.500	0.472		ug/L		94	40 - 120	1	20
Endrin	0.500	0.495		ug/L		99	15 - 138	4	20
Endrin ketone	0.500	0.490		ug/L		98	40 - 120	0	20
Heptachlor	0.500	0.444		ug/L		89	17 - 128	3	20
Heptachlor epoxide	0.500	0.466		ug/L		93	40 - 120	1	20
4,4'-DDT	0.500	0.490		ug/L		98	46 - 120	0	20
4,4'-DDE	0.500	0.486		ug/L		97	40 - 120	2	20
4,4'-DDD	0.500	0.525		ug/L		105	40 - 120	1	20
Endosulfan I	0.500	0.466		ug/L		93	40 - 120	1	30
Endosulfan II	0.500	0.500		ug/L		100	40 - 120	1	20
alpha-BHC	0.500	0.439		ug/L		88	40 - 120	3	20
beta-BHC	0.500	0.521		ug/L		104	40 - 120	4	20
gamma-BHC (Lindane)	0.500	0.453		ug/L		91	46 - 121	5	20
delta-BHC	0.500	0.437		ug/L		87	40 - 120	0	20
Endosulfan sulfate	0.500	0.475		ug/L		95	40 - 120	0	20
Methoxychlor	0.500	0.501		ug/L		100	40 - 120	0	20
alpha-Chlordane	0.500	0.479		ug/L		96	40 - 120	2	20
gamma-Chlordane	0.500	0.478		ug/L		96	40 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*36 - 112*
DCB Decachlorobiphenyl	*101*		*14 - 126*

Lab Sample ID: MB 720-181486/1-A
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Dieldrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Endrin aldehyde	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Endrin	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 720-181486/1-A
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Heptachlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
4,4'-DDT	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
4,4'-DDE	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
4,4'-DDD	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Endosulfan I	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Endosulfan II	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
alpha-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
beta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
delta-BHC	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Methoxychlor	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Toxaphene	ND		39		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
Chlordane (technical)	ND		39		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
alpha-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1
gamma-Chlordane	ND		2.0		ug/Kg		05/12/15 17:02	05/14/15 03:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*99*		*57 - 122*	*05/12/15 17:02*	*05/14/15 03:17*	*1*
DCB Decachlorobiphenyl	*116*		*21 - 136*	*05/12/15 17:02*	*05/14/15 03:17*	*1*

Lab Sample ID: LCS 720-181486/2-A
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181486

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.5	14.4		ug/Kg		88	65 - 120
Dieldrin	16.5	16.4		ug/Kg		100	72 - 120
Endrin aldehyde	16.5	15.3		ug/Kg		93	68 - 120
Endrin	16.5	16.9		ug/Kg		103	68 - 120
Endrin ketone	16.5	16.0		ug/Kg		97	67 - 120
Heptachlor	16.5	16.1		ug/Kg		98	69 - 120
Heptachlor epoxide	16.5	16.6		ug/Kg		101	68 - 120
4,4'-DDT	16.5	16.5		ug/Kg		100	63 - 127
4,4'-DDE	16.5	16.8		ug/Kg		102	70 - 120
4,4'-DDD	16.5	17.5		ug/Kg		106	69 - 120
Endosulfan I	16.5	16.6		ug/Kg		101	62 - 120
Endosulfan II	16.5	16.6		ug/Kg		101	65 - 120
alpha-BHC	16.5	15.9		ug/Kg		97	62 - 120
beta-BHC	16.5	18.0		ug/Kg		109	74 - 124
gamma-BHC (Lindane)	16.5	16.2		ug/Kg		99	72 - 120
delta-BHC	16.5	15.7		ug/Kg		95	43 - 125
Endosulfan sulfate	16.5	16.6		ug/Kg		101	67 - 120
Methoxychlor	16.5	15.8		ug/Kg		96	71 - 132
alpha-Chlordane	16.5	16.6		ug/Kg		101	70 - 120
gamma-Chlordane	16.5	16.6		ug/Kg		101	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*105*		*57 - 122*
DCB Decachlorobiphenyl	*105*		*21 - 136*

Lab Sample ID: 720-64632-5 MS
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: A-15-002-1.5
Prep Type: Total/NA
Prep Batch: 181486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		16.7	15.6		ug/Kg		94	53 - 120
Dieldrin	ND		16.7	16.4		ug/Kg		98	46 - 130
Endrin aldehyde	ND		16.7	15.3		ug/Kg		92	40 - 120
Endrin	ND		16.7	17.1		ug/Kg		103	32 - 143
Endrin ketone	ND		16.7	16.1		ug/Kg		97	40 - 120
Heptachlor	ND		16.7	15.8		ug/Kg		95	52 - 120
Heptachlor epoxide	ND		16.7	16.4		ug/Kg		98	40 - 120
4,4'-DDT	ND		16.7	16.7		ug/Kg		100	17 - 144
4,4'-DDE	ND		16.7	16.6		ug/Kg		100	40 - 120
4,4'-DDD	ND		16.7	17.8		ug/Kg		107	40 - 120
Endosulfan I	ND		16.7	16.8		ug/Kg		101	40 - 120
Endosulfan II	ND		16.7	16.7		ug/Kg		100	40 - 120
alpha-BHC	ND		16.7	15.2		ug/Kg		91	40 - 120
beta-BHC	ND	F1 F2	16.7	18.1		ug/Kg		109	40 - 120
gamma-BHC (Lindane)	ND		16.7	15.7		ug/Kg		94	58 - 120
delta-BHC	ND		16.7	15.4		ug/Kg		93	40 - 120
Endosulfan sulfate	ND		16.7	17.3		ug/Kg		104	40 - 120
Methoxychlor	ND		16.7	17.7		ug/Kg		106	40 - 120
alpha-Chlordane	ND		16.7	17.5		ug/Kg		105	40 - 120
gamma-Chlordane	ND		16.7	16.6		ug/Kg		100	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*97*		*57 - 122*
DCB Decachlorobiphenyl	*111*		*21 - 136*

Lab Sample ID: 720-64632-5 MSD
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: A-15-002-1.5
Prep Type: Total/NA
Prep Batch: 181486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aldrin	ND		16.6	14.5		ug/Kg		88	53 - 120	7	20
Dieldrin	ND		16.6	15.2		ug/Kg		92	46 - 130	7	20
Endrin aldehyde	ND		16.6	13.7		ug/Kg		83	40 - 120	11	20
Endrin	ND		16.6	15.9		ug/Kg		96	32 - 143	6	20
Endrin ketone	ND		16.6	14.6		ug/Kg		88	40 - 120	10	20
Heptachlor	ND		16.6	14.9		ug/Kg		90	52 - 120	6	20
Heptachlor epoxide	ND		16.6	15.3		ug/Kg		93	40 - 120	6	20
4,4'-DDT	ND		16.6	15.2		ug/Kg		92	17 - 144	8	20
4,4'-DDE	ND		16.6	15.4		ug/Kg		93	40 - 120	8	20
4,4'-DDD	ND		16.6	16.3		ug/Kg		98	40 - 120	9	20
Endosulfan I	ND		16.6	15.7		ug/Kg		95	40 - 120	6	20
Endosulfan II	ND		16.6	15.3		ug/Kg		92	40 - 120	6	30
alpha-BHC	ND		16.6	14.3		ug/Kg		86	40 - 120	6	20
beta-BHC	ND	F2	16.6	17.1	p F2	ug/Kg		103	40 - 120	40	20
gamma-BHC (Lindane)	ND		16.6	14.7		ug/Kg		89	58 - 120	6	20

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 720-64632-5 MSD
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: A-15-002-1.5
Prep Type: Total/NA
Prep Batch: 181486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
delta-BHC	ND		16.6	14.2		ug/Kg		86	40 - 120	8	20
Endosulfan sulfate	ND		16.6	16.0		ug/Kg		97	40 - 120	8	20
Methoxychlor	ND		16.6	15.5		ug/Kg		94	40 - 120	13	20
alpha-Chlordane	ND		16.6	15.9		ug/Kg		96	40 - 120	9	20
gamma-Chlordane	ND		16.6	15.4		ug/Kg		93	40 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*57 - 122*
DCB Decachlorobiphenyl	*99*		*21 - 136*

Lab Sample ID: MB 720-181539/1-A
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Dieldrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Endrin aldehyde	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Endrin	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Endrin ketone	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Heptachlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Heptachlor epoxide	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
4,4'-DDT	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
4,4'-DDE	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
4,4'-DDD	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Endosulfan I	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Endosulfan II	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
alpha-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
beta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
delta-BHC	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Endosulfan sulfate	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Methoxychlor	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Toxaphene	ND		40		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
Chlordane (technical)	ND		40		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
alpha-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1
gamma-Chlordane	ND		2.0		ug/Kg		05/13/15 08:55	05/14/15 03:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*97*		*57 - 122*	*05/13/15 08:55*	*05/14/15 03:52*	*1*
DCB Decachlorobiphenyl	*101*		*21 - 136*	*05/13/15 08:55*	*05/14/15 03:52*	*1*

Lab Sample ID: LCS 720-181539/2-A
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.5	13.1		ug/Kg		80	65 - 120

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-181539/2-A
Matrix: Solid
Analysis Batch: 181620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	16.5	15.0		ug/Kg		91	72 - 120
Endrin aldehyde	16.5	14.5		ug/Kg		88	68 - 120
Endrin	16.5	15.4		ug/Kg		94	68 - 120
Endrin ketone	16.5	15.1		ug/Kg		92	67 - 120
Heptachlor	16.5	14.3		ug/Kg		87	69 - 120
Heptachlor epoxide	16.5	15.0		ug/Kg		91	68 - 120
4,4'-DDT	16.5	15.2		ug/Kg		92	63 - 127
4,4'-DDE	16.5	15.2		ug/Kg		93	70 - 120
4,4'-DDD	16.5	16.1		ug/Kg		98	69 - 120
Endosulfan I	16.5	15.0		ug/Kg		91	62 - 120
Endosulfan II	16.5	15.5		ug/Kg		94	65 - 120
alpha-BHC	16.5	14.2		ug/Kg		86	62 - 120
beta-BHC	16.5	16.7		ug/Kg		101	74 - 124
gamma-BHC (Lindane)	16.5	14.5		ug/Kg		88	72 - 120
delta-BHC	16.5	15.2		ug/Kg		92	43 - 125
Endosulfan sulfate	16.5	15.7		ug/Kg		95	67 - 120
Methoxychlor	16.5	15.4		ug/Kg		93	71 - 132
alpha-Chlordane	16.5	15.0		ug/Kg		91	70 - 120
gamma-Chlordane	16.5	15.0		ug/Kg		91	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*57 - 122*
DCB Decachlorobiphenyl	*99*		*21 - 136*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-181442/1-A
Matrix: Water
Analysis Batch: 181423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181442

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1
PCB-1221	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1
PCB-1232	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1
PCB-1242	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1
PCB-1248	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1
PCB-1254	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1
PCB-1260	ND		0.50		ug/L		05/12/15 10:02	05/13/15 00:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*19 - 98*	*05/12/15 10:02*	*05/13/15 00:09*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 122*	*05/12/15 10:02*	*05/13/15 00:09*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 720-181442/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181423 — **Prep Batch: 181442**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	3.79		ug/L		95	40 - 115
PCB-1260	4.00	3.33		ug/L		83	48 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*81*		*19 - 98*
DCB Decachlorobiphenyl	*85*		*10 - 122*

Lab Sample ID: LCSD 720-181442/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 181423 — **Prep Batch: 181442**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	3.69		ug/L		92	40 - 115	3	20
PCB-1260	4.00	3.29		ug/L		82	48 - 115	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*19 - 98*
DCB Decachlorobiphenyl	*85*		*10 - 122*

Lab Sample ID: MB 720-181484/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181520 — **Prep Batch: 181484**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/13/15 17:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*45 - 132*	*05/12/15 17:02*	*05/13/15 17:59*	*1*
DCB Decachlorobiphenyl	*100*		*42 - 146*	*05/12/15 17:02*	*05/13/15 17:59*	*1*

Lab Sample ID: MB 720-181484/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181519 — **Prep Batch: 181484**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1
PCB-1221	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1
PCB-1232	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1
PCB-1242	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1
PCB-1248	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1
PCB-1254	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 720-181484/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181519 — **Prep Batch: 181484**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		49		ug/Kg		05/12/15 17:02	05/14/15 02:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*45 - 132*	*05/12/15 17:02*	*05/14/15 02:09*	*1*
DCB Decachlorobiphenyl	*88*		*42 - 146*	*05/12/15 17:02*	*05/14/15 02:09*	*1*

Lab Sample ID: LCS 720-181484/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181520 — **Prep Batch: 181484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	131	121		ug/Kg		93	65 - 121
PCB-1260	131	109		ug/Kg		84	68 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*45 - 132*
DCB Decachlorobiphenyl	*101*		*42 - 146*

Lab Sample ID: LCS 720-181484/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181519 — **Prep Batch: 181484**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	131	110		ug/Kg		85	65 - 121
PCB-1260	131	101		ug/Kg		77	68 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*45 - 132*
DCB Decachlorobiphenyl	*86*		*42 - 146*

Lab Sample ID: 720-64632-5 MS — **Client Sample ID: A-15-002-1.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181520 — **Prep Batch: 181484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		130	109		ug/Kg			
PCB-1260	ND		130	102		ug/Kg			

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*45 - 132*
DCB Decachlorobiphenyl	*95*		*42 - 146*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 720-64632-5 MS — **Client Sample ID: A-15-002-1.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181519 — **Prep Batch: 181484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	ND		130	103		ug/Kg		80	69 - 120
PCB-1260	ND	F1	130	96.2		ug/Kg		74	73 - 114

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*45 - 132*
DCB Decachlorobiphenyl	*83*		*42 - 146*

Lab Sample ID: 720-64632-5 MSD — **Client Sample ID: A-15-002-1.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181520 — **Prep Batch: 181484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		130	108		ug/Kg				1	20
PCB-1260	ND		130	102		ug/Kg				0	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*82*		*45 - 132*
DCB Decachlorobiphenyl	*94*		*42 - 146*

Lab Sample ID: 720-64632-5 MSD — **Client Sample ID: A-15-002-1.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181519 — **Prep Batch: 181484**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	ND		130	101		ug/Kg		78	69 - 120	3	20
PCB-1260	ND	F1	130	93.8	F1	ug/Kg		72	73 - 114	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*45 - 132*
DCB Decachlorobiphenyl	*81*		*42 - 146*

Lab Sample ID: MB 720-181540/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181520 — **Prep Batch: 181540**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1
PCB-1221	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1
PCB-1232	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1
PCB-1242	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1
PCB-1248	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1
PCB-1254	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1
PCB-1260	ND		6.5		ug/Kg		05/13/15 09:02	05/13/15 23:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*84*		*45 - 132*	*05/13/15 09:02*	*05/13/15 23:52*	*1*
DCB Decachlorobiphenyl	*96*		*42 - 146*	*05/13/15 09:02*	*05/13/15 23:52*	*1*

Lab Sample ID: MB 720-181540/1-A
Matrix: Solid
Analysis Batch: 181519

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1
PCB-1221	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1
PCB-1232	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1
PCB-1242	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1
PCB-1248	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1
PCB-1254	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1
PCB-1260	ND		6.5		ug/Kg		05/13/15 09:02	05/14/15 01:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 132*	*05/13/15 09:02*	*05/14/15 01:36*	*1*
DCB Decachlorobiphenyl	*84*		*42 - 146*	*05/13/15 09:02*	*05/14/15 01:36*	*1*

Lab Sample ID: LCS 720-181540/2-A
Matrix: Solid
Analysis Batch: 181520

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			130	116		ug/Kg		89	65 - 121		
PCB-1260			130	108		ug/Kg		83	68 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*88*		*45 - 132*
DCB Decachlorobiphenyl	*99*		*42 - 146*

Lab Sample ID: LCS 720-181540/2-A
Matrix: Solid
Analysis Batch: 181519

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			130	109		ug/Kg		83	65 - 121		
PCB-1260			130	100		ug/Kg		77	68 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*79*		*45 - 132*
DCB Decachlorobiphenyl	*86*		*42 - 146*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-181494/1-A
Matrix: Solid
Analysis Batch: 181564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Arsenic	ND		1.0		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Barium	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Beryllium	ND		0.10		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Cadmium	ND		0.13		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Chromium	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 720-181494/1-A
Matrix: Solid
Analysis Batch: 181564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181494

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cobalt	ND		0.20		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Copper	ND		1.5		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Lead	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Molybdenum	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Nickel	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Selenium	ND		1.0		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Silver	ND		0.25		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Thallium	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Vanadium	ND		0.50		mg/Kg		05/12/15 18:19	05/13/15 10:58	1
Zinc	ND		1.5		mg/Kg		05/12/15 18:19	05/13/15 10:58	1

Lab Sample ID: LCS 720-181494/2-A
Matrix: Solid
Analysis Batch: 181564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181494

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.4		mg/Kg		95	80 - 120
Arsenic	50.0	48.9		mg/Kg		98	80 - 120
Barium	50.0	49.6		mg/Kg		99	80 - 120
Beryllium	50.0	50.0		mg/Kg		100	80 - 120
Cadmium	50.0	49.4		mg/Kg		99	80 - 120
Chromium	50.0	50.8		mg/Kg		102	80 - 120
Cobalt	50.0	50.6		mg/Kg		101	80 - 120
Copper	50.0	50.0		mg/Kg		100	80 - 120
Lead	50.0	50.6		mg/Kg		101	80 - 120
Molybdenum	50.0	50.9		mg/Kg		102	80 - 120
Nickel	50.0	49.9		mg/Kg		100	80 - 120
Selenium	50.0	47.9		mg/Kg		96	80 - 120
Silver	25.0	24.7		mg/Kg		99	80 - 120
Thallium	50.0	49.9		mg/Kg		100	80 - 120
Vanadium	50.0	48.5		mg/Kg		97	80 - 120
Zinc	50.0	49.8		mg/Kg		100	80 - 120

Lab Sample ID: LCSD 720-181494/3-A
Matrix: Solid
Analysis Batch: 181564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	48.2		mg/Kg		96	80 - 120	2	20
Arsenic	50.0	49.2		mg/Kg		98	80 - 120	1	20
Barium	50.0	50.5		mg/Kg		101	80 - 120	2	20
Beryllium	50.0	50.7		mg/Kg		101	80 - 120	1	20
Cadmium	50.0	49.5		mg/Kg		99	80 - 120	0	20
Chromium	50.0	51.0		mg/Kg		102	80 - 120	0	20
Cobalt	50.0	50.8		mg/Kg		102	80 - 120	0	20
Copper	50.0	50.2		mg/Kg		100	80 - 120	0	20
Lead	50.0	50.9		mg/Kg		102	80 - 120	1	20
Molybdenum	50.0	51.6		mg/Kg		103	80 - 120	1	20
Nickel	50.0	50.3		mg/Kg		101	80 - 120	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-181494/3-A
Matrix: Solid
Analysis Batch: 181564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181494

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Selenium	50.0	48.0		mg/Kg		96	80 - 120	0	20
Silver	25.0	24.9		mg/Kg		100	80 - 120	1	20
Thallium	50.0	50.2		mg/Kg		100	80 - 120	1	20
Vanadium	50.0	49.4		mg/Kg		99	80 - 120	2	20
Zinc	50.0	50.0		mg/Kg		100	80 - 120	0	20

Lab Sample ID: LCSSRM 720-181494/25-A
Matrix: Solid
Analysis Batch: 181564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181494

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	41.9		mg/Kg		56	11 - 101
Arsenic	45.5	43.3		mg/Kg		95	69 - 119
Barium	579	529		mg/Kg		91	61 - 117
Beryllium	155	145		mg/Kg		93	56 - 102
Cadmium	201	186		mg/Kg		93	67 - 118
Chromium	106	99.2		mg/Kg		94	67 - 121
Cobalt	247	237		mg/Kg		96	64 - 133
Copper	130	125		mg/Kg		96	68 - 126
Lead	302	282		mg/Kg		93	62 - 113
Molybdenum	165	156		mg/Kg		94	62 - 128
Nickel	305	287		mg/Kg		94	65 - 117
Selenium	133	126		mg/Kg		94	63 - 126
Silver	33.5	31.5		mg/Kg		94	51 - 130
Thallium	191	180		mg/Kg		94	64 - 124
Vanadium	214	201		mg/Kg		94	67 - 123
Zinc	388	359		mg/Kg		92	62 - 110

Lab Sample ID: MB 720-181498/1-A
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 181498

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Arsenic	ND		1.0		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Barium	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Beryllium	ND		0.10		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Cadmium	ND		0.13		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Chromium	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Cobalt	ND		0.20		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Copper	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Lead	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Molybdenum	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Nickel	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Selenium	ND		1.0		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Silver	ND		0.25		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Thallium	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Vanadium	ND		0.50		mg/Kg		05/12/15 19:52	05/13/15 20:36	1
Zinc	ND		1.5		mg/Kg		05/12/15 19:52	05/13/15 20:36	1

Lab Sample ID: LCS 720-181498/2-A
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181498

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	50.7		mg/Kg		101	80 - 120
Arsenic	50.0	51.5		mg/Kg		103	80 - 120
Barium	50.0	50.5		mg/Kg		101	80 - 120
Beryllium	50.0	52.2		mg/Kg		104	80 - 120
Cadmium	50.0	52.4		mg/Kg		105	80 - 120
Chromium	50.0	52.3		mg/Kg		105	80 - 120
Cobalt	50.0	53.3		mg/Kg		107	80 - 120
Copper	50.0	51.9		mg/Kg		104	80 - 120
Lead	50.0	52.5		mg/Kg		105	80 - 120
Molybdenum	50.0	52.2		mg/Kg		104	80 - 120
Nickel	50.0	52.0		mg/Kg		104	80 - 120
Selenium	50.0	51.6		mg/Kg		103	80 - 120
Silver	25.0	25.4		mg/Kg		101	80 - 120
Thallium	50.0	51.2		mg/Kg		102	80 - 120
Vanadium	50.0	48.2		mg/Kg		96	80 - 120
Zinc	50.0	52.6		mg/Kg		105	80 - 120

Lab Sample ID: LCSD 720-181498/3-A
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 181498

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	49.9		mg/Kg		100	80 - 120	2	20
Arsenic	50.0	50.5		mg/Kg		101	80 - 120	2	20
Barium	50.0	49.8		mg/Kg		100	80 - 120	1	20
Beryllium	50.0	51.5		mg/Kg		103	80 - 120	1	20
Cadmium	50.0	51.3		mg/Kg		103	80 - 120	2	20
Chromium	50.0	51.3		mg/Kg		103	80 - 120	2	20
Cobalt	50.0	52.2		mg/Kg		104	80 - 120	2	20
Copper	50.0	50.8		mg/Kg		102	80 - 120	2	20
Lead	50.0	51.4		mg/Kg		103	80 - 120	2	20
Molybdenum	50.0	51.3		mg/Kg		103	80 - 120	2	20
Nickel	50.0	51.0		mg/Kg		102	80 - 120	2	20
Selenium	50.0	50.8		mg/Kg		102	80 - 120	2	20
Silver	25.0	24.9		mg/Kg		100	80 - 120	2	20
Thallium	50.0	50.3		mg/Kg		101	80 - 120	2	20
Vanadium	50.0	47.4		mg/Kg		95	80 - 120	2	20
Zinc	50.0	51.5		mg/Kg		103	80 - 120	2	20

Lab Sample ID: LCSSRM 720-181498/25-A
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181498

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	40.4		mg/Kg		54	11 - 101
Arsenic	45.5	42.3		mg/Kg		93	69 - 119
Barium	579	482		mg/Kg		83	61 - 117
Beryllium	155	140		mg/Kg		91	56 - 102
Cadmium	201	184		mg/Kg		91	67 - 118
Chromium	106	95.9		mg/Kg		90	67 - 121
Cobalt	247	232		mg/Kg		94	64 - 133

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-181498/25-A
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 181498

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	130	121		mg/Kg		93	68 - 126
Lead	302	271		mg/Kg		90	62 - 113
Molybdenum	165	145		mg/Kg		88	62 - 128
Nickel	305	276		mg/Kg		90	65 - 117
Selenium	133	127		mg/Kg		95	63 - 126
Silver	33.5	29.8		mg/Kg		89	51 - 130
Thallium	191	171		mg/Kg		90	64 - 124
Vanadium	214	182		mg/Kg		85	67 - 123
Zinc	388	351		mg/Kg		90	62 - 110

Lab Sample ID: 720-64632-9 MS
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: A-15-003-2
Prep Type: Total/NA
Prep Batch: 181498

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	36.5	11.8	F1	mg/Kg		32	75 - 125
Arsenic	ND		36.5	38.0		mg/Kg		95	75 - 125
Barium	94	F1	36.5	121		mg/Kg		75	75 - 125
Beryllium	ND		36.5	38.6		mg/Kg		105	75 - 125
Cadmium	ND		36.5	36.0		mg/Kg		98	75 - 125
Chromium	46		36.5	80.9		mg/Kg		96	75 - 125
Cobalt	9.0		36.5	43.4		mg/Kg		94	75 - 125
Copper	29		36.5	61.4		mg/Kg		90	75 - 125
Lead	180		36.5	154	4	mg/Kg		-73	75 - 125
Molybdenum	ND		36.5	35.5		mg/Kg		95	75 - 125
Nickel	59	F1	36.5	86.1	F1	mg/Kg		74	75 - 125
Selenium	ND		36.5	36.5		mg/Kg		98	75 - 125
Silver	ND		18.2	18.2		mg/Kg		100	75 - 125
Thallium	ND		36.5	35.0		mg/Kg		96	75 - 125
Vanadium	22		36.5	54.7		mg/Kg		91	75 - 125
Zinc	58	F1	36.5	79.5	F1	mg/Kg		60	75 - 125

Lab Sample ID: 720-64632-9 MSD
Matrix: Solid
Analysis Batch: 181635

Client Sample ID: A-15-003-2
Prep Type: Total/NA
Prep Batch: 181498

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	33.1	13.2	F1	mg/Kg		40	75 - 125	12	20
Arsenic	ND		33.1	37.0		mg/Kg		102	75 - 125	3	20
Barium	94	F1	33.1	112	F1	mg/Kg		53	75 - 125	8	20
Beryllium	ND		33.1	37.5		mg/Kg		113	75 - 125	3	20
Cadmium	ND		33.1	35.4		mg/Kg		106	75 - 125	2	20
Chromium	46		33.1	72.1		mg/Kg		80	75 - 125	11	20
Cobalt	9.0		33.1	42.5		mg/Kg		101	75 - 125	2	20
Copper	29		33.1	60.0		mg/Kg		95	75 - 125	2	20
Lead	180		33.1	169	4	mg/Kg		-36	75 - 125	9	20
Molybdenum	ND		33.1	33.9		mg/Kg		100	75 - 125	4	20
Nickel	59	F1	33.1	75.9	F1	mg/Kg		51	75 - 125	13	20
Selenium	ND		33.1	35.2		mg/Kg		104	75 - 125	4	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-64632-9 MSD — **Client Sample ID: A-15-003-2**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181635 — **Prep Batch: 181498**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	ND		16.6	17.8		mg/Kg		107	75 - 125	2	20
Thallium	ND		33.1	34.3		mg/Kg		104	75 - 125	2	20
Vanadium	22		33.1	50.0		mg/Kg		86	75 - 125	9	20
Zinc	58	F1	33.1	78.5	F1	mg/Kg		63	75 - 125	1	20

Lab Sample ID: MB 720-181506/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Arsenic	ND		1.0		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Barium	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Beryllium	ND		0.10		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Cadmium	ND		0.13		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Chromium	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Cobalt	ND		0.20		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Copper	ND		1.5		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Lead	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Molybdenum	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Nickel	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Selenium	ND		1.0		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Silver	ND		0.25		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Thallium	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Vanadium	ND		0.50		mg/Kg		05/12/15 21:35	05/14/15 01:20	1
Zinc	ND		1.5		mg/Kg		05/12/15 21:35	05/14/15 01:20	1

Lab Sample ID: LCS 720-181506/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.8		mg/Kg		96	80 - 120
Arsenic	50.0	50.1		mg/Kg		100	80 - 120
Barium	50.0	50.8		mg/Kg		102	80 - 120
Beryllium	50.0	52.6		mg/Kg		105	80 - 120
Cadmium	50.0	50.0		mg/Kg		100	80 - 120
Chromium	50.0	51.2		mg/Kg		102	80 - 120
Cobalt	50.0	49.7		mg/Kg		99	80 - 120
Copper	50.0	50.4		mg/Kg		101	80 - 120
Lead	50.0	51.8		mg/Kg		104	80 - 120
Molybdenum	50.0	51.4		mg/Kg		103	80 - 120
Nickel	50.0	50.9		mg/Kg		102	80 - 120
Selenium	50.0	49.5		mg/Kg		99	80 - 120
Silver	25.0	25.2		mg/Kg		101	80 - 120
Thallium	50.0	51.3		mg/Kg		103	80 - 120
Vanadium	50.0	50.5		mg/Kg		101	80 - 120
Zinc	50.0	49.4		mg/Kg		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-181506/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	50.0	49.0		mg/Kg		98	80 - 120	2	20
Arsenic	50.0	50.8		mg/Kg		102	80 - 120	1	20
Barium	50.0	51.7		mg/Kg		103	80 - 120	2	20
Beryllium	50.0	53.4		mg/Kg		107	80 - 120	2	20
Cadmium	50.0	50.9		mg/Kg		102	80 - 120	2	20
Chromium	50.0	52.0		mg/Kg		104	80 - 120	2	20
Cobalt	50.0	50.8		mg/Kg		102	80 - 120	2	20
Copper	50.0	51.6		mg/Kg		103	80 - 120	2	20
Lead	50.0	52.6		mg/Kg		105	80 - 120	1	20
Molybdenum	50.0	52.5		mg/Kg		105	80 - 120	2	20
Nickel	50.0	51.7		mg/Kg		103	80 - 120	2	20
Selenium	50.0	50.3		mg/Kg		101	80 - 120	2	20
Silver	25.0	25.6		mg/Kg		102	80 - 120	2	20
Thallium	50.0	52.2		mg/Kg		104	80 - 120	2	20
Vanadium	50.0	51.1		mg/Kg		102	80 - 120	1	20
Zinc	50.0	50.3		mg/Kg		101	80 - 120	2	20

Lab Sample ID: LCSSRM 720-181506/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	44.0		mg/Kg		59	11 - 101
Arsenic	45.5	41.9		mg/Kg		92	69 - 119
Barium	579	491		mg/Kg		85	61 - 117
Beryllium	155	143		mg/Kg		92	56 - 102
Cadmium	201	175		mg/Kg		87	67 - 118
Chromium	106	93.5		mg/Kg		88	67 - 121
Cobalt	247	215		mg/Kg		87	64 - 133
Copper	130	118		mg/Kg		91	68 - 126
Lead	302	271		mg/Kg		90	62 - 113
Molybdenum	165	150		mg/Kg		91	62 - 128
Nickel	305	272		mg/Kg		89	65 - 117
Selenium	133	122		mg/Kg		92	63 - 126
Silver	33.5	29.3		mg/Kg		87	51 - 130
Thallium	191	172		mg/Kg		90	64 - 124
Vanadium	214	195		mg/Kg		91	67 - 123
Zinc	388	327		mg/Kg		84	62 - 110

Lab Sample ID: 720-64632-29 MS — **Client Sample ID: A-15-008-3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	47.6	19.7	F1	mg/Kg		41	75 - 125
Arsenic	3.9		47.6	52.0		mg/Kg		101	75 - 125
Barium	60	F1	47.6	139	F1	mg/Kg		166	75 - 125
Beryllium	0.53		47.6	53.5		mg/Kg		111	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-64632-29 MS — **Client Sample ID: A-15-008-3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	ND		47.6	49.0		mg/Kg		103	75 - 125
Chromium	13	F2 F1	47.6	133	F1	mg/Kg		251	75 - 125
Cobalt	7.0		47.6	57.0		mg/Kg		105	75 - 125
Copper	16		47.6	74.3		mg/Kg		122	75 - 125
Lead	49		47.6	87.6		mg/Kg		81	75 - 125
Molybdenum	ND	F2 F1	47.6	61.3	F1	mg/Kg		127	75 - 125
Nickel	19		47.6	77.4		mg/Kg		124	75 - 125
Selenium	ND		47.6	48.1		mg/Kg		101	75 - 125
Silver	ND		23.8	25.3		mg/Kg		106	75 - 125
Thallium	ND		47.6	48.4		mg/Kg		102	75 - 125
Vanadium	16		47.6	65.4		mg/Kg		103	75 - 125
Zinc	45		47.6	86.4		mg/Kg		88	75 - 125

Lab Sample ID: 720-64632-29 MSD — **Client Sample ID: A-15-008-3**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181639 — **Prep Batch: 181506**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	49.0	18.4	F1	mg/Kg		37	75 - 125	7	20
Arsenic	3.9		49.0	50.5		mg/Kg		95	75 - 125	3	20
Barium	60	F1	49.0	130	F1	mg/Kg		143	75 - 125	7	20
Beryllium	0.53		49.0	51.9		mg/Kg		105	75 - 125	3	20
Cadmium	ND		49.0	47.5		mg/Kg		97	75 - 125	3	20
Chromium	13	F2 F1	49.0	72.0	F2	mg/Kg		120	75 - 125	59	20
Cobalt	7.0		49.0	55.1		mg/Kg		98	75 - 125	3	20
Copper	16		49.0	68.1		mg/Kg		106	75 - 125	9	20
Lead	49		49.0	104		mg/Kg		112	75 - 125	17	20
Molybdenum	ND	F2 F1	49.0	47.6	F2	mg/Kg		96	75 - 125	25	20
Nickel	19		49.0	71.4		mg/Kg		108	75 - 125	8	20
Selenium	ND		49.0	46.1		mg/Kg		94	75 - 125	4	20
Silver	ND		24.5	24.0		mg/Kg		98	75 - 125	5	20
Thallium	ND		49.0	47.0		mg/Kg		96	75 - 125	3	20
Vanadium	16		49.0	64.9		mg/Kg		99	75 - 125	1	20
Zinc	45		49.0	90.8		mg/Kg		94	75 - 125	5	20

Lab Sample ID: MB 720-181576/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181666 — **Prep Batch: 181576**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		05/13/15 14:13	05/13/15 22:45	1

Lab Sample ID: LCS 720-181576/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181666 — **Prep Batch: 181576**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead			50.0	49.6		mg/Kg		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 720-181576/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181666 — **Prep Batch: 181576**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	50.0	49.6		mg/Kg		99	80 - 120	0	20

Lab Sample ID: LCSSRM 720-181576/25-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181666 — **Prep Batch: 181576**

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	302	269		mg/Kg		89	62 - 113

Lab Sample ID: MB 720-182721/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 182798 — **Prep Batch: 182721**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		05/30/15 14:57	06/01/15 19:27	1

Lab Sample ID: LCS 720-182721/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 182798 — **Prep Batch: 182721**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.02		mg/L		102	80 - 120

Lab Sample ID: LCSD 720-182721/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 182798 — **Prep Batch: 182721**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	1.02		mg/L		102	80 - 120	0	20

Lab Sample ID: MB 720-183038/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total Recoverable**
Analysis Batch: 183059 — **Prep Batch: 183038**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		06/04/15 13:54	06/04/15 14:35	1

Lab Sample ID: LCS 720-183038/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total Recoverable**
Analysis Batch: 183059 — **Prep Batch: 183038**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	1.01		mg/L		101	80 - 120

Lab Sample ID: LCSD 720-183038/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total Recoverable**
Analysis Batch: 183059 — **Prep Batch: 183038**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	1.02		mg/L		102	80 - 120	1	20

QC Sample Results

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Lab Sample ID: MB 720-184005/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total Recoverable**
Analysis Batch: 184043 — **Prep Batch: 184005**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.0050		mg/L		06/22/15 10:10	06/22/15 17:36	1

Lab Sample ID: LCS 720-184005/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total Recoverable**
Analysis Batch: 184043 — **Prep Batch: 184005**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	1.00	0.982		mg/L		98	80 - 120

Lab Sample ID: LCSD 720-184005/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total Recoverable**
Analysis Batch: 184043 — **Prep Batch: 184005**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	1.00	0.987		mg/L		99	80 - 120	0	20

Lab Sample ID: LB 720-182665/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: TCLP**
Analysis Batch: 182798 — **Prep Batch: 182721**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		05/30/15 14:57	06/01/15 19:32	1

Lab Sample ID: LB4 720-182839/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: STLC Citrate**
Analysis Batch: 183059 — **Prep Batch: 183038**

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		06/04/15 13:54	06/04/15 14:40	1

Lab Sample ID: LB4 720-183946/1-B — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: STLC Citrate**
Analysis Batch: 184043 — **Prep Batch: 184005**

Analyte	LB4 Result	LB4 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.050		mg/L		06/22/15 10:10	06/22/15 17:41	1

Lab Sample ID: 720-64632-11 MS — **Client Sample ID: A-15-003-6**
Matrix: Solid — **Prep Type: STLC Citrate**
Analysis Batch: 184043 — **Prep Batch: 184005**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	6.5	H	10.0	16.1		mg/L		96	75 - 125

Lab Sample ID: 720-64632-11 MSD — **Client Sample ID: A-15-003-6**
Matrix: Solid — **Prep Type: STLC Citrate**
Analysis Batch: 184043 — **Prep Batch: 184005**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	6.5	H	10.0	15.8		mg/L		93	75 - 125	2	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-181473/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181509 — **Prep Batch: 181473**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		05/12/15 15:43	05/12/15 20:40	1

Lab Sample ID: LCS 720-181473/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181509 — **Prep Batch: 181473**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.883		mg/Kg		106	80 - 120		

Lab Sample ID: LCSD 720-181473/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181509 — **Prep Batch: 181473**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.900		mg/Kg		108	80 - 120	2	20

Lab Sample ID: MB 720-181607/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181702 — **Prep Batch: 181607**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		05/13/15 18:57	05/14/15 15:04	1

Lab Sample ID: LCS 720-181607/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181702 — **Prep Batch: 181607**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.833	0.766		mg/Kg		92	80 - 120		

Lab Sample ID: LCSD 720-181607/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 181702 — **Prep Batch: 181607**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.833	0.759		mg/Kg		91	80 - 120	1	20

QC Association Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

GC/MS VOA

Analysis Batch: 181271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	8260B/CA_LUFT MS	181283
720-64632-3	A-15-001-3	Total/NA	Solid	8260B/CA_LUFT MS	181283
720-64632-4	A-15-001-6	Total/NA	Solid	8260B/CA_LUFT MS	181283
720-64632-5	A-15-002-1.5	Total/NA	Solid	8260B/CA_LUFT MS	181283
720-64632-13	A-15-004-2	Total/NA	Solid	8260B/CA_LUFT MS	181283
720-64632-15	A-15-005-1.5	Total/NA	Solid	8260B/CA_LUFT MS	181283
LCS 720-181271/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-181271/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181271/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181271/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-181271/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 181283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	5035	
720-64632-3	A-15-001-3	Total/NA	Solid	5035	
720-64632-4	A-15-001-6	Total/NA	Solid	5035	
720-64632-5	A-15-002-1.5	Total/NA	Solid	5035	
720-64632-13	A-15-004-2	Total/NA	Solid	5035	
720-64632-15	A-15-005-1.5	Total/NA	Solid	5035	

Analysis Batch: 181341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-6	A-15-002-2	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-7	A-15-002-3	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-9	A-15-003-2	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-20	A-15-006-1.5	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-21	A-15-006-2	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-22	A-15-006-3	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-25	A-15-007-3	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-27	A-15-008-1	Total/NA	Solid	8260B/CA_LUFT MS	181365
720-64632-31	A-15-009-2	Total/NA	Solid	8260B/CA_LUFT MS	181365
LCS 720-181341/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-181341/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	

GC/MS VOA (Continued)

Analysis Batch: 181341 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-181341/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181341/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-181341/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 181365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-6	A-15-002-2	Total/NA	Solid	5035	
720-64632-7	A-15-002-3	Total/NA	Solid	5035	
720-64632-9	A-15-003-2	Total/NA	Solid	5035	
720-64632-20	A-15-006-1.5	Total/NA	Solid	5035	
720-64632-21	A-15-006-2	Total/NA	Solid	5035	
720-64632-22	A-15-006-3	Total/NA	Solid	5035	
720-64632-25	A-15-007-3	Total/NA	Solid	5035	
720-64632-27	A-15-008-1	Total/NA	Solid	5035	
720-64632-31	A-15-009-2	Total/NA	Solid	5035	

Analysis Batch: 181390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-33	A-15-010-1	Total/NA	Solid	8260B/CA_LUFT MS	181413
720-64632-35	A-15-010-3	Total/NA	Solid	8260B/CA_LUFT MS	181413
LCS 720-181390/6	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-181390/8	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181390/7	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181390/9	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-181390/5	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 181413

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-33	A-15-010-1	Total/NA	Solid	5035	
720-64632-35	A-15-010-3	Total/NA	Solid	5035	

Analysis Batch: 181428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-18	A-15-005-6	Total/NA	Solid	8260B/CA_LUFT MS	181449
720-64632-30	A-15-009-1	Total/NA	Solid	8260B/CA_LUFT MS	181449
720-64632-32	A-15-009-3	Total/NA	Solid	8260B/CA_LUFT MS	181449
720-64632-34	A-15-010-2	Total/NA	Solid	8260B/CA_LUFT MS	181449
720-64632-37	A-15-011-2	Total/NA	Solid	8260B/CA_LUFT MS	181449
720-64632-38	A-15-011-3	Total/NA	Solid	8260B/CA_LUFT MS	181449

GC/MS VOA (Continued)

Analysis Batch: 181428 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-181428/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-181428/7	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181428/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181428/8	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-181428/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 181449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-18	A-15-005-6	Total/NA	Solid	5035	
720-64632-30	A-15-009-1	Total/NA	Solid	5035	
720-64632-32	A-15-009-3	Total/NA	Solid	5035	
720-64632-34	A-15-010-2	Total/NA	Solid	5035	
720-64632-37	A-15-011-2	Total/NA	Solid	5035	
720-64632-38	A-15-011-3	Total/NA	Solid	5035	

Analysis Batch: 181490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-19	A-15-005-6GW	Total/NA	Water	8260B	
720-64632-39	EB-1	Total/NA	Water	8260B	
720-64632-40	EB-2	Total/NA	Water	8260B	
LCS 720-181490/5	Lab Control Sample	Total/NA	Water	8260B	
LCS 720-181490/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 720-181490/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 720-181490/8	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 720-181490/4	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 181623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-11	A-15-003-6	Total/NA	Solid	8260B/CA_LUFT MS	181648
LCS 720-181623/15	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCS 720-181623/5	Lab Control Sample	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181623/16	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
LCSD 720-181623/6	Lab Control Sample Dup	Total/NA	Solid	8260B/CA_LUFT MS	
MB 720-181623/4	Method Blank	Total/NA	Solid	8260B/CA_LUFT MS	

Prep Batch: 181648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-11	A-15-003-6	Total/NA	Solid	5035	

QC Association Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

GC Semi VOA

Analysis Batch: 181272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 720-181296/2-A	Lab Control Sample	Total/NA	Solid	8015B	181296
MB 720-181296/1-A	Method Blank	Total/NA	Solid	8015B	181296

Prep Batch: 181296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	3546	
720-64632-3	A-15-001-3	Total/NA	Solid	3546	
720-64632-4	A-15-001-6	Total/NA	Solid	3546	
720-64632-5	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-6	A-15-002-2	Total/NA	Solid	3546	
720-64632-7	A-15-002-3	Total/NA	Solid	3546	
720-64632-9	A-15-003-2	Total/NA	Solid	3546	
720-64632-11	A-15-003-6	Total/NA	Solid	3546	
720-64632-13	A-15-004-2	Total/NA	Solid	3546	
720-64632-15	A-15-005-1.5	Total/NA	Solid	3546	
720-64632-18	A-15-005-6	Total/NA	Solid	3546	
720-64632-20	A-15-006-1.5	Total/NA	Solid	3546	
LCS 720-181296/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-181296/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 181348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	8015B	181296
720-64632-4	A-15-001-6	Total/NA	Solid	8015B	181296
720-64632-5	A-15-002-1.5	Total/NA	Solid	8015B	181296
720-64632-6	A-15-002-2	Total/NA	Solid	8015B	181296
720-64632-7	A-15-002-3	Total/NA	Solid	8015B	181296
720-64632-18	A-15-005-6	Total/NA	Solid	8015B	181296
720-64632-20	A-15-006-1.5	Total/NA	Solid	8015B	181296
LCS 720-181383/2-A	Lab Control Sample	Total/NA	Water	8015B	181383
LCSD 720-181383/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	181383
MB 720-181383/1-A	Method Blank	Total/NA	Water	8015B	181383

Prep Batch: 181383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-19	A-15-005-6GW	Total/NA	Water	3510C	
LCS 720-181383/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-181383/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-181383/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 181423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-19	A-15-005-6GW	Total/NA	Water	8082	181442
LCS 720-181442/2-A	Lab Control Sample	Total/NA	Water	8082	181442
LCSD 720-181442/3-A	Lab Control Sample Dup	Total/NA	Water	8082	181442
MB 720-181442/1-A	Method Blank	Total/NA	Water	8082	181442

Prep Batch: 181441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-19	A-15-005-6GW	Total/NA	Water	3510C	
LCS 720-181441/2-A	Lab Control Sample	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 181441 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-181441/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-181441/1-A	Method Blank	Total/NA	Water	3510C	

Prep Batch: 181442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-19	A-15-005-6GW	Total/NA	Water	3510C	
LCS 720-181442/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 720-181442/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 720-181442/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 181444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-9	A-15-003-2	Total/NA	Solid	8015B	181296
720-64632-11	A-15-003-6	Total/NA	Solid	8015B	181296
720-64632-13	A-15-004-2	Total/NA	Solid	8015B	181296
720-64632-19	A-15-005-6GW	Total/NA	Water	8015B	181383
720-64632-21	A-15-006-2	Total/NA	Solid	8015B	181458
720-64632-22	A-15-006-3	Total/NA	Solid	8015B	181458
720-64632-30	A-15-009-1	Total/NA	Solid	8015B	181458
720-64632-31	A-15-009-2	Total/NA	Solid	8015B	181458

Analysis Batch: 181445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-3	A-15-001-3	Total/NA	Solid	8015B	181296
720-64632-15	A-15-005-1.5	Total/NA	Solid	8015B	181296
720-64632-32	A-15-009-3	Total/NA	Solid	8015B	181458
720-64632-34	A-15-010-2	Total/NA	Solid	8015B	181458
720-64632-35	A-15-010-3	Total/NA	Solid	8015B	181458
720-64632-37	A-15-011-2	Total/NA	Solid	8015B	181458
720-64632-38	A-15-011-3	Total/NA	Solid	8015B	181458
LCS 720-181458/2-A	Lab Control Sample	Total/NA	Solid	8015B	181458
MB 720-181458/1-A	Method Blank	Total/NA	Solid	8015B	181458

Prep Batch: 181458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-21	A-15-006-2	Total/NA	Solid	3546	
720-64632-22	A-15-006-3	Total/NA	Solid	3546	
720-64632-25	A-15-007-3	Total/NA	Solid	3546	
720-64632-27	A-15-008-1	Total/NA	Solid	3546	
720-64632-30	A-15-009-1	Total/NA	Solid	3546	
720-64632-31	A-15-009-2	Total/NA	Solid	3546	
720-64632-32	A-15-009-3	Total/NA	Solid	3546	
720-64632-33	A-15-010-1	Total/NA	Solid	3546	
720-64632-34	A-15-010-2	Total/NA	Solid	3546	
720-64632-35	A-15-010-3	Total/NA	Solid	3546	
720-64632-37	A-15-011-2	Total/NA	Solid	3546	
720-64632-38	A-15-011-3	Total/NA	Solid	3546	
LCS 720-181458/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-181458/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 181484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	3546	
720-64632-3	A-15-001-3	Total/NA	Solid	3546	
720-64632-4	A-15-001-6	Total/NA	Solid	3546	
720-64632-5	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-5 MS	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-5 MSD	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-6	A-15-002-2	Total/NA	Solid	3546	
720-64632-7	A-15-002-3	Total/NA	Solid	3546	
720-64632-9	A-15-003-2	Total/NA	Solid	3546	
720-64632-11	A-15-003-6	Total/NA	Solid	3546	
720-64632-13	A-15-004-2	Total/NA	Solid	3546	
720-64632-15	A-15-005-1.5	Total/NA	Solid	3546	
720-64632-18	A-15-005-6	Total/NA	Solid	3546	
720-64632-20	A-15-006-1.5	Total/NA	Solid	3546	
720-64632-21	A-15-006-2	Total/NA	Solid	3546	
720-64632-22	A-15-006-3	Total/NA	Solid	3546	
720-64632-25	A-15-007-3	Total/NA	Solid	3546	
720-64632-27	A-15-008-1	Total/NA	Solid	3546	
720-64632-30	A-15-009-1	Total/NA	Solid	3546	
720-64632-31	A-15-009-2	Total/NA	Solid	3546	
720-64632-32	A-15-009-3	Total/NA	Solid	3546	
720-64632-33	A-15-010-1	Total/NA	Solid	3546	
LCS 720-181484/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-181484/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 181486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	3546	
720-64632-3	A-15-001-3	Total/NA	Solid	3546	
720-64632-4	A-15-001-6	Total/NA	Solid	3546	
720-64632-5	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-5 MS	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-5 MSD	A-15-002-1.5	Total/NA	Solid	3546	
720-64632-6	A-15-002-2	Total/NA	Solid	3546	
720-64632-7	A-15-002-3	Total/NA	Solid	3546	
720-64632-9	A-15-003-2	Total/NA	Solid	3546	
720-64632-11	A-15-003-6	Total/NA	Solid	3546	
720-64632-13	A-15-004-2	Total/NA	Solid	3546	
720-64632-15	A-15-005-1.5	Total/NA	Solid	3546	
720-64632-18	A-15-005-6	Total/NA	Solid	3546	
720-64632-20	A-15-006-1.5	Total/NA	Solid	3546	
720-64632-21	A-15-006-2	Total/NA	Solid	3546	
720-64632-22	A-15-006-3	Total/NA	Solid	3546	
720-64632-25	A-15-007-3	Total/NA	Solid	3546	
720-64632-27	A-15-008-1	Total/NA	Solid	3546	
720-64632-30	A-15-009-1	Total/NA	Solid	3546	
720-64632-31	A-15-009-2	Total/NA	Solid	3546	
720-64632-32	A-15-009-3	Total/NA	Solid	3546	
720-64632-33	A-15-010-1	Total/NA	Solid	3546	
LCS 720-181486/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-181486/1-A	Method Blank	Total/NA	Solid	3546	

QC Association Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Analysis Batch: 181514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-19	A-15-005-6GW	Total/NA	Water	8081A	181441
LCS 720-181441/2-A	Lab Control Sample	Total/NA	Water	8081A	181441
LCSD 720-181441/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	181441
MB 720-181441/1-A	Method Blank	Total/NA	Water	8081A	181441

Analysis Batch: 181519

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-5	A-15-002-1.5	Total/NA	Solid	8082	181484
720-64632-5 MS	A-15-002-1.5	Total/NA	Solid	8082	181484
720-64632-5 MSD	A-15-002-1.5	Total/NA	Solid	8082	181484
720-64632-6	A-15-002-2	Total/NA	Solid	8082	181484
720-64632-7	A-15-002-3	Total/NA	Solid	8082	181484
720-64632-9	A-15-003-2	Total/NA	Solid	8082	181484
720-64632-11	A-15-003-6	Total/NA	Solid	8082	181484
720-64632-13	A-15-004-2	Total/NA	Solid	8082	181484
720-64632-18	A-15-005-6	Total/NA	Solid	8082	181484
720-64632-20	A-15-006-1.5	Total/NA	Solid	8082	181484
720-64632-21	A-15-006-2	Total/NA	Solid	8082	181484
720-64632-22	A-15-006-3	Total/NA	Solid	8082	181484
720-64632-25	A-15-007-3	Total/NA	Solid	8082	181484
720-64632-27	A-15-008-1	Total/NA	Solid	8082	181484
720-64632-37	A-15-011-2	Total/NA	Solid	8082	181540
720-64632-38	A-15-011-3	Total/NA	Solid	8082	181540
LCS 720-181484/2-A	Lab Control Sample	Total/NA	Solid	8082	181484
LCS 720-181540/2-A	Lab Control Sample	Total/NA	Solid	8082	181540
MB 720-181484/1-A	Method Blank	Total/NA	Solid	8082	181484
MB 720-181540/1-A	Method Blank	Total/NA	Solid	8082	181540

Analysis Batch: 181520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	8082	181484
720-64632-3	A-15-001-3	Total/NA	Solid	8082	181484
720-64632-4	A-15-001-6	Total/NA	Solid	8082	181484
720-64632-5 MS	A-15-002-1.5	Total/NA	Solid	8082	181484
720-64632-5 MSD	A-15-002-1.5	Total/NA	Solid	8082	181484
720-64632-15	A-15-005-1.5	Total/NA	Solid	8082	181484
720-64632-30	A-15-009-1	Total/NA	Solid	8082	181484
720-64632-31	A-15-009-2	Total/NA	Solid	8082	181484
720-64632-32	A-15-009-3	Total/NA	Solid	8082	181484
720-64632-33	A-15-010-1	Total/NA	Solid	8082	181484
720-64632-34	A-15-010-2	Total/NA	Solid	8082	181540
720-64632-35	A-15-010-3	Total/NA	Solid	8082	181540
LCS 720-181484/2-A	Lab Control Sample	Total/NA	Solid	8082	181484
LCS 720-181540/2-A	Lab Control Sample	Total/NA	Solid	8082	181540
MB 720-181484/1-A	Method Blank	Total/NA	Solid	8082	181484
MB 720-181540/1-A	Method Blank	Total/NA	Solid	8082	181540

Analysis Batch: 181521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-25	A-15-007-3	Total/NA	Solid	8015B	181458
720-64632-27	A-15-008-1	Total/NA	Solid	8015B	181458
720-64632-33	A-15-010-1	Total/NA	Solid	8015B	181458

GC Semi VOA (Continued)

Prep Batch: 181539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-34	A-15-010-2	Total/NA	Solid	3546	
720-64632-35	A-15-010-3	Total/NA	Solid	3546	
720-64632-37	A-15-011-2	Total/NA	Solid	3546	
720-64632-38	A-15-011-3	Total/NA	Solid	3546	
LCS 720-181539/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-181539/1-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 181540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-34	A-15-010-2	Total/NA	Solid	3546	
720-64632-35	A-15-010-3	Total/NA	Solid	3546	
720-64632-37	A-15-011-2	Total/NA	Solid	3546	
720-64632-38	A-15-011-3	Total/NA	Solid	3546	
LCS 720-181540/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 720-181540/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 181620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	8081A	181486
720-64632-3	A-15-001-3	Total/NA	Solid	8081A	181486
720-64632-4	A-15-001-6	Total/NA	Solid	8081A	181486
720-64632-5	A-15-002-1.5	Total/NA	Solid	8081A	181486
720-64632-5 MS	A-15-002-1.5	Total/NA	Solid	8081A	181486
720-64632-5 MSD	A-15-002-1.5	Total/NA	Solid	8081A	181486
720-64632-6	A-15-002-2	Total/NA	Solid	8081A	181486
720-64632-7	A-15-002-3	Total/NA	Solid	8081A	181486
720-64632-9	A-15-003-2	Total/NA	Solid	8081A	181486
720-64632-11	A-15-003-6	Total/NA	Solid	8081A	181486
720-64632-13	A-15-004-2	Total/NA	Solid	8081A	181486
720-64632-15	A-15-005-1.5	Total/NA	Solid	8081A	181486
720-64632-18	A-15-005-6	Total/NA	Solid	8081A	181486
720-64632-20	A-15-006-1.5	Total/NA	Solid	8081A	181486
720-64632-21	A-15-006-2	Total/NA	Solid	8081A	181486
720-64632-22	A-15-006-3	Total/NA	Solid	8081A	181486
720-64632-25	A-15-007-3	Total/NA	Solid	8081A	181486
720-64632-27	A-15-008-1	Total/NA	Solid	8081A	181486
720-64632-30	A-15-009-1	Total/NA	Solid	8081A	181486
720-64632-31	A-15-009-2	Total/NA	Solid	8081A	181486
720-64632-32	A-15-009-3	Total/NA	Solid	8081A	181486
720-64632-33	A-15-010-1	Total/NA	Solid	8081A	181486
720-64632-34	A-15-010-2	Total/NA	Solid	8081A	181539
720-64632-35	A-15-010-3	Total/NA	Solid	8081A	181539
720-64632-37	A-15-011-2	Total/NA	Solid	8081A	181539
720-64632-38	A-15-011-3	Total/NA	Solid	8081A	181539
LCS 720-181486/2-A	Lab Control Sample	Total/NA	Solid	8081A	181486
LCS 720-181539/2-A	Lab Control Sample	Total/NA	Solid	8081A	181539
MB 720-181486/1-A	Method Blank	Total/NA	Solid	8081A	181486
MB 720-181539/1-A	Method Blank	Total/NA	Solid	8081A	181539

QC Association Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Metals

Prep Batch: 181473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-4	A-15-001-6	Total/NA	Solid	7471A	
720-64632-5	A-15-002-1.5	Total/NA	Solid	7471A	
720-64632-11	A-15-003-6	Total/NA	Solid	7471A	
720-64632-13	A-15-004-2	Total/NA	Solid	7471A	
720-64632-14	A-15-004-3	Total/NA	Solid	7471A	
720-64632-18	A-15-005-6	Total/NA	Solid	7471A	
720-64632-22	A-15-006-3	Total/NA	Solid	7471A	
720-64632-26	A-15-007-6	Total/NA	Solid	7471A	
720-64632-27	A-15-008-1	Total/NA	Solid	7471A	
720-64632-28	A-15-008-2	Total/NA	Solid	7471A	
LCS 720-181473/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-181473/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-181473/1-A	Method Blank	Total/NA	Solid	7471A	

Prep Batch: 181494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	3050B	
720-64632-2	A-15-001-2	Total/NA	Solid	3050B	
720-64632-3	A-15-001-3	Total/NA	Solid	3050B	
720-64632-4	A-15-001-6	Total/NA	Solid	3050B	
720-64632-5	A-15-002-1.5	Total/NA	Solid	3050B	
720-64632-6	A-15-002-2	Total/NA	Solid	3050B	
720-64632-7	A-15-002-3	Total/NA	Solid	3050B	
720-64632-8	A-15-003-1.5	Total/NA	Solid	3050B	
LCS 720-181494/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-181494/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-181494/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-181494/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 181498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-9	A-15-003-2	Total/NA	Solid	3050B	
720-64632-9 MS	A-15-003-2	Total/NA	Solid	3050B	
720-64632-9 MSD	A-15-003-2	Total/NA	Solid	3050B	
720-64632-10	A-15-003-3	Total/NA	Solid	3050B	
720-64632-11	A-15-003-6	Total/NA	Solid	3050B	
720-64632-12	A-15-004-1	Total/NA	Solid	3050B	
720-64632-13	A-15-004-2	Total/NA	Solid	3050B	
720-64632-14	A-15-004-3	Total/NA	Solid	3050B	
720-64632-15	A-15-005-1.5	Total/NA	Solid	3050B	
720-64632-16	A-15-005-2	Total/NA	Solid	3050B	
720-64632-17	A-15-005-3	Total/NA	Solid	3050B	
720-64632-18	A-15-005-6	Total/NA	Solid	3050B	
720-64632-20	A-15-006-1.5	Total/NA	Solid	3050B	
720-64632-21	A-15-006-2	Total/NA	Solid	3050B	
720-64632-22	A-15-006-3	Total/NA	Solid	3050B	
720-64632-23	A-15-007-1	Total/NA	Solid	3050B	
720-64632-24	A-15-007-2	Total/NA	Solid	3050B	
720-64632-25	A-15-007-3	Total/NA	Solid	3050B	
720-64632-26	A-15-007-6	Total/NA	Solid	3050B	
720-64632-27	A-15-008-1	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 181498 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-28	A-15-008-2	Total/NA	Solid	3050B	
LCS 720-181498/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-181498/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-181498/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-181498/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 181506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-29	A-15-008-3	Total/NA	Solid	3050B	
720-64632-29 MS	A-15-008-3	Total/NA	Solid	3050B	
720-64632-29 MSD	A-15-008-3	Total/NA	Solid	3050B	
720-64632-30	A-15-009-1	Total/NA	Solid	3050B	
720-64632-31	A-15-009-2	Total/NA	Solid	3050B	
720-64632-32	A-15-009-3	Total/NA	Solid	3050B	
720-64632-33	A-15-010-1	Total/NA	Solid	3050B	
720-64632-34	A-15-010-2	Total/NA	Solid	3050B	
720-64632-35	A-15-010-3	Total/NA	Solid	3050B	
720-64632-37	A-15-011-2	Total/NA	Solid	3050B	
720-64632-38	A-15-011-3	Total/NA	Solid	3050B	
LCS 720-181506/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-181506/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-181506/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-181506/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 181509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-4	A-15-001-6	Total/NA	Solid	7471A	181473
720-64632-5	A-15-002-1.5	Total/NA	Solid	7471A	181473
720-64632-11	A-15-003-6	Total/NA	Solid	7471A	181473
720-64632-13	A-15-004-2	Total/NA	Solid	7471A	181473
720-64632-14	A-15-004-3	Total/NA	Solid	7471A	181473
720-64632-18	A-15-005-6	Total/NA	Solid	7471A	181473
720-64632-22	A-15-006-3	Total/NA	Solid	7471A	181473
720-64632-26	A-15-007-6	Total/NA	Solid	7471A	181473
720-64632-27	A-15-008-1	Total/NA	Solid	7471A	181473
720-64632-28	A-15-008-2	Total/NA	Solid	7471A	181473
LCS 720-181473/2-A	Lab Control Sample	Total/NA	Solid	7471A	181473
LCSD 720-181473/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	181473
MB 720-181473/1-A	Method Blank	Total/NA	Solid	7471A	181473

Analysis Batch: 181564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-1	A-15-001-1.5	Total/NA	Solid	6010B	181494
720-64632-2	A-15-001-2	Total/NA	Solid	6010B	181494
720-64632-3	A-15-001-3	Total/NA	Solid	6010B	181494
720-64632-4	A-15-001-6	Total/NA	Solid	6010B	181494
720-64632-5	A-15-002-1.5	Total/NA	Solid	6010B	181494
720-64632-6	A-15-002-2	Total/NA	Solid	6010B	181494
720-64632-7	A-15-002-3	Total/NA	Solid	6010B	181494
720-64632-8	A-15-003-1.5	Total/NA	Solid	6010B	181494
LCS 720-181494/2-A	Lab Control Sample	Total/NA	Solid	6010B	181494

Metals (Continued)

Analysis Batch: 181564 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 720-181494/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	181494
LCSSRM 720-181494/25-A	Lab Control Sample	Total/NA	Solid	6010B	181494
MB 720-181494/1-A	Method Blank	Total/NA	Solid	6010B	181494

Prep Batch: 181576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-36	A-15-011-1.5	Total/NA	Solid	3050B	
LCS 720-181576/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 720-181576/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
LCSSRM 720-181576/25-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 720-181576/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 181607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-31	A-15-009-2	Total/NA	Solid	7471A	
720-64632-32	A-15-009-3	Total/NA	Solid	7471A	
720-64632-33	A-15-010-1	Total/NA	Solid	7471A	
720-64632-35	A-15-010-3	Total/NA	Solid	7471A	
LCS 720-181607/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 720-181607/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
MB 720-181607/1-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 181635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-9	A-15-003-2	Total/NA	Solid	6010B	181498
720-64632-9 MS	A-15-003-2	Total/NA	Solid	6010B	181498
720-64632-9 MSD	A-15-003-2	Total/NA	Solid	6010B	181498
720-64632-10	A-15-003-3	Total/NA	Solid	6010B	181498
720-64632-11	A-15-003-6	Total/NA	Solid	6010B	181498
720-64632-12	A-15-004-1	Total/NA	Solid	6010B	181498
720-64632-13	A-15-004-2	Total/NA	Solid	6010B	181498
720-64632-14	A-15-004-3	Total/NA	Solid	6010B	181498
720-64632-15	A-15-005-1.5	Total/NA	Solid	6010B	181498
720-64632-16	A-15-005-2	Total/NA	Solid	6010B	181498
720-64632-17	A-15-005-3	Total/NA	Solid	6010B	181498
720-64632-18	A-15-005-6	Total/NA	Solid	6010B	181498
720-64632-20	A-15-006-1.5	Total/NA	Solid	6010B	181498
720-64632-21	A-15-006-2	Total/NA	Solid	6010B	181498
720-64632-22	A-15-006-3	Total/NA	Solid	6010B	181498
720-64632-23	A-15-007-1	Total/NA	Solid	6010B	181498
720-64632-24	A-15-007-2	Total/NA	Solid	6010B	181498
720-64632-25	A-15-007-3	Total/NA	Solid	6010B	181498
720-64632-26	A-15-007-6	Total/NA	Solid	6010B	181498
720-64632-27	A-15-008-1	Total/NA	Solid	6010B	181498
720-64632-28	A-15-008-2	Total/NA	Solid	6010B	181498
LCS 720-181498/2-A	Lab Control Sample	Total/NA	Solid	6010B	181498
LCSD 720-181498/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	181498
LCSSRM 720-181498/25-A	Lab Control Sample	Total/NA	Solid	6010B	181498
MB 720-181498/1-A	Method Blank	Total/NA	Solid	6010B	181498

Metals (Continued)

Analysis Batch: 181639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-29	A-15-008-3	Total/NA	Solid	6010B	181506
720-64632-29 MS	A-15-008-3	Total/NA	Solid	6010B	181506
720-64632-29 MSD	A-15-008-3	Total/NA	Solid	6010B	181506
720-64632-31	A-15-009-2	Total/NA	Solid	6010B	181506
720-64632-32	A-15-009-3	Total/NA	Solid	6010B	181506
720-64632-33	A-15-010-1	Total/NA	Solid	6010B	181506
720-64632-34	A-15-010-2	Total/NA	Solid	6010B	181506
720-64632-35	A-15-010-3	Total/NA	Solid	6010B	181506
720-64632-37	A-15-011-2	Total/NA	Solid	6010B	181506
720-64632-38	A-15-011-3	Total/NA	Solid	6010B	181506
LCS 720-181506/2-A	Lab Control Sample	Total/NA	Solid	6010B	181506
LCSD 720-181506/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	181506
LCSSRM 720-181506/25-A	Lab Control Sample	Total/NA	Solid	6010B	181506
MB 720-181506/1-A	Method Blank	Total/NA	Solid	6010B	181506

Analysis Batch: 181666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-36	A-15-011-1.5	Total/NA	Solid	6010B	181576
LCS 720-181576/2-A	Lab Control Sample	Total/NA	Solid	6010B	181576
LCSD 720-181576/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	181576
LCSSRM 720-181576/25-A	Lab Control Sample	Total/NA	Solid	6010B	181576
MB 720-181576/1-A	Method Blank	Total/NA	Solid	6010B	181576

Analysis Batch: 181696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-11	A-15-003-6	Total/NA	Solid	6010B	181498
720-64632-14	A-15-004-3	Total/NA	Solid	6010B	181498
720-64632-18	A-15-005-6	Total/NA	Solid	6010B	181498
720-64632-22	A-15-006-3	Total/NA	Solid	6010B	181498
720-64632-26	A-15-007-6	Total/NA	Solid	6010B	181498
720-64632-27	A-15-008-1	Total/NA	Solid	6010B	181498

Analysis Batch: 181698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-30	A-15-009-1	Total/NA	Solid	6010B	181506
720-64632-31	A-15-009-2	Total/NA	Solid	6010B	181506
720-64632-32	A-15-009-3	Total/NA	Solid	6010B	181506
720-64632-33	A-15-010-1	Total/NA	Solid	6010B	181506

Analysis Batch: 181702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-31	A-15-009-2	Total/NA	Solid	7471A	181607
720-64632-32	A-15-009-3	Total/NA	Solid	7471A	181607
720-64632-33	A-15-010-1	Total/NA	Solid	7471A	181607
720-64632-35	A-15-010-3	Total/NA	Solid	7471A	181607
LCS 720-181607/2-A	Lab Control Sample	Total/NA	Solid	7471A	181607
LCSD 720-181607/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	181607
MB 720-181607/1-A	Method Blank	Total/NA	Solid	7471A	181607

Metals (Continued)

Analysis Batch: 181709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-33	A-15-010-1	Total/NA	Solid	6010B	181506

Leach Batch: 182665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-8	A-15-003-1.5	TCLP	Solid	1311	
720-64632-9	A-15-003-2	TCLP	Solid	1311	
720-64632-30	A-15-009-1	TCLP	Solid	1311	
LB 720-182665/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 182721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-8	A-15-003-1.5	TCLP	Solid	3010A	182665
720-64632-9	A-15-003-2	TCLP	Solid	3010A	182665
720-64632-30	A-15-009-1	TCLP	Solid	3010A	182665
LB 720-182665/1-B	Method Blank	TCLP	Solid	3010A	182665
LCS 720-182721/2-A	Lab Control Sample	Total/NA	Solid	3010A	
LCSD 720-182721/3-A	Lab Control Sample Dup	Total/NA	Solid	3010A	
MB 720-182721/1-A	Method Blank	Total/NA	Solid	3010A	

Analysis Batch: 182798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-8	A-15-003-1.5	TCLP	Solid	6010B	182721
720-64632-9	A-15-003-2	TCLP	Solid	6010B	182721
720-64632-30	A-15-009-1	TCLP	Solid	6010B	182721
LB 720-182665/1-B	Method Blank	TCLP	Solid	6010B	182721
LCS 720-182721/2-A	Lab Control Sample	Total/NA	Solid	6010B	182721
LCSD 720-182721/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	182721
MB 720-182721/1-A	Method Blank	Total/NA	Solid	6010B	182721

Leach Batch: 182839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-8	A-15-003-1.5	STLC Citrate	Solid	CA WET Citrate	
720-64632-9	A-15-003-2	STLC Citrate	Solid	CA WET Citrate	
720-64632-30	A-15-009-1	STLC Citrate	Solid	CA WET Citrate	
LB4 720-182839/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 183038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-8	A-15-003-1.5	STLC Citrate	Solid	3005A	182839
720-64632-9	A-15-003-2	STLC Citrate	Solid	3005A	182839
720-64632-30	A-15-009-1	STLC Citrate	Solid	3005A	182839
LB4 720-182839/1-B	Method Blank	STLC Citrate	Solid	3005A	182839
LCS 720-183038/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-183038/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-183038/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 183059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-8	A-15-003-1.5	STLC Citrate	Solid	6010B	183038
720-64632-9	A-15-003-2	STLC Citrate	Solid	6010B	183038
720-64632-30	A-15-009-1	STLC Citrate	Solid	6010B	183038

Metals (Continued)

Analysis Batch: 183059 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB4 720-182839/1-B	Method Blank	STLC Citrate	Solid	6010B	183038
LCS 720-183038/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	183038
LCSD 720-183038/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	183038
MB 720-183038/1-A	Method Blank	Total Recoverable	Solid	6010B	183038

Leach Batch: 183946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-11	A-15-003-6	STLC Citrate	Solid	CA WET Citrate	
720-64632-11 MS	A-15-003-6	STLC Citrate	Solid	CA WET Citrate	
720-64632-11 MSD	A-15-003-6	STLC Citrate	Solid	CA WET Citrate	
720-64632-20	A-15-006-1.5	STLC Citrate	Solid	CA WET Citrate	
720-64632-23	A-15-007-1	STLC Citrate	Solid	CA WET Citrate	
720-64632-27	A-15-008-1	STLC Citrate	Solid	CA WET Citrate	
720-64632-33	A-15-010-1	STLC Citrate	Solid	CA WET Citrate	
LB4 720-183946/1-B	Method Blank	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 184005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-11	A-15-003-6	STLC Citrate	Solid	3005A	183946
720-64632-11 MS	A-15-003-6	STLC Citrate	Solid	3005A	183946
720-64632-11 MSD	A-15-003-6	STLC Citrate	Solid	3005A	183946
720-64632-20	A-15-006-1.5	STLC Citrate	Solid	3005A	183946
720-64632-23	A-15-007-1	STLC Citrate	Solid	3005A	183946
720-64632-27	A-15-008-1	STLC Citrate	Solid	3005A	183946
720-64632-33	A-15-010-1	STLC Citrate	Solid	3005A	183946
LB4 720-183946/1-B	Method Blank	STLC Citrate	Solid	3005A	183946
LCS 720-184005/2-A	Lab Control Sample	Total Recoverable	Solid	3005A	
LCSD 720-184005/3-A	Lab Control Sample Dup	Total Recoverable	Solid	3005A	
MB 720-184005/1-A	Method Blank	Total Recoverable	Solid	3005A	

Analysis Batch: 184043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-64632-11	A-15-003-6	STLC Citrate	Solid	6010B	184005
720-64632-11 MS	A-15-003-6	STLC Citrate	Solid	6010B	184005
720-64632-11 MSD	A-15-003-6	STLC Citrate	Solid	6010B	184005
720-64632-20	A-15-006-1.5	STLC Citrate	Solid	6010B	184005
720-64632-23	A-15-007-1	STLC Citrate	Solid	6010B	184005
720-64632-27	A-15-008-1	STLC Citrate	Solid	6010B	184005
720-64632-33	A-15-010-1	STLC Citrate	Solid	6010B	184005
LB4 720-183946/1-B	Method Blank	STLC Citrate	Solid	6010B	184005
LCS 720-184005/2-A	Lab Control Sample	Total Recoverable	Solid	6010B	184005
LCSD 720-184005/3-A	Lab Control Sample Dup	Total Recoverable	Solid	6010B	184005
MB 720-184005/1-A	Method Blank	Total Recoverable	Solid	6010B	184005

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-001-1.5 — Lab Sample ID: 720-64632-1

Date Collected: 05/05/15 09:30 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181283	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181271	05/08/15 14:51	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181348	05/11/15 17:23	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 05:55	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 15:45	DCH	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 12:31	EFH	TAL PLS

Client Sample ID: A-15-001-2 — Lab Sample ID: 720-64632-2

Date Collected: 05/05/15 09:25 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 12:36	EFH	TAL PLS

Client Sample ID: A-15-001-3 — Lab Sample ID: 720-64632-3

Date Collected: 05/05/15 09:48 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181283	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181271	05/08/15 15:19	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/12/15 12:10	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 06:12	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 18:49	DCH	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 12:50	EFH	TAL PLS

Client Sample ID: A-15-001-6 — Lab Sample ID: 720-64632-4

Date Collected: 05/05/15 09:43 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181283	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181271	05/08/15 15:48	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS

Client Sample ID: A-15-001-6 — Lab Sample ID: 720-64632-4

Date Collected: 05/05/15 09:43
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015B		1	181348	05/11/15 16:59	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 06:30	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 19:06	DCH	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 12:55	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:19	SLK	TAL PLS

Client Sample ID: A-15-002-1.5 — Lab Sample ID: 720-64632-5

Date Collected: 05/05/15 10:27
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181283	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181271	05/08/15 16:16	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181348	05/11/15 14:09	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 05:37	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 05:46	DCH	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 12:59	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:22	SLK	TAL PLS

Client Sample ID: A-15-002-2 — Lab Sample ID: 720-64632-6

Date Collected: 05/05/15 10:20
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 11:58	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181348	05/11/15 14:33	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 06:47	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 06:03	DCH	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 13:04	EFH	TAL PLS

Client Sample ID: A-15-002-3 — Lab Sample ID: 720-64632-7

Date Collected: 05/05/15 10:14
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 12:28	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181348	05/11/15 14:58	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 07:05	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 06:19	DCH	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 13:09	EFH	TAL PLS

Client Sample ID: A-15-003-1.5 — Lab Sample ID: 720-64632-8

Date Collected: 05/05/15 11:34
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			182839	06/02/15 12:01	ASB	TAL PLS
STLC Citrate	Prep	3005A			183038	06/04/15 13:54	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	183059	06/04/15 15:48	CAM	TAL PLS
TCLP	Leach	1311			182665	05/29/15 17:06	ASB	TAL PLS
TCLP	Prep	3010A			182721	05/30/15 14:57	ASB	TAL PLS
TCLP	Analysis	6010B		1	182798	06/01/15 20:24	CAM	TAL PLS
Total/NA	Prep	3050B			181494	05/12/15 18:19	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181564	05/13/15 13:13	EFH	TAL PLS

Client Sample ID: A-15-003-2 — Lab Sample ID: 720-64632-9

Date Collected: 05/05/15 11:30
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 12:57	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		3	181444	05/12/15 15:06	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 07:22	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 06:36	DCH	TAL PLS
STLC Citrate	Leach	CA WET Citrate			182839	06/02/15 12:01	ASB	TAL PLS
STLC Citrate	Prep	3005A			183038	06/04/15 13:54	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	183059	06/04/15 15:53	CAM	TAL PLS
TCLP	Leach	1311			182665	05/29/15 17:06	ASB	TAL PLS
TCLP	Prep	3010A			182721	05/30/15 14:57	ASB	TAL PLS
TCLP	Analysis	6010B		1	182798	06/01/15 20:29	CAM	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-003-2 — Lab Sample ID: 720-64632-9

Date Collected: 05/05/15 11:30
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:08	SLK	TAL PLS

Client Sample ID: A-15-003-3 — Lab Sample ID: 720-64632-10

Date Collected: 05/05/15 12:01
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:13	SLK	TAL PLS

Client Sample ID: A-15-003-6 — Lab Sample ID: 720-64632-11

Date Collected: 05/05/15 11:41
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181648	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1000	181623	05/14/15 13:18	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		5	181444	05/12/15 15:35	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 07:40	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 06:53	DCH	TAL PLS
STLC Citrate	Leach	CA WET Citrate			183946	06/20/15 09:59	ECT	TAL PLS
STLC Citrate	Prep	3005A			184005	06/22/15 10:10	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	184043	06/22/15 18:12	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:17	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181696	05/14/15 14:02	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:24	SLK	TAL PLS

Client Sample ID: A-15-004-1 — Lab Sample ID: 720-64632-12

Date Collected: 05/05/15 14:04
Date Received: 05/07/15 15:30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:32	SLK	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-004-2 — Lab Sample ID: 720-64632-13

Date Collected: 05/05/15 14:00 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181283	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181271	05/08/15 18:39	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181444	05/12/15 14:37	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 07:57	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 16:35	DCH	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:36	SLK	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:27	SLK	TAL PLS

Client Sample ID: A-15-004-3 — Lab Sample ID: 720-64632-14

Date Collected: 05/05/15 13:55 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:41	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181696	05/14/15 14:06	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:29	SLK	TAL PLS

Client Sample ID: A-15-005-1.5 — Lab Sample ID: 720-64632-15

Date Collected: 05/05/15 14:30 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181283	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181271	05/08/15 19:07	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/12/15 11:41	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 08:15	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/14/15 06:36	DCH	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:46	SLK	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-005-2 — Lab Sample ID: 720-64632-16

Date Collected: 05/05/15 14:47 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:50	SLK	TAL PLS

Client Sample ID: A-15-005-3 — Lab Sample ID: 720-64632-17

Date Collected: 05/05/15 14:45 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 21:55	SLK	TAL PLS

Client Sample ID: A-15-005-6 — Lab Sample ID: 720-64632-18

Date Collected: 05/05/15 14:43 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181449	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181428	05/12/15 17:02	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		1	181348	05/11/15 16:35	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 08:32	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 17:09	DCH	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:00	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181696	05/14/15 14:11	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:36	SLK	TAL PLS

Client Sample ID: A-15-005-6GW — Lab Sample ID: 720-64632-19

Date Collected: 05/05/15 11:10 — **Matrix: Water**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	181490	05/13/15 06:10	PRD	TAL PLS
Total/NA	Prep	3510C			181383	05/11/15 14:10	NDU	TAL PLS
Total/NA	Analysis	8015B		1	181444	05/12/15 13:38	JXL	TAL PLS
Total/NA	Prep	3510C			181441	05/12/15 09:58	NDU	TAL PLS
Total/NA	Analysis	8081A		1	181514	05/13/15 06:16	MQL	TAL PLS
Total/NA	Prep	3510C			181442	05/12/15 10:02	NDU	TAL PLS
Total/NA	Analysis	8082		1	181423	05/12/15 21:38	DCH	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-006-1.5

Lab Sample ID: 720-64632-20
Date Collected: 05/06/15 15:21
Matrix: Solid
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 14:27	PRD	TAL PLS
Total/NA	Prep	3546			181296	05/08/15 15:07	JRD	TAL PLS
Total/NA	Analysis	8015B		5	181348	05/11/15 18:36	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 08:50	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 17:25	DCH	TAL PLS
STLC Citrate	Leach	CA WET Citrate			183946	06/20/15 09:59	ECT	TAL PLS
STLC Citrate	Prep	3005A			184005	06/22/15 10:10	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	184043	06/22/15 18:17	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:04	SLK	TAL PLS

Client Sample ID: A-15-006-2

Lab Sample ID: 720-64632-21
Date Collected: 05/05/15 15:36
Matrix: Solid
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 14:56	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181444	05/12/15 22:49	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 09:07	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 17:42	DCH	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:09	SLK	TAL PLS

Client Sample ID: A-15-006-3

Lab Sample ID: 720-64632-22
Date Collected: 05/05/15 15:32
Matrix: Solid
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 15:26	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181444	05/12/15 22:20	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 09:25	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 17:59	DCH	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-006-3 — Lab Sample ID: 720-64632-22

Date Collected: 05/05/15 15:32 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:14	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181696	05/14/15 14:16	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:39	SLK	TAL PLS

Client Sample ID: A-15-007-1 — Lab Sample ID: 720-64632-23

Date Collected: 05/06/15 08:33 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			183946	06/20/15 09:59	ECT	TAL PLS
STLC Citrate	Prep	3005A			184005	06/22/15 10:10	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	184043	06/22/15 18:22	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:28	SLK	TAL PLS

Client Sample ID: A-15-007-2 — Lab Sample ID: 720-64632-24

Date Collected: 05/06/15 08:31 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:32	SLK	TAL PLS

Client Sample ID: A-15-007-3 — Lab Sample ID: 720-64632-25

Date Collected: 05/06/15 07:40 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 15:55	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		3	181521	05/13/15 11:44	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 09:42	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 18:16	DCH	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:37	SLK	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-007-6 — Lab Sample ID: 720-64632-26

Date Collected: 05/06/15 08:35 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:42	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181696	05/14/15 14:20	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:41	SLK	TAL PLS

Client Sample ID: A-15-008-1 — Lab Sample ID: 720-64632-27

Date Collected: 05/06/15 07:50 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 16:25	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		10	181521	05/13/15 12:08	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		5	181620	05/14/15 10:00	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181519	05/13/15 18:32	DCH	TAL PLS
STLC Citrate	Leach	CA WET Citrate			183946	06/20/15 09:59	ECT	TAL PLS
STLC Citrate	Prep	3005A			184005	06/22/15 10:10	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	184043	06/22/15 18:38	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:46	SLK	TAL PLS
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181696	05/14/15 14:50	EFH	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:44	SLK	TAL PLS

Client Sample ID: A-15-008-2 — Lab Sample ID: 720-64632-28

Date Collected: 05/06/15 07:45 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181498	05/12/15 19:52	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181635	05/13/15 22:51	SLK	TAL PLS
Total/NA	Prep	7471A			181473	05/12/15 15:43	SLK	TAL PLS
Total/NA	Analysis	7471A		1	181509	05/12/15 21:46	SLK	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-008-3 — Lab Sample ID: 720-64632-29

Date Collected: 05/06/15 07:40 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:05	SLK	TAL PLS

Client Sample ID: A-15-009-1 — Lab Sample ID: 720-64632-30

Date Collected: 05/06/15 10:15 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181449	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181428	05/12/15 14:38	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		3	181444	05/13/15 02:14	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 10:17	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/14/15 06:53	DCH	TAL PLS
STLC Citrate	Leach	CA WET Citrate			182839	06/02/15 12:01	ASB	TAL PLS
STLC Citrate	Prep	3005A			183038	06/04/15 13:54	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	183059	06/04/15 15:58	CAM	TAL PLS
TCLP	Leach	1311			182665	05/29/15 17:06	ASB	TAL PLS
TCLP	Prep	3010A			182721	05/30/15 14:57	ASB	TAL PLS
TCLP	Analysis	6010B		1	182798	06/01/15 20:34	CAM	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		100	181698	05/14/15 14:59	SLK	TAL PLS

Client Sample ID: A-15-009-2 — Lab Sample ID: 720-64632-31

Date Collected: 05/06/15 10:09 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181365	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181341	05/11/15 17:25	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		5	181444	05/13/15 02:44	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 10:35	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/14/15 07:10	DCH	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:15	SLK	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181698	05/14/15 15:05	SLK	TAL PLS
Total/NA	Prep	7471A			181607	05/13/15 18:57	ECT	TAL PLS
Total/NA	Analysis	7471A		1	181702	05/14/15 16:04	SLK	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-009-3

Lab Sample ID: 720-64632-32

Date Collected: 05/06/15 10:04
Matrix: Solid
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181449	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181428	05/12/15 16:33	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/12/15 23:19	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 10:52	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 20:13	DCH	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:20	SLK	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181698	05/14/15 15:09	SLK	TAL PLS
Total/NA	Prep	7471A			181607	05/13/15 18:57	ECT	TAL PLS
Total/NA	Analysis	7471A		1	181702	05/14/15 16:06	SLK	TAL PLS

Client Sample ID: A-15-010-1

Lab Sample ID: 720-64632-33

Date Collected: 05/06/15 09:32
Matrix: Solid
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181413	05/07/15 21:15	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181390	05/11/15 22:12	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		5	181521	05/13/15 12:32	JXL	TAL PLS
Total/NA	Prep	3546			181486	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 11:10	JZT	TAL PLS
Total/NA	Prep	3546			181484	05/12/15 17:02	BSY	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 20:29	DCH	TAL PLS
STLC Citrate	Leach	CA WET Citrate			183946	06/20/15 09:59	ECT	TAL PLS
STLC Citrate	Prep	3005A			184005	06/22/15 10:11	ECT	TAL PLS
STLC Citrate	Analysis	6010B		1	184043	06/22/15 18:43	SLK	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181709	05/14/15 16:43	CAM	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:24	SLK	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		1	181698	05/14/15 15:15	SLK	TAL PLS
Total/NA	Prep	7471A			181607	05/13/15 18:57	ECT	TAL PLS
Total/NA	Analysis	7471A		1	181702	05/14/15 16:09	SLK	TAL PLS

Client Sample ID: A-15-010-2 — Lab Sample ID: 720-64632-34

Date Collected: 05/06/15 09:31 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181449	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181428	05/12/15 17:30	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/12/15 23:48	JXL	TAL PLS
Total/NA	Prep	3546			181539	05/13/15 08:55	AFM	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 12:03	JZT	TAL PLS
Total/NA	Prep	3546			181540	05/13/15 09:02	AFM	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 21:05	DCH	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:29	SLK	TAL PLS

Client Sample ID: A-15-010-3 — Lab Sample ID: 720-64632-35

Date Collected: 05/06/15 09:25 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181413	05/07/15 21:15	LPL	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181390	05/11/15 23:12	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/12/15 22:49	JXL	TAL PLS
Total/NA	Prep	3546			181539	05/13/15 08:55	AFM	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 12:20	JZT	TAL PLS
Total/NA	Prep	3546			181540	05/13/15 09:02	AFM	TAL PLS
Total/NA	Analysis	8082		1	181520	05/13/15 21:22	DCH	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:44	SLK	TAL PLS
Total/NA	Prep	7471A			181607	05/13/15 18:57	ECT	TAL PLS
Total/NA	Analysis	7471A		1	181702	05/14/15 16:11	SLK	TAL PLS

Client Sample ID: A-15-011-1.5 — Lab Sample ID: 720-64632-36

Date Collected: 05/05/15 08:32 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			181576	05/13/15 14:13	JRM	TAL PLS
Total/NA	Analysis	6010B		4	181666	05/14/15 01:00	SLK	TAL PLS

Client Sample ID: A-15-011-2 — Lab Sample ID: 720-64632-37

Date Collected: 05/05/15 08:42 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181449	05/07/15 21:15	PRD	TAL PLS

Lab Chronicle

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Client Sample ID: A-15-011-2 — Lab Sample ID: 720-64632-37

Date Collected: 05/05/15 08:42 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B/CA_LUFTMS		1	181428	05/12/15 15:36	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/13/15 00:17	JXL	TAL PLS
Total/NA	Prep	3546			181539	05/13/15 08:55	AFM	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 12:38	JZT	TAL PLS
Total/NA	Prep	3546			181540	05/13/15 09:02	AFM	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 04:23	DCH	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:49	SLK	TAL PLS

Client Sample ID: A-15-011-3 — Lab Sample ID: 720-64632-38

Date Collected: 05/05/15 08:46 — **Matrix: Solid**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			181449	05/07/15 21:15	PRD	TAL PLS
Total/NA	Analysis	8260B/CA_LUFTMS		1	181428	05/12/15 17:59	PRD	TAL PLS
Total/NA	Prep	3546			181458	05/12/15 13:26	CJG	TAL PLS
Total/NA	Analysis	8015B		1	181445	05/12/15 22:20	JXL	TAL PLS
Total/NA	Prep	3546			181539	05/13/15 08:55	AFM	TAL PLS
Total/NA	Analysis	8081A		1	181620	05/14/15 12:55	JZT	TAL PLS
Total/NA	Prep	3546			181540	05/13/15 09:02	AFM	TAL PLS
Total/NA	Analysis	8082		1	181519	05/14/15 04:39	DCH	TAL PLS
Total/NA	Prep	3050B			181506	05/12/15 21:35	CTD	TAL PLS
Total/NA	Analysis	6010B		4	181639	05/14/15 02:54	SLK	TAL PLS

Client Sample ID: EB-1 — Lab Sample ID: 720-64632-39

Date Collected: 05/06/15 10:38 — **Matrix: Water**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	181490	05/13/15 05:08	PRD	TAL PLS

Client Sample ID: EB-2 — Lab Sample ID: 720-64632-40

Date Collected: 05/06/15 11:12 — **Matrix: Water**
Date Received: 05/07/15 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	181490	05/13/15 05:39	PRD	TAL PLS

Laboratory References:
TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Laboratory: TestAmerica Pleasanton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-16

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-15
Arizona	State Program	9	AZ0671	10-13-15
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Nevada	State Program	9	CA015312007A	07-31-15
New Mexico	State Program	6	N/A	01-29-15 *
Northern Mariana Islands	State Program	9	MP0002	01-29-15 *
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	06-06-15

* Certification renewal pending - certification considered valid.

Method Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8260B/CA_LUFTMS	8260B / CA LUFT MS	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Earth Mechanics Incorporated
Project/Site: IERBYS

TestAmerica Job ID: 720-64632-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-64632-1	A-15-001-1.5	Solid	05/05/15 09:30	05/07/15 15:30
720-64632-2	A-15-001-2	Solid	05/05/15 09:25	05/07/15 15:30
720-64632-3	A-15-001-3	Solid	05/05/15 09:48	05/07/15 15:30
720-64632-4	A-15-001-6	Solid	05/05/15 09:43	05/07/15 15:30
720-64632-5	A-15-002-1.5	Solid	05/05/15 10:27	05/07/15 15:30
720-64632-6	A-15-002-2	Solid	05/05/15 10:20	05/07/15 15:30
720-64632-7	A-15-002-3	Solid	05/05/15 10:14	05/07/15 15:30
720-64632-8	A-15-003-1.5	Solid	05/05/15 11:34	05/07/15 15:30
720-64632-9	A-15-003-2	Solid	05/05/15 11:30	05/07/15 15:30
720-64632-10	A-15-003-3	Solid	05/05/15 12:01	05/07/15 15:30
720-64632-11	A-15-003-6	Solid	05/05/15 11:41	05/07/15 15:30
720-64632-12	A-15-004-1	Solid	05/05/15 14:04	05/07/15 15:30
720-64632-13	A-15-004-2	Solid	05/05/15 14:00	05/07/15 15:30
720-64632-14	A-15-004-3	Solid	05/05/15 13:55	05/07/15 15:30
720-64632-15	A-15-005-1.5	Solid	05/05/15 14:30	05/07/15 15:30
720-64632-16	A-15-005-2	Solid	05/05/15 14:47	05/07/15 15:30
720-64632-17	A-15-005-3	Solid	05/05/15 14:45	05/07/15 15:30
720-64632-18	A-15-005-6	Solid	05/05/15 14:43	05/07/15 15:30
720-64632-19	A-15-005-6GW	Water	05/05/15 11:10	05/07/15 15:30
720-64632-20	A-15-006-1.5	Solid	05/06/15 15:21	05/07/15 15:30
720-64632-21	A-15-006-2	Solid	05/05/15 15:36	05/07/15 15:30
720-64632-22	A-15-006-3	Solid	05/05/15 15:32	05/07/15 15:30
720-64632-23	A-15-007-1	Solid	05/06/15 08:33	05/07/15 15:30
720-64632-24	A-15-007-2	Solid	05/06/15 08:31	05/07/15 15:30
720-64632-25	A-15-007-3	Solid	05/06/15 07:40	05/07/15 15:30
720-64632-26	A-15-007-6	Solid	05/06/15 08:35	05/07/15 15:30
720-64632-27	A-15-008-1	Solid	05/06/15 07:50	05/07/15 15:30
720-64632-28	A-15-008-2	Solid	05/06/15 07:45	05/07/15 15:30
720-64632-29	A-15-008-3	Solid	05/06/15 07:40	05/07/15 15:30
720-64632-30	A-15-009-1	Solid	05/06/15 10:15	05/07/15 15:30
720-64632-31	A-15-009-2	Solid	05/06/15 10:09	05/07/15 15:30
720-64632-32	A-15-009-3	Solid	05/06/15 10:04	05/07/15 15:30
720-64632-33	A-15-010-1	Solid	05/06/15 09:32	05/07/15 15:30
720-64632-34	A-15-010-2	Solid	05/06/15 09:31	05/07/15 15:30
720-64632-35	A-15-010-3	Solid	05/06/15 09:25	05/07/15 15:30
720-64632-36	A-15-011-1.5	Solid	05/05/15 08:32	05/07/15 15:30
720-64632-37	A-15-011-2	Solid	05/05/15 08:42	05/07/15 15:30
720-64632-38	A-15-011-3	Solid	05/05/15 08:46	05/07/15 15:30
720-64632-39	EB-1	Water	05/06/15 10:38	05/07/15 15:30
720-64632-40	EB-2	Water	05/06/15 11:12	05/07/15 15:30

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax

Chain of Custody Record

720-64632

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

160985

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Mike Kapuskar	Site Contact: Dane Nicklaus	Date:	COC No:
Earth Mechanics, Inc.	Tel/Fax: (714) 751-3826	Lab Contact: Heather Clark	Carrier:	1 of 4 COCs
3541 Investment Blvd, Suite #4	Analysis Turnaround Time			Sampler: DN
Hayward, CA 94545	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 562-8833 Phone	TAT if different from Below _____			Walk-in Client:
(510) 562-8858 FAX	☐ 2 weeks			Lab Sampling:
Project Name: IERBY Improvements	☐ 1 week			
Site: 210 Burma Road, Oakland CA	☐ 2 days			Job / SDG No
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Lead (6010B)	CAM Metals (6010B/7471A)	TPH-g/d/mo (8015M)	VOC (8260B)	Pesticides (8081A)	PCB (8082)	Sample Specific Notes.
A-15-001-1.5	5/5	0930	G	Soil	5			X		X	X	X	X	
A-15-001-2	5/5	0925	G	Soil	1			X						
A-15-001-3	5/5	0948	G	Soil	5			X		X	X	X	X	
A-15-001-6	5/5	0943	G	Soil	5				X	X	X	X	X	
A-15-002-1.5	5/5	1027	G	Soil	5				X	X	X	X	X	
A-15-002-2	5/5	1020	G	Soil	5			X		X	X	X	X	
A-15-002-3	5/5	1014	G	Soil	5			X		X	X	X	X	
A-15-003-1.5	5/5	1134	G	Soil	1			X						
A-15-003-2	5/5	1130	G	Soil	5			X		X	X	X	X	
A-15-003-3	5/5	1201	G	Soil	1			X						
A-15-003-6	5/5	1141	G	Soil	5				X	X	X	X	X	
A-15-004-1	5/5	1404	G	Soil	1			X						

720-64632 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2°

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No.. | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time
[signature]	Earth Mechanics, Inc	5/7/15 11:23	[signature]	TA	5/7/15 1123
[signature]	TA	5/7/15 1530			
			Received in Laboratory by: [signature]	Company: TA	Date/Time: 5-7-15 1530

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484 1919 fax

Chain of Custody Record

720-64632 160985

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Mike Kapuskar	Site Contact: Dane Nicklaus	Date:	COC No:
Earth Mechanics, Inc.	Tel/Fax: (714) 751-3826	Lab Contact: Heather Clark	Carrier:	2 of 4 COCs
3541 Investment Blvd, Suite #4	Analysis Turnaround Time			Sampler: DN
Hayward, CA 94545	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 562-8833 Phone	TAT if different from Below _____			Walk-in Client:
(510) 562-8858 FAX	☐ 2 weeks			Lab Sampling
Project Name: IERBY Improvements	☑ 1 week			
Site: 210 Burma Road, Oakland CA	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Lead (6010B)	CAM Metals (6010B/7471A)	TPH-g/d/mo (8015M)	VOC (8260B)	Pesticides (8081A)	PCB (8082)	Sample Specific Notes:
A-15-004-2	5/5	1400	G	Soil	5				X	X	X	X	X	
A-15-004-3	5/5	1355	G	Soil	1				X					
A-15-005-1.5	5/5	1430	G	Soil	6			X		X	X	X	X	
A-15-005-2	5/5	1447	G	Soil	1			X						
A-15-005-3	5/5	1448	G	Soil	1			X						
A-15-005-6	5/5	1443	G	Soil	5				X	X	X	X	X	
A-15-005-6GW	5/6	1110	G	Water	9					X	X	X	X	
A-15-006-1.5	5/5	1521	G	Soil	5			X		X	X	X	X	
A-15-006-2	5/5	1536	G	Soil	5			X		X	X	X	X	
A-15-006-3	5/5	1532	G	Soil	5				X	X	X	X	X	
A-15-007-1	5/6	0833	G	Soil	1			X						
A-15-007-2	5/6	0831	G	Soil	1			X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (*A fee may be assessed if samples are retained longer than 1 month*)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C): Obs'd: _____ Corr'd: _____ | Therm ID No _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	EMI	5/7/15 1123	[signature]	TA	5/7/15 1123
Relinquished by: [signature]	Company: TA	Date/Time: 5/7/15 1530	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TestAmerica	Date/Time: 5-7-15 1530

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax

Chain of Custody Record

720-64632 160985

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other.

Client Contact	Project Manager: Mike Kapuskar	Site Contact: Dane Nicklaus	Date:	COC No
Earth Mechanics, Inc.	Tel/Fax: (714) 751-3826	Lab Contact: Heather Clark	Carrier:	3 of 4 COCs
3541 Investment Blvd, Suite #4	Analysis Turnaround Time			Sampler: DN
Hayward, CA 94545	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 562-8833 Phone	TAT if different from Below _____			Walk-in Client
(510) 562-8858 FAX	☐ 2 weeks			Lab Sampling
Project Name: IERBY Improvements	☑ 1 week			
Site: 210 Burma Road, Oakland CA	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Lead (6010B)	CAM Metals (6010B/7471A)	TPH-g/d/mo (8015M)	VOC (8260B)	Pesticides (8081A)	PCB (8082)	Sample Specific Notes.
A-15-007-3	5/6	0740	G	Soil	5			X		X	X	X	X	
A-15-007-6	5/6	0835	G	Soil	1				X					
A-15-008-1	5/6	0750	G	Soil	5				X	X	X	X	X	
A-15-008-2	5/6	0745	G	Soil	1				X					
A-15-008-3	5/6	0740	G	Soil	1			X						
A-15-009-1	5/6	1015	G	Soil	5			X		X	X	X	X	
A-15-009-2	5/6	1009	G	Soil	5				X	X	X	X	X	
A-15-009-3	5/6	1004	G	Soil	5				X	X	X	X	X	
A-15-010-1	5/6	0935	G	Soil	5				X	X	X	X	X	
A-15-010-2	5/6	0931	G	Soil	5			X		X	X	X	X	
A-15-010-3	5/6	0925	G	Soil	5				X	X	X	X	X	
A-15-011-1	5/5	0832	G	Soil	1			X						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No : | Cooler Temp (°C): Obs'd _____ Corr'd: _____ | Therm ID No.. _____

Relinquished by:	Company:	Date/Time:	Received by:	Company	Date/Time:
[signature]	EMI	5/7/15 11:23	[signature]	TA	5/7/15 1123
Relinquished by: [signature]	Company: TA	Date/Time: 5/7/15 1530	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TestAmerica	Date/Time: 5-7-15 1530

Form No. CA-C-WI-002, Rev. 4.3, dated 12/05/2013

6/23/2015

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax

Chain of Custody Record

720-64632
160985

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Mike Kapuskar	Site Contact: Dane Nicklaus	Date:	COC No:
Earth Mechanics, Inc.	Tel/Fax: (714) 751-3826	Lab Contact: Heather Clark	Carrier:	4 of 4 COCs
3541 Investment Blvd, Suite #4	Analysis Turnaround Time			Sampler: DN
Hayward, CA 94545	☑ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(510) 562-8833 Phone	TAT if different from Below _____			Walk-in Client:
(510) 562-8858 FAX	☐ 2 weeks			Lab Sampling:
Project Name: IERBY Improvements	☑ 1 week			
Site: 210 Burma Road, Oakland CA	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Lead (6010B)	CAM Metals (6010B/7471A)	TPH-g/d/mo (8015M)	VOC (8260B)	Pesticides (8081A)	PCB (8082)	Sample Specific Notes:
A-15-011-2	5/5	0842	G	Soil	5			X		X	X	X	X	
A-15-011-3	5/5	0846	G	Soil	1			X		X	X	X	X	
EB-1	5/6	1038	G	Water	3						X			
EB-2	5/6	1112	G	Water	3						X			
TB-1			G	Water	3						X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C). Obs'd. _____ Corr'd _____ Therm ID No. _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	EMI	5/7/15 11:23	[signature]	TA	5/7/15 1123
Relinquished by: [signature]	Company: TA	Date/Time: 5/7/15 1530	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 5-7-15/1530

Login Sample Receipt Checklist

Client: Earth Mechanics Incorporated

Job Number: 720-64632-3

Login Number: 64632
List Number: 1
Creator: Mullen, Joan

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	False	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX C

PRINTOUTS FROM PROUCL

Arsenic

90% and 95% UCL

	A	B	C	D	E	F	G	H	I	J	K	L
1					UCL Statistics for Uncensored Full Data Sets							
2												
3				User Selected Options								
4				Date/Time of Computation	5/18/2015 9:03:24 AM							
5				From File	Data for ProUCL.xls							
6				Full Precision	OFF							
7				Confidence Coefficient	90%							
8				Number of Bootstrap Operations	2000							
9												
10												
11	Arsenicc											
12												
13					General Statistics							
14				Total Number of Observations		14		Number of Distinct Observations				12
15								Number of Missing Observations				0
16				Minimum		1.5		Mean				4.307
17				Maximum		6.8		Median				4.45
18				SD		1.711		Std. Error of Mean				0.457
19				Coefficient of Variation		0.397		Skewness				-0.14
20												
21					Normal GOF Test							
22				Shapiro Wilk Test Statistic		0.951		Shapiro Wilk GOF Test				
23				5% Shapiro Wilk Critical Value		0.874		Data appear Normal at 5% Significance Level				
24				Lilliefors Test Statistic		0.11		Lilliefors GOF Test				
25				5% Lilliefors Critical Value		0.237		Data appear Normal at 5% Significance Level				
26					Data appear Normal at 5% Significance Level							
27												
28					Assuming Normal Distribution							
29				90% Normal UCL				90% UCLs (Adjusted for Skewness)				
30				90% Student's-t UCL		4.925		90% Adjusted-CLT UCL (Chen-1995)				4.881
31								90% Modified-t UCL (Johnson-1978)				4.922
32												
33					Gamma GOF Test							
34				A-D Test Statistic		0.409		Anderson-Darling Gamma GOF Test				
35				5% A-D Critical Value		0.738		Detected data appear Gamma Distributed at 5% Significance Level				
36				K-S Test Statistic		0.148		Kolmogrov-Smirnoff Gamma GOF Test				
37				5% K-S Critical Value		0.229		Detected data appear Gamma Distributed at 5% Significance Level				
38					Detected data appear Gamma Distributed at 5% Significance Level							
39												
40					Gamma Statistics							
41				k hat (MLE)		5.574		k star (bias corrected MLE)				4.427
42				Theta hat (MLE)		0.773		Theta star (bias corrected MLE)				0.973
43				nu hat (MLE)		156.1		nu star (bias corrected)				124
44				MLE Mean (bias corrected)		4.307		MLE Sd (bias corrected)				2.047
45								Approximate Chi Square Value (0.1)				104.3
46				Adjusted Level of Significance		0.0781		Adjusted Chi Square Value				102.4
47												
48					Assuming Gamma Distribution							
49				90% Approximate Gamma UCL (use when n>=50))		5.121		90% Adjusted Gamma UCL (use when n<50)				5.216
50												
51					Lognormal GOF Test							
52				Shapiro Wilk Test Statistic		0.892		Shapiro Wilk Lognormal GOF Test				
53				5% Shapiro Wilk Critical Value		0.874		Data appear Lognormal at 5% Significance Level				

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.165	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.237	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	0.405				Mean of logged Data		1.368
60					Maximum of Logged Data	1.917				SD of logged Data		0.478
61												
62	Assuming Lognormal Distribution											
63					90% H-UCL	5.391				90% Chebyshev (MVUE) UCL		6.08
64					95% Chebyshev (MVUE) UCL	6.858				97.5% Chebyshev (MVUE) UCL		7.937
65					99% Chebyshev (MVUE) UCL	10.06						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71					90% CLT UCL	4.893				90% Jackknife UCL		4.925
72					90% Standard Bootstrap UCL	4.863				90% Bootstrap-t UCL		4.907
73					90% Hall's Bootstrap UCL	4.879				90% Percentile Bootstrap UCL		4.864
74					90% BCA Bootstrap UCL	4.871						
75					90% Chebyshev(Mean, Sd) UCL	5.679				95% Chebyshev(Mean, Sd) UCL		6.301
76					97.5% Chebyshev(Mean, Sd) UCL	7.163				99% Chebyshev(Mean, Sd) UCL		8.858
77												
78	Suggested UCL to Use											
79	Recommendation Provided only for 95% Confidence Coeficient											
80												
81	Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be											
82	reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.											
83												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			5/18/2015 8:50:56 AM								
5	From File			Data for ProUCL.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	Arsenicc											
12												
13	General Statistics											
14	Total Number of Observations					14	Number of Distinct Observations					12
15							Number of Missing Observations					0
16	Minimum					1.5	Mean					4.307
17	Maximum					6.8	Median					4.45
18	SD					1.711	Std. Error of Mean					0.457
19	Coefficient of Variation					0.397	Skewness					-0.14
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.951	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value					0.874	Data appear Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.11	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.237	Data appear Normal at 5% Significance Level					
26	Data appear Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					5.117	95% Adjusted-CLT UCL (Chen-1995)					5.041
31							95% Modified-t UCL (Johnson-1978)					5.114
32												
33	Gamma GOF Test											
34	A-D Test Statistic					0.409	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.738	Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.148	Kolmogrov-Smirnoff Gamma GOF Test					
37	5% K-S Critical Value					0.229	Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					5.574	k star (bias corrected MLE)					4.427
42	Theta hat (MLE)					0.773	Theta star (bias corrected MLE)					0.973
43	nu hat (MLE)					156.1	nu star (bias corrected)					124
44	MLE Mean (bias corrected)					4.307	MLE Sd (bias corrected)					2.047
45							Approximate Chi Square Value (0.05)					99.25
46	Adjusted Level of Significance					0.0312	Adjusted Chi Square Value					96.32
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					5.38	95% Adjusted Gamma UCL (use when n<50)					5.543
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.892	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value					0.874	Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.165	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.237	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	0.405			Mean of logged Data			1.368
60					Maximum of Logged Data	1.917			SD of logged Data			0.478
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	5.747			90% Chebyshev (MVUE) UCL			6.08
64					95% Chebyshev (MVUE) UCL	6.858			97.5% Chebyshev (MVUE) UCL			7.937
65					99% Chebyshev (MVUE) UCL	10.06						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	5.059			95% Jackknife UCL			5.117
72					95% Standard Bootstrap UCL	5.039			95% Bootstrap-t UCL			5.115
73					95% Hall's Bootstrap UCL	5.082			95% Percentile Bootstrap UCL			5.029
74					95% BCA Bootstrap UCL	5.007						
75					90% Chebyshev(Mean, Sd) UCL	5.679			95% Chebyshev(Mean, Sd) UCL			6.301
76					97.5% Chebyshev(Mean, Sd) UCL	7.163			99% Chebyshev(Mean, Sd) UCL			8.858
77												
78	Suggested UCL to Use											
79					95% Student's-t UCL	5.117						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												
86	Note: For highly negatively-skewed data, confidence limits (e.g., Chen, Johnson, Lognormal, and Gamma) may not be											
87	reliable. Chen's and Johnson's methods provide adjustments for positvely skewed data sets.											

Total Lead

90% and 95% UCL

Regression Analysis

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			5/18/2015 2:27:54 PM								
5	From File			Data for ProUCL Lead samples.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			90%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	1a											
12												
13	General Statistics											
14	Total Number of Observations					10	Number of Distinct Observations					10
15							Number of Missing Observations					0
16	Minimum					4.1	Mean					54.01
17	Maximum					180	Median					39.5
18	SD					55.49	Std. Error of Mean					17.55
19	Coefficient of Variation					1.027	Skewness					1.391
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.84	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value					0.842	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.224	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.28	Data appear Normal at 5% Significance Level					
26	Data appear Approximate Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	90% Normal UCL						90% UCLs (Adjusted for Skewness)					
30	90% Student's-t UCL					78.28	90% Adjusted-CLT UCL (Chen-1995)					82.01
31							90% Modified-t UCL (Johnson-1978)					79.56
32												
33	Gamma GOF Test											
34	A-D Test Statistic					0.353	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.748	Detected data appear Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.186	Kolmogrov-Smirnoff Gamma GOF Test					
37	5% K-S Critical Value					0.274	Detected data appear Gamma Distributed at 5% Significance Level					
38	Detected data appear Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					0.999	k star (bias corrected MLE)					0.766
42	Theta hat (MLE)					54.08	Theta star (bias corrected MLE)					70.53
43	nu hat (MLE)					19.97	nu star (bias corrected)					15.31
44	MLE Mean (bias corrected)					54.01	MLE Sd (bias corrected)					61.72
45							Approximate Chi Square Value (0.1)					8.787
46	Adjusted Level of Significance					0.0724	Adjusted Chi Square Value					8.134
47												
48	Assuming Gamma Distribution											
49	90% Approximate Gamma UCL (use when n>=50))					94.13	90% Adjusted Gamma UCL (use when n<50)					101.7
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.944	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value					0.842	Data appear Lognormal at 5% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L
54					Lilliefors Test Statistic	0.201	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.28	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	1.411			Mean of logged Data			3.411
60					Maximum of Logged Data	5.193			SD of logged Data			1.23
61												
62	Assuming Lognormal Distribution											
63					90% H-UCL	178.9			90% Chebyshev (MVUE) UCL			128.7
64					95% Chebyshev (MVUE) UCL	160.9			97.5% Chebyshev (MVUE) UCL			205.5
65					99% Chebyshev (MVUE) UCL	293.3						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71					90% CLT UCL	76.5			90% Jackknife UCL			78.28
72					90% Standard Bootstrap UCL	75.42			90% Bootstrap-t UCL			90.9
73					90% Hall's Bootstrap UCL	91.58			90% Percentile Bootstrap UCL			77.03
74					90% BCA Bootstrap UCL	80.5						
75					90% Chebyshev(Mean, Sd) UCL	106.6			95% Chebyshev(Mean, Sd) UCL			130.5
76					97.5% Chebyshev(Mean, Sd) UCL	163.6			99% Chebyshev(Mean, Sd) UCL			228.6
77												
78	Suggested UCL to Use											
79	Recommendation Provided only for 95% Confidence Coeficient											
80												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			5/18/2015 12:31:41 PM								
5	From File			Data for ProUCL Lead samples.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			90%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	1											
12												
13	General Statistics											
14	Total Number of Observations					11	Number of Distinct Observations					11
15							Number of Missing Observations					0
16	Minimum					4.1	Mean					3413
17	Maximum					37000	Median					58
18	SD					11140	Std. Error of Mean					3359
19	Coefficient of Variation					3.264	Skewness					3.316
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.349	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value					0.85	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.523	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.267	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	90% Normal UCL						90% UCLs (Adjusted for Skewness)					
30	90% Student's-t UCL					8022	90% Adjusted-CLT UCL (Chen-1995)					10116
31							90% Modified-t UCL (Johnson-1978)					8581
32												
33	Gamma GOF Test											
34	A-D Test Statistic					2.359	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.877	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.446	Kolmogrov-Smirnoff Gamma GOF Test					
37	5% K-S Critical Value					0.283	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					0.183	k star (bias corrected MLE)					0.194
42	Theta hat (MLE)					18653	Theta star (bias corrected MLE)					17622
43	nu hat (MLE)					4.025	nu star (bias corrected)					4.261
44	MLE Mean (bias corrected)					3413	MLE Sd (bias corrected)					7755
45							Approximate Chi Square Value (0.1)					1.205
46	Adjusted Level of Significance					0.0738	Adjusted Chi Square Value					1.018
47												
48	Assuming Gamma Distribution											
49	90% Approximate Gamma UCL (use when n>=50))					12068	90% Adjusted Gamma UCL (use when n<50)					14283
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.798	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value					0.85	Data Not Lognormal at 5% Significance Level					

54	Lilliefors Test Statistic	0.234	Lilliefors Lognormal GOF Test	
55	5% Lilliefors Critical Value	0.267	Data appear Lognormal at 5% Significance Level	
56	Data appear Approximate Lognormal at 5% Significance Level			
57				
58	Lognormal Statistics			
59	Minimum of Logged Data	1.411	Mean of logged Data	4.057
60	Maximum of Logged Data	10.52	SD of logged Data	2.44
61				
62	Assuming Lognormal Distribution			
63	90% H-UCL	30283	90% Chebyshev (MVUE) UCL	1846
64	95% Chebyshev (MVUE) UCL	2424	97.5% Chebyshev (MVUE) UCL	3226
65	99% Chebyshev (MVUE) UCL	4801		
66				
67	Nonparametric Distribution Free UCL Statistics			
68	Data appear to follow a Discernible Distribution at 5% Significance Level			
69				
70	Nonparametric Distribution Free UCLs			
71	90% CLT UCL	7717	90% Jackknife UCL	8022
72	90% Standard Bootstrap UCL	7608	90% Bootstrap-t UCL	963875
73	90% Hall's Bootstrap UCL	430373	90% Percentile Bootstrap UCL	6783
74	90% BCA Bootstrap UCL	10139		
75	90% Chebyshev(Mean, Sd) UCL	13489	95% Chebyshev(Mean, Sd) UCL	18053
76	97.5% Chebyshev(Mean, Sd) UCL	24388	99% Chebyshev(Mean, Sd) UCL	36832
77				
78	Suggested UCL to Use			
79	Recommendation Provided only for 95% Confidence Coeficient			
80				
81				
82	2			
83				
84	General Statistics			
85	Total Number of Observations	11	Number of Distinct Observations	11
86			Number of Missing Observations	0
87	Minimum	4.2	Mean	33.5
88	Maximum	180	Median	8.3
89	SD	55.85	Std. Error of Mean	16.84
90	Coefficient of Variation	1.667	Skewness	2.289
91				
92	Normal GOF Test			
93	Shapiro Wilk Test Statistic	0.594	Shapiro Wilk GOF Test	
94	5% Shapiro Wilk Critical Value	0.85	Data Not Normal at 5% Significance Level	
95	Lilliefors Test Statistic	0.384	Lilliefors GOF Test	
96	5% Lilliefors Critical Value	0.267	Data Not Normal at 5% Significance Level	
97	Data Not Normal at 5% Significance Level			
98				
99	Assuming Normal Distribution			
100	90% Normal UCL		90% UCLs (Adjusted for Skewness)	
101	90% Student's-t UCL	56.61	90% Adjusted-CLT UCL (Chen-1995)	63.38
102			90% Modified-t UCL (Johnson-1978)	58.55
103				
104	Gamma GOF Test			
105	A-D Test Statistic	1.425	Anderson-Darling Gamma GOF Test	
106	5% A-D Critical Value	0.768	Data Not Gamma Distributed at 5% Significance Level	

107					K-S Test Statistic	0.36		Kolmogrov-Smirnoff Gamma GOF Test				
108					5% K-S Critical Value	0.266		Data Not Gamma Distributed at 5% Significance Level				
109					Data Not Gamma Distributed at 5% Significance Level							
110												
111					Gamma Statistics							
112					k hat (MLE)	0.673		k star (bias corrected MLE)				0.55
113					Theta hat (MLE)	49.78		Theta star (bias corrected MLE)				60.9
114					nu hat (MLE)	14.81		nu star (bias corrected)				12.1
115					MLE Mean (bias corrected)	33.5		MLE Sd (bias corrected)				45.17
116								Approximate Chi Square Value (0.1)				6.379
117					Adjusted Level of Significance	0.0738		Adjusted Chi Square Value				5.864
118												
119					Assuming Gamma Distribution							
120					90% Approximate Gamma UCL (use when n>=50))	63.56		90% Adjusted Gamma UCL (use when n<50)				69.13
121												
122					Lognormal GOF Test							
123					Shapiro Wilk Test Statistic	0.807		Shapiro Wilk Lognormal GOF Test				
124					5% Shapiro Wilk Critical Value	0.85		Data Not Lognormal at 5% Significance Level				
125					Lilliefors Test Statistic	0.294		Lilliefors Lognormal GOF Test				
126					5% Lilliefors Critical Value	0.267		Data Not Lognormal at 5% Significance Level				
127					Data Not Lognormal at 5% Significance Level							
128												
129					Lognormal Statistics							
130					Minimum of Logged Data	1.435		Mean of logged Data				2.609
131					Maximum of Logged Data	5.193		SD of logged Data				1.258
132												
133					Assuming Lognormal Distribution							
134					90% H-UCL	79.64		90% Chebyshev (MVUE) UCL				59.58
135					95% Chebyshev (MVUE) UCL	74.42		97.5% Chebyshev (MVUE) UCL				95.01
136					99% Chebyshev (MVUE) UCL	135.5						
137												
138					Nonparametric Distribution Free UCL Statistics							
139					Data do not follow a Discernible Distribution (0.05)							
140												
141					Nonparametric Distribution Free UCLs							
142					90% CLT UCL	55.08		90% Jackknife UCL				56.61
143					90% Standard Bootstrap UCL	53.87		90% Bootstrap-t UCL				121.5
144					90% Hall's Bootstrap UCL	155.6		90% Percentile Bootstrap UCL				55.35
145					90% BCA Bootstrap UCL	64.96						
146					90% Chebyshev(Mean, Sd) UCL	84.02		95% Chebyshev(Mean, Sd) UCL				106.9
147					97.5% Chebyshev(Mean, Sd) UCL	138.7		99% Chebyshev(Mean, Sd) UCL				201.1
148												
149					Suggested UCL to Use							
150					Recommendation Provided only for 95% Confidence Coeficient							
151												
152												
153	3											
154												
155					General Statistics							
156					Total Number of Observations	11		Number of Distinct Observations				11
157								Number of Missing Observations				0
158					Minimum	1.5		Mean				12.83
159					Maximum	49		Median				8.4

160					SD	14.41				Std. Error of Mean	4.346
161					Coefficient of Variation	1.124				Skewness	2.019
162											
163					Normal GOF Test						
164					Shapiro Wilk Test Statistic	0.721	Shapiro Wilk GOF Test				
165					5% Shapiro Wilk Critical Value	0.85	Data Not Normal at 5% Significance Level				
166					Lilliefors Test Statistic	0.313	Lilliefors GOF Test				
167					5% Lilliefors Critical Value	0.267	Data Not Normal at 5% Significance Level				
168					Data Not Normal at 5% Significance Level						
169											
170					Assuming Normal Distribution						
171			90% Normal UCL				90% UCLs (Adjusted for Skewness)				
172					90% Student's-t UCL	18.79	90% Adjusted-CLT UCL (Chen-1995)				20.29
173							90% Modified-t UCL (Johnson-1978)				19.23
174											
175					Gamma GOF Test						
176					A-D Test Statistic	0.491	Anderson-Darling Gamma GOF Test				
177					5% A-D Critical Value	0.747	Detected data appear Gamma Distributed at 5% Significance Level				
178					K-S Test Statistic	0.194	Kolmogrov-Smirnoff Gamma GOF Test				
179					5% K-S Critical Value	0.261	Detected data appear Gamma Distributed at 5% Significance Level				
180					Detected data appear Gamma Distributed at 5% Significance Level						
181											
182					Gamma Statistics						
183					k hat (MLE)	1.239	k star (bias corrected MLE)				0.962
184					Theta hat (MLE)	10.35	Theta star (bias corrected MLE)				13.34
185					nu hat (MLE)	27.25	nu star (bias corrected)				21.15
186					MLE Mean (bias corrected)	12.83	MLE Sd (bias corrected)				13.08
187							Approximate Chi Square Value (0.1)				13.36
188					Adjusted Level of Significance	0.0738	Adjusted Chi Square Value				12.59
189											
190					Assuming Gamma Distribution						
191					90% Approximate Gamma UCL (use when n>=50))	20.31	90% Adjusted Gamma UCL (use when n<50)				21.56
192											
193					Lognormal GOF Test						
194					Shapiro Wilk Test Statistic	0.971	Shapiro Wilk Lognormal GOF Test				
195					5% Shapiro Wilk Critical Value	0.85	Data appear Lognormal at 5% Significance Level				
196					Lilliefors Test Statistic	0.135	Lilliefors Lognormal GOF Test				
197					5% Lilliefors Critical Value	0.267	Data appear Lognormal at 5% Significance Level				
198					Data appear Lognormal at 5% Significance Level						
199											
200					Lognormal Statistics						
201					Minimum of Logged Data	0.405	Mean of logged Data				2.096
202					Maximum of Logged Data	3.892	SD of logged Data				0.981
203											
204					Assuming Lognormal Distribution						
205					90% H-UCL	25.21	90% Chebyshev (MVUE) UCL				24.1
206					95% Chebyshev (MVUE) UCL	29.38	97.5% Chebyshev (MVUE) UCL				36.72
207					99% Chebyshev (MVUE) UCL	51.14					
208											
209					Nonparametric Distribution Free UCL Statistics						
210					Data appear to follow a Discernible Distribution at 5% Significance Level						
211											
212					Nonparametric Distribution Free UCLs						

213					90% CLT UCL	18.4				90% Jackknife UCL	18.79
214					90% Standard Bootstrap UCL	18.25				90% Bootstrap-t UCL	29.11
215					90% Hall's Bootstrap UCL	55.04				90% Percentile Bootstrap UCL	18.05
216					90% BCA Bootstrap UCL	20.06					
217					90% Chebyshev(Mean, Sd) UCL	25.87				95% Chebyshev(Mean, Sd) UCL	31.77
218					97.5% Chebyshev(Mean, Sd) UCL	39.97				99% Chebyshev(Mean, Sd) UCL	56.07
219											
220					Suggested UCL to Use						
221					Recommendation Provided only for 95% Confidence Coeficient						
222											
223											
224	6										
225											
226					General Statistics						
227					Total Number of Observations	4				Number of Distinct Observations	4
228										Number of Missing Observations	7
229					Minimum	2				Mean	25.85
230					Maximum	93				Median	4.2
231					SD	44.79				Std. Error of Mean	22.39
232					Coefficient of Variation	1.733				Skewness	1.995
233											
234					Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use						
235					guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.						
236					For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).						
237					Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.0						
238											
239					Normal GOF Test						
240					Shapiro Wilk Test Statistic	0.657				Shapiro Wilk GOF Test	
241					5% Shapiro Wilk Critical Value	0.748				Data Not Normal at 5% Significance Level	
242					Lilliefors Test Statistic	0.428				Lilliefors GOF Test	
243					5% Lilliefors Critical Value	0.443				Data appear Normal at 5% Significance Level	
244					Data appear Approximate Normal at 5% Significance Level						
245											
246					Assuming Normal Distribution						
247					90% Normal UCL					90% UCLs (Adjusted for Skewness)	
248					90% Student's-t UCL	62.52				90% Adjusted-CLT UCL (Chen-1995)	70.5
249										90% Modified-t UCL (Johnson-1978)	66.25
250											
251					Gamma GOF Test						
252					A-D Test Statistic	0.657				Anderson-Darling Gamma GOF Test	
253					5% A-D Critical Value	0.681				Detected data appear Gamma Distributed at 5% Significance Level	
254					K-S Test Statistic	0.409				Kolmogrov-Smirnoff Gamma GOF Test	
255					5% K-S Critical Value	0.41				Detected data appear Gamma Distributed at 5% Significance Level	
256					Detected data appear Gamma Distributed at 5% Significance Level						
257											
258					Gamma Statistics						
259					k hat (MLE)	0.51				k star (bias corrected MLE)	0.294
260					Theta hat (MLE)	50.73				Theta star (bias corrected MLE)	87.91
261					nu hat (MLE)	4.076				nu star (bias corrected)	2.352
262					MLE Mean (bias corrected)	25.85				MLE Sd (bias corrected)	47.67
263										Approximate Chi Square Value (0.1)	0.344
264					Adjusted Level of Significance	N/A				Adjusted Chi Square Value	N/A
265											

	A	B	C	D	E	F	G	H	I	J	K	L
266	Assuming Gamma Distribution											
267	90% Approximate Gamma UCL (use when n>=50))					176.5	90% Adjusted Gamma UCL (use when n<50)					N/A
268												
269	Lognormal GOF Test											
270	Shapiro Wilk Test Statistic					0.827	Shapiro Wilk Lognormal GOF Test					
271	5% Shapiro Wilk Critical Value					0.748	Data appear Lognormal at 5% Significance Level					
272	Lilliefors Test Statistic					0.333	Lilliefors Lognormal GOF Test					
273	5% Lilliefors Critical Value					0.443	Data appear Lognormal at 5% Significance Level					
274	Data appear Lognormal at 5% Significance Level											
275												
276	Lognormal Statistics											
277	Minimum of Logged Data					0.693	Mean of logged Data					2.009
278	Maximum of Logged Data					4.533	SD of logged Data					1.727
279												
280	Assuming Lognormal Distribution											
281	90% H-UCL					16615	90% Chebyshev (MVUE) UCL					59.3
282	95% Chebyshev (MVUE) UCL					77.52	97.5% Chebyshev (MVUE) UCL					102.8
283	99% Chebyshev (MVUE) UCL					152.5						
284												
285	Nonparametric Distribution Free UCL Statistics											
286	Data appear to follow a Discernible Distribution at 5% Significance Level											
287												
288	Nonparametric Distribution Free UCLs											
289	90% CLT UCL					54.55	90% Jackknife UCL					62.52
290	90% Standard Bootstrap UCL					N/A	90% Bootstrap-t UCL					N/A
291	90% Hall's Bootstrap UCL					N/A	90% Percentile Bootstrap UCL					N/A
292	90% BCA Bootstrap UCL					N/A						
293	90% Chebyshev(Mean, Sd) UCL					93.03	95% Chebyshev(Mean, Sd) UCL					123.5
294	97.5% Chebyshev(Mean, Sd) UCL					165.7	99% Chebyshev(Mean, Sd) UCL					248.7
295												
296	Suggested UCL to Use											
297	Recommendation Provided only for 95% Confidence Coeficient											
298												

1	UCL Statistics for Uncensored Full Data Sets										
2											
3	User Selected Options										
4	Date/Time of Computation			5/18/2015 2:26:49 PM							
5	From File			Data for ProUCL Lead samples.xls							
6	Full Precision			OFF							
7	Confidence Coefficient			95%							
8	Number of Bootstrap Operations			2000							
9											
10											
11	1a										
12											
13	General Statistics										
14	Total Number of Observations				10		Number of Distinct Observations				10
15							Number of Missing Observations				0
16	Minimum				4.1		Mean				54.01
17	Maximum				180		Median				39.5
18	SD				55.49		Std. Error of Mean				17.55
19	Coefficient of Variation				1.027		Skewness				1.391
20											
21	Normal GOF Test										
22	Shapiro Wilk Test Statistic				0.84		Shapiro Wilk GOF Test				
23	5% Shapiro Wilk Critical Value				0.842		Data Not Normal at 5% Significance Level				
24	Lilliefors Test Statistic				0.224		Lilliefors GOF Test				
25	5% Lilliefors Critical Value				0.28		Data appear Normal at 5% Significance Level				
26	Data appear Approximate Normal at 5% Significance Level										
27											
28	Assuming Normal Distribution										
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)				
30	95% Student's-t UCL				86.17		95% Adjusted-CLT UCL (Chen-1995)				91.12
31							95% Modified-t UCL (Johnson-1978)				87.46
32											
33	Gamma GOF Test										
34	A-D Test Statistic				0.353		Anderson-Darling Gamma GOF Test				
35	5% A-D Critical Value				0.748		Detected data appear Gamma Distributed at 5% Significance Level				
36	K-S Test Statistic				0.186		Kolmogrov-Smirnoff Gamma GOF Test				
37	5% K-S Critical Value				0.274		Detected data appear Gamma Distributed at 5% Significance Level				
38	Detected data appear Gamma Distributed at 5% Significance Level										
39											
40	Gamma Statistics										
41	k hat (MLE)				0.999		k star (bias corrected MLE)				0.766
42	Theta hat (MLE)				54.08		Theta star (bias corrected MLE)				70.53
43	nu hat (MLE)				19.97		nu star (bias corrected)				15.31
44	MLE Mean (bias corrected)				54.01		MLE Sd (bias corrected)				61.72
45							Approximate Chi Square Value (0.05)				7.481
46	Adjusted Level of Significance				0.0267		Adjusted Chi Square Value				6.552
47											
48	Assuming Gamma Distribution										
49	95% Approximate Gamma UCL (use when n>=50))				110.6		95% Adjusted Gamma UCL (use when n<50)				126.2
50											
51	Lognormal GOF Test										
52	Shapiro Wilk Test Statistic				0.944		Shapiro Wilk Lognormal GOF Test				
53	5% Shapiro Wilk Critical Value				0.842		Data appear Lognormal at 5% Significance Level				

54					Lilliefors Test Statistic	0.201	Lilliefors Lognormal GOF Test					
55					5% Lilliefors Critical Value	0.28	Data appear Lognormal at 5% Significance Level					
56	Data appear Lognormal at 5% Significance Level											
57												
58	Lognormal Statistics											
59					Minimum of Logged Data	1.411				Mean of logged Data		3.411
60					Maximum of Logged Data	5.193				SD of logged Data		1.23
61												
62	Assuming Lognormal Distribution											
63					95% H-UCL	281.5				90% Chebyshev (MVUE) UCL		128.7
64					95% Chebyshev (MVUE) UCL	160.9				97.5% Chebyshev (MVUE) UCL		205.5
65					99% Chebyshev (MVUE) UCL	293.3						
66												
67	Nonparametric Distribution Free UCL Statistics											
68	Data appear to follow a Discernible Distribution at 5% Significance Level											
69												
70	Nonparametric Distribution Free UCLs											
71					95% CLT UCL	82.87				95% Jackknife UCL		86.17
72					95% Standard Bootstrap UCL	81.55				95% Bootstrap-t UCL		98.06
73					95% Hall's Bootstrap UCL	105.2				95% Percentile Bootstrap UCL		83.3
74					95% BCA Bootstrap UCL	88.2						
75					90% Chebyshev(Mean, Sd) UCL	106.6				95% Chebyshev(Mean, Sd) UCL		130.5
76					97.5% Chebyshev(Mean, Sd) UCL	163.6				99% Chebyshev(Mean, Sd) UCL		228.6
77												
78	Suggested UCL to Use											
79					95% Student's-t UCL	86.17						
80												
81	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
82	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
83	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
84	For additional insight the user may want to consult a statistician.											
85												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			5/18/2015 12:30:40 PM								
5	From File			Data for ProUCL Lead samples.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	1											
12												
13	General Statistics											
14	Total Number of Observations					11	Number of Distinct Observations					11
15							Number of Missing Observations					0
16	Minimum					4.1	Mean					3413
17	Maximum					37000	Median					58
18	SD					11140	Std. Error of Mean					3359
19	Coefficient of Variation					3.264	Skewness					3.316
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic					0.349	Shapiro Wilk GOF Test					
23	5% Shapiro Wilk Critical Value					0.85	Data Not Normal at 5% Significance Level					
24	Lilliefors Test Statistic					0.523	Lilliefors GOF Test					
25	5% Lilliefors Critical Value					0.267	Data Not Normal at 5% Significance Level					
26	Data Not Normal at 5% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL					9500	95% Adjusted-CLT UCL (Chen-1995)					12526
31							95% Modified-t UCL (Johnson-1978)					10060
32												
33	Gamma GOF Test											
34	A-D Test Statistic					2.359	Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value					0.877	Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic					0.446	Kolmogrov-Smirnoff Gamma GOF Test					
37	5% K-S Critical Value					0.283	Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)					0.183	k star (bias corrected MLE)					0.194
42	Theta hat (MLE)					18653	Theta star (bias corrected MLE)					17622
43	nu hat (MLE)					4.025	nu star (bias corrected)					4.261
44	MLE Mean (bias corrected)					3413	MLE Sd (bias corrected)					7755
45							Approximate Chi Square Value (0.05)					0.827
46	Adjusted Level of Significance					0.0278	Adjusted Chi Square Value					0.615
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL (use when n>=50))					17576	95% Adjusted Gamma UCL (use when n<50)					23655
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic					0.798	Shapiro Wilk Lognormal GOF Test					
53	5% Shapiro Wilk Critical Value					0.85	Data Not Lognormal at 5% Significance Level					

54				Lilliefors Test Statistic		0.234		Lilliefors Lognormal GOF Test				
55				5% Lilliefors Critical Value		0.267		Data appear Lognormal at 5% Significance Level				
56				Data appear Approximate Lognormal at 5% Significance Level								
57												
58				Lognormal Statistics								
59				Minimum of Logged Data		1.411		Mean of logged Data				4.057
60				Maximum of Logged Data		10.52		SD of logged Data				2.44
61												
62				Assuming Lognormal Distribution								
63				95% H-UCL		132653		90% Chebyshev (MVUE) UCL				1846
64				95% Chebyshev (MVUE) UCL		2424		97.5% Chebyshev (MVUE) UCL				3226
65				99% Chebyshev (MVUE) UCL		4801						
66												
67				Nonparametric Distribution Free UCL Statistics								
68				Data appear to follow a Discernible Distribution at 5% Significance Level								
69												
70				Nonparametric Distribution Free UCLs								
71				95% CLT UCL		8937		95% Jackknife UCL				9500
72				95% Standard Bootstrap UCL		8627		95% Bootstrap-t UCL				1144963
73				95% Hall's Bootstrap UCL		493381		95% Percentile Bootstrap UCL				10123
74				95% BCA Bootstrap UCL		13482						
75				90% Chebyshev(Mean, Sd) UCL		13489		95% Chebyshev(Mean, Sd) UCL				18053
76				97.5% Chebyshev(Mean, Sd) UCL		24388		99% Chebyshev(Mean, Sd) UCL				36832
77												
78				Suggested UCL to Use								
79				99% Chebyshev (Mean, Sd) UCL		36832						
80												
81				Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.								
82				These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)								
83				and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.								
84				For additional insight the user may want to consult a statistician.								
85												
86												
87	2											
88												
89				General Statistics								
90				Total Number of Observations		11		Number of Distinct Observations				11
91								Number of Missing Observations				0
92				Minimum		4.2		Mean				33.5
93				Maximum		180		Median				8.3
94				SD		55.85		Std. Error of Mean				16.84
95				Coefficient of Variation		1.667		Skewness				2.289
96												
97				Normal GOF Test								
98				Shapiro Wilk Test Statistic		0.594		Shapiro Wilk GOF Test				
99				5% Shapiro Wilk Critical Value		0.85		Data Not Normal at 5% Significance Level				
100				Lilliefors Test Statistic		0.384		Lilliefors GOF Test				
101				5% Lilliefors Critical Value		0.267		Data Not Normal at 5% Significance Level				
102				Data Not Normal at 5% Significance Level								
103												
104				Assuming Normal Distribution								
105				95% Normal UCL				95% UCLs (Adjusted for Skewness)				
106				95% Student's-t UCL		64.02		95% Adjusted-CLT UCL (Chen-1995)				73.62

	A	B	C	D	E	F	G	H	I	J	K	L
107							95% Modified-t UCL (Johnson-1978)					65.96
108												
109					Gamma GOF Test							
110					A-D Test Statistic	1.425	Anderson-Darling Gamma GOF Test					
111					5% A-D Critical Value	0.768	Data Not Gamma Distributed at 5% Significance Level					
112					K-S Test Statistic	0.36	Kolmogrov-Smirnoff Gamma GOF Test					
113					5% K-S Critical Value	0.266	Data Not Gamma Distributed at 5% Significance Level					
114					Data Not Gamma Distributed at 5% Significance Level							
115												
116					Gamma Statistics							
117					k hat (MLE)	0.673	k star (bias corrected MLE)					0.55
118					Theta hat (MLE)	49.78	Theta star (bias corrected MLE)					60.9
119					nu hat (MLE)	14.81	nu star (bias corrected)					12.1
120					MLE Mean (bias corrected)	33.5	MLE Sd (bias corrected)					45.17
121							Approximate Chi Square Value (0.05)					5.294
122					Adjusted Level of Significance	0.0278	Adjusted Chi Square Value					4.581
123												
124					Assuming Gamma Distribution							
125					95% Approximate Gamma UCL (use when n>=50))	76.58	95% Adjusted Gamma UCL (use when n<50)					88.49
126												
127					Lognormal GOF Test							
128					Shapiro Wilk Test Statistic	0.807	Shapiro Wilk Lognormal GOF Test					
129					5% Shapiro Wilk Critical Value	0.85	Data Not Lognormal at 5% Significance Level					
130					Lilliefors Test Statistic	0.294	Lilliefors Lognormal GOF Test					
131					5% Lilliefors Critical Value	0.267	Data Not Lognormal at 5% Significance Level					
132					Data Not Lognormal at 5% Significance Level							
133												
134					Lognormal Statistics							
135					Minimum of Logged Data	1.435	Mean of logged Data					2.609
136					Maximum of Logged Data	5.193	SD of logged Data					1.258
137												
138					Assuming Lognormal Distribution							
139					95% H-UCL	121.3	90% Chebyshev (MVUE) UCL					59.58
140					95% Chebyshev (MVUE) UCL	74.42	97.5% Chebyshev (MVUE) UCL					95.01
141					99% Chebyshev (MVUE) UCL	135.5						
142												
143					Nonparametric Distribution Free UCL Statistics							
144					Data do not follow a Discernible Distribution (0.05)							
145												
146					Nonparametric Distribution Free UCLs							
147					95% CLT UCL	61.2	95% Jackknife UCL					64.02
148					95% Standard Bootstrap UCL	60.3	95% Bootstrap-t UCL					199.9
149					95% Hall's Bootstrap UCL	240.4	95% Percentile Bootstrap UCL					62.92
150					95% BCA Bootstrap UCL	79.8						
151					90% Chebyshev(Mean, Sd) UCL	84.02	95% Chebyshev(Mean, Sd) UCL					106.9
152					97.5% Chebyshev(Mean, Sd) UCL	138.7	99% Chebyshev(Mean, Sd) UCL					201.1
153												
154					Suggested UCL to Use							
155					95% Chebyshev (Mean, Sd) UCL	106.9						
156												
157	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
158	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
159	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											

	A	B	C	D	E	F	G	H	I	J	K	L
160	For additional insight the user may want to consult a statistician.											
161												
162												
163	3											
164												
165	General Statistics											
166	Total Number of Observations					11	Number of Distinct Observations					11
167							Number of Missing Observations					0
168	Minimum					1.5	Mean					12.83
169	Maximum					49	Median					8.4
170	SD					14.41	Std. Error of Mean					4.346
171	Coefficient of Variation					1.124	Skewness					2.019
172												
173	Normal GOF Test											
174	Shapiro Wilk Test Statistic					0.721	Shapiro Wilk GOF Test					
175	5% Shapiro Wilk Critical Value					0.85	Data Not Normal at 5% Significance Level					
176	Lilliefors Test Statistic					0.313	Lilliefors GOF Test					
177	5% Lilliefors Critical Value					0.267	Data Not Normal at 5% Significance Level					
178	Data Not Normal at 5% Significance Level											
179												
180	Assuming Normal Distribution											
181	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
182	95% Student's-t UCL					20.7	95% Adjusted-CLT UCL (Chen-1995)					22.8
183							95% Modified-t UCL (Johnson-1978)					21.15
184												
185	Gamma GOF Test											
186	A-D Test Statistic					0.491	Anderson-Darling Gamma GOF Test					
187	5% A-D Critical Value					0.747	Detected data appear Gamma Distributed at 5% Significance Level					
188	K-S Test Statistic					0.194	Kolmogrov-Smirnoff Gamma GOF Test					
189	5% K-S Critical Value					0.261	Detected data appear Gamma Distributed at 5% Significance Level					
190	Detected data appear Gamma Distributed at 5% Significance Level											
191												
192	Gamma Statistics											
193	k hat (MLE)					1.239	k star (bias corrected MLE)					0.962
194	Theta hat (MLE)					10.35	Theta star (bias corrected MLE)					13.34
195	nu hat (MLE)					27.25	nu star (bias corrected)					21.15
196	MLE Mean (bias corrected)					12.83	MLE Sd (bias corrected)					13.08
197							Approximate Chi Square Value (0.05)					11.71
198	Adjusted Level of Significance					0.0278	Adjusted Chi Square Value					10.58
199												
200	Assuming Gamma Distribution											
201	95% Approximate Gamma UCL (use when n>=50)					23.18	95% Adjusted Gamma UCL (use when n<50)					25.65
202												
203	Lognormal GOF Test											
204	Shapiro Wilk Test Statistic					0.971	Shapiro Wilk Lognormal GOF Test					
205	5% Shapiro Wilk Critical Value					0.85	Data appear Lognormal at 5% Significance Level					
206	Lilliefors Test Statistic					0.135	Lilliefors Lognormal GOF Test					
207	5% Lilliefors Critical Value					0.267	Data appear Lognormal at 5% Significance Level					
208	Data appear Lognormal at 5% Significance Level											
209												
210	Lognormal Statistics											
211	Minimum of Logged Data					0.405	Mean of logged Data					2.096
212	Maximum of Logged Data					3.892	SD of logged Data					0.981

	Assuming Lognormal Distribution			
	95% H-UCL	33.03	90% Chebyshev (MVUE) UCL	24.1
	95% Chebyshev (MVUE) UCL	29.38	97.5% Chebyshev (MVUE) UCL	36.72
	99% Chebyshev (MVUE) UCL	51.14		
	Nonparametric Distribution Free UCL Statistics			
	Data appear to follow a Discernible Distribution at 5% Significance Level			
	Nonparametric Distribution Free UCLs			
	95% CLT UCL	19.98	95% Jackknife UCL	20.7
	95% Standard Bootstrap UCL	19.7	95% Bootstrap-t UCL	39.4
	95% Hall's Bootstrap UCL	60.74	95% Percentile Bootstrap UCL	20.36
	95% BCA Bootstrap UCL	22.76		
	90% Chebyshev(Mean, Sd) UCL	25.87	95% Chebyshev(Mean, Sd) UCL	31.77
	97.5% Chebyshev(Mean, Sd) UCL	39.97	99% Chebyshev(Mean, Sd) UCL	56.07
	Suggested UCL to Use			
	95% Adjusted Gamma UCL	25.65		

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)
and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.
For additional insight the user may want to consult a statistician.

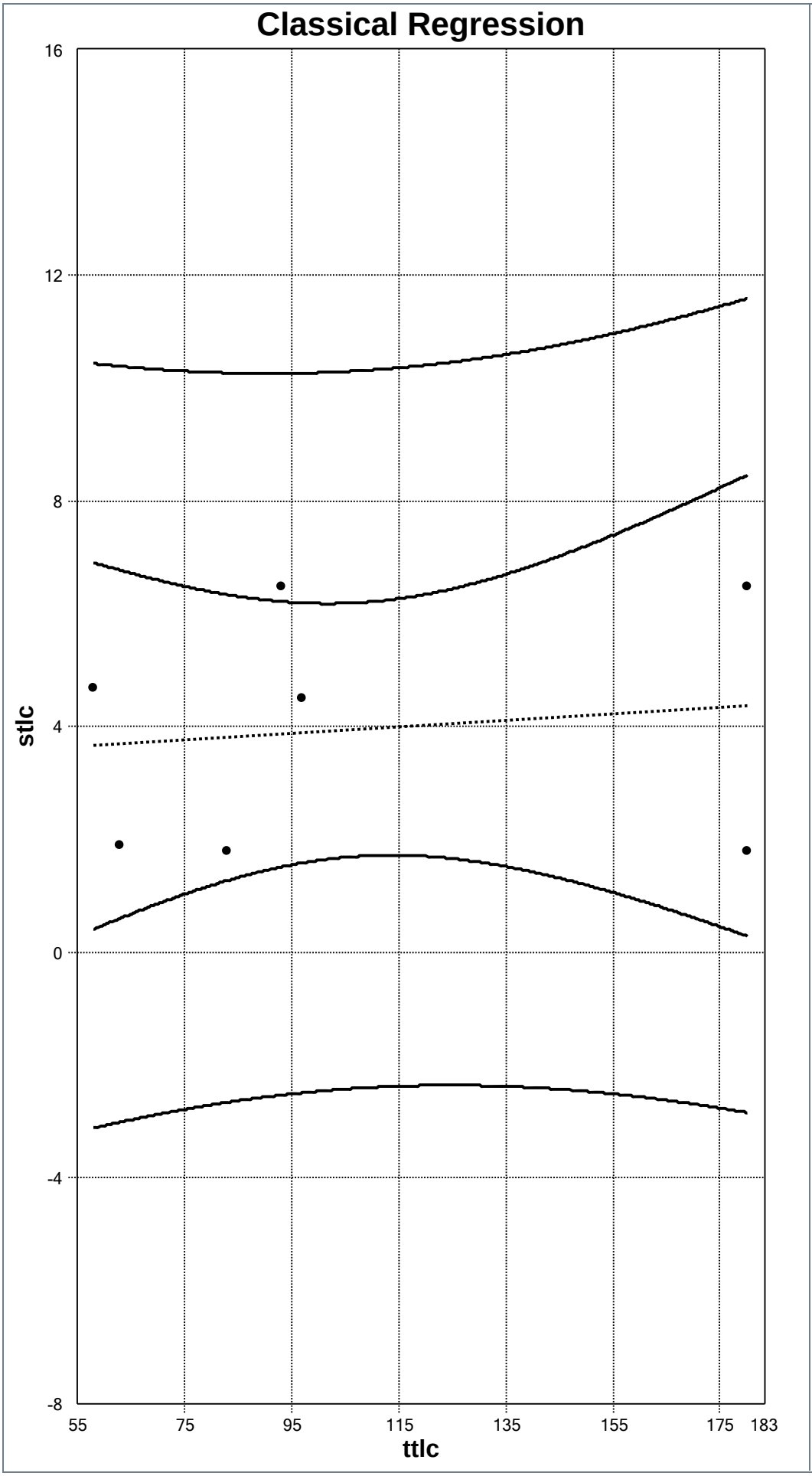
6

General Statistics			
Total Number of Observations	4	Number of Distinct Observations	4
		Number of Missing Observations	7
Minimum	2	Mean	25.85
Maximum	93	Median	4.2
SD	44.79	Std. Error of Mean	22.39
Coefficient of Variation	1.733	Skewness	1.995

Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use
guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).
Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.0

Normal GOF Test			
Shapiro Wilk Test Statistic	0.657	Shapiro Wilk GOF Test	
5% Shapiro Wilk Critical Value	0.748	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.428	Lilliefors GOF Test	
5% Lilliefors Critical Value	0.443	Data appear Normal at 5% Significance Level	
Data appear Approximate Normal at 5% Significance Level			
Assuming Normal Distribution			
95% Normal UCL		95% UCLs (Adjusted for Skewness)	
95% Student's-t UCL	78.55	95% Adjusted-CLT UCL (Chen-1995)	86.55
		95% Modified-t UCL (Johnson-1978)	82.27

	A	B	C	D	E	F	G	H	I	J	K	L
266					Gamma GOF Test							
267					A-D Test Statistic	0.657	Anderson-Darling Gamma GOF Test					
268					5% A-D Critical Value	0.681	Detected data appear Gamma Distributed at 5% Significance Level					
269					K-S Test Statistic	0.409	Kolmogrov-Smirnoff Gamma GOF Test					
270					5% K-S Critical Value	0.41	Detected data appear Gamma Distributed at 5% Significance Level					
271					Detected data appear Gamma Distributed at 5% Significance Level							
272												
273					Gamma Statistics							
274					k hat (MLE)	0.51	k star (bias corrected MLE)					0.294
275					Theta hat (MLE)	50.73	Theta star (bias corrected MLE)					87.91
276					nu hat (MLE)	4.076	nu star (bias corrected)					2.352
277					MLE Mean (bias corrected)	25.85	MLE Sd (bias corrected)					47.67
278							Approximate Chi Square Value (0.05)					0.21
279					Adjusted Level of Significance	N/A	Adjusted Chi Square Value					N/A
280												
281					Assuming Gamma Distribution							
282					95% Approximate Gamma UCL (use when n>=50))	290.1	95% Adjusted Gamma UCL (use when n<50)					N/A
283												
284					Lognormal GOF Test							
285					Shapiro Wilk Test Statistic	0.827	Shapiro Wilk Lognormal GOF Test					
286					5% Shapiro Wilk Critical Value	0.748	Data appear Lognormal at 5% Significance Level					
287					Lilliefors Test Statistic	0.333	Lilliefors Lognormal GOF Test					
288					5% Lilliefors Critical Value	0.443	Data appear Lognormal at 5% Significance Level					
289					Data appear Lognormal at 5% Significance Level							
290												
291					Lognormal Statistics							
292					Minimum of Logged Data	0.693	Mean of logged Data					2.009
293					Maximum of Logged Data	4.533	SD of logged Data					1.727
294												
295					Assuming Lognormal Distribution							
296					95% H-UCL	2690958	90% Chebyshev (MVUE) UCL					59.3
297					95% Chebyshev (MVUE) UCL	77.52	97.5% Chebyshev (MVUE) UCL					102.8
298					99% Chebyshev (MVUE) UCL	152.5						
299												
300					Nonparametric Distribution Free UCL Statistics							
301					Data appear to follow a Discernible Distribution at 5% Significance Level							
302												
303					Nonparametric Distribution Free UCLs							
304					95% CLT UCL	62.68	95% Jackknife UCL					78.55
305					95% Standard Bootstrap UCL	N/A	95% Bootstrap-t UCL					N/A
306					95% Hall's Bootstrap UCL	N/A	95% Percentile Bootstrap UCL					N/A
307					95% BCA Bootstrap UCL	N/A						
308					90% Chebyshev(Mean, Sd) UCL	93.03	95% Chebyshev(Mean, Sd) UCL					123.5
309					97.5% Chebyshev(Mean, Sd) UCL	165.7	99% Chebyshev(Mean, Sd) UCL					248.7
310												
311					Suggested UCL to Use							
312					95% Student's-t UCL	78.55						
313												
314					Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.							
315					These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)							
316					and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.							
317					For additional insight the user may want to consult a statistician.							
318												



OLS

n	7
Slope	0.0059
Intercept	3.3256
R-sq	0.0200
R	0.1413
Scale Estimate	2.3139
P-value (Reg)	0.7625
P-value (Slope)	0.7625

Mann-Kendall

S	1.0000
SD of S	6.5064
Standardized S	0.0000
Approximate p-value	0.5000

Confidence Coefficient	0.9500

Red = Prediction Interval

Green = Confidence Interval

TPH Diesel and Motor Oil

90% and 95% UCL

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation			5/18/2015 8:49:41 AM								
5	From File			Data for ProUCL.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			90%								
8	Number of Bootstrap Operations			2000								
9												
10	TPHdc											
11												
12	General Statistics											
13	Total Number of Observations					25	Number of Distinct Observations					23
14	Number of Detects					23	Number of Non-Detects					2
15	Number of Distinct Detects					22	Number of Distinct Non-Detects					1
16	Minimum Detect					1.3	Minimum Non-Detect					1
17	Maximum Detect					420	Maximum Non-Detect					1
18	Variance Detects					10802	Percent Non-Detects					8%
19	Mean Detects					49.52	SD Detects					103.9
20	Median Detects					6.7	CV Detects					2.099
21	Skewness Detects					2.914	Kurtosis Detects					8.256
22	Mean of Logged Detects					2.417	SD of Logged Detects					1.687
23												
24	Normal GOF Test on Detects Only											
25	Shapiro Wilk Test Statistic					0.516	Shapiro Wilk GOF Test					
26	5% Shapiro Wilk Critical Value					0.914	Detected Data Not Normal at 5% Significance Level					
27	Lilliefors Test Statistic					0.333	Lilliefors GOF Test					
28	5% Lilliefors Critical Value					0.185	Detected Data Not Normal at 5% Significance Level					
29	Detected Data Not Normal at 5% Significance Level											
30												
31	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
32	Mean					45.64	Standard Error of Mean					20.12
33	SD					98.38	90% KM (BCA) UCL					68.43
34	90% KM (t) UCL					72.15	90% KM (Percentile Bootstrap) UCL					71.56
35	90% KM (z) UCL					71.42	90% KM Bootstrap t UCL					111.1
36	90% KM Chebyshev UCL					106	95% KM Chebyshev UCL					133.3
37	97.5% KM Chebyshev UCL					171.3	99% KM Chebyshev UCL					245.8
38												
39	Gamma GOF Tests on Detected Observations Only											
40	A-D Test Statistic					1.694	Anderson-Darling GOF Test					
41	5% A-D Critical Value					0.819	Detected Data Not Gamma Distributed at 5% Significance Level					
42	K-S Test Statistic					0.256	Kolmogrov-Smirnoff GOF					
43	5% K-S Critical Value					0.193	Detected Data Not Gamma Distributed at 5% Significance Level					
44	Detected Data Not Gamma Distributed at 5% Significance Level											
45												
46	Gamma Statistics on Detected Data Only											
47	k hat (MLE)					0.437	k star (bias corrected MLE)					0.409
48	Theta hat (MLE)					113.4	Theta star (bias corrected MLE)					121.1
49	nu hat (MLE)					20.09	nu star (bias corrected)					18.8
50	MLE Mean (bias corrected)					49.52	MLE Sd (bias corrected)					77.45
51												
52	Gamma Kaplan-Meier (KM) Statistics											
53	k hat (KM)					0.215	nu hat (KM)					10.76

	A–E	F	G–K	L
54	Approximate Chi Square Value (10.76, α)	5.405	Adjusted Chi Square Value (10.76, β)	5.205
55	90% Gamma Approximate KM-UCL (use when n>=50)	90.84	90% Gamma Adjusted KM-UCL (use when n<50)	94.33
56				
57	Gamma ROS Statistics using Imputed Non-Detects			
58	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs			
59	GROS may not be used when kstar of detected data is small such as < 0.1			
60	For such situations, GROS method tends to yield inflated values of UCLs and BTVs			
61	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates			
62	Minimum	0.01	Mean	45.56
63	Maximum	420	Median	5.5
64	SD	100.4	CV	2.205
65	k hat (MLE)	0.343	k star (bias corrected MLE)	0.329
66	Theta hat (MLE)	132.7	Theta star (bias corrected MLE)	138.5
67	nu hat (MLE)	17.17	nu star (bias corrected)	16.44
68	MLE Mean (bias corrected)	45.56	MLE Sd (bias corrected)	79.44
69			Adjusted Level of Significance (β)	0.0883
70	Approximate Chi Square Value (16.44, α)	9.654	Adjusted Chi Square Value (16.44, β)	9.378
71	90% Gamma Approximate UCL (use when n>=50)	77.59	90% Gamma Adjusted UCL (use when n<50)	79.88
72				
73	Lognormal GOF Test on Detected Observations Only			
74	Shapiro Wilk Test Statistic	0.924	Shapiro Wilk GOF Test	
75	5% Shapiro Wilk Critical Value	0.914	Detected Data appear Lognormal at 5% Significance Level	
76	Lilliefors Test Statistic	0.157	Lilliefors GOF Test	
77	5% Lilliefors Critical Value	0.185	Detected Data appear Lognormal at 5% Significance Level	
78	Detected Data appear Lognormal at 5% Significance Level			
79				
80	Lognormal ROS Statistics Using Imputed Non-Detects			
81	Mean in Original Scale	45.57	Mean in Log Scale	2.098
82	SD in Original Scale	100.4	SD in Log Scale	1.958
83	90% t UCL (assumes normality of ROS data)	72.05	90% Percentile Bootstrap UCL	71.75
84	90% BCA Bootstrap UCL	85.08	90% Bootstrap t UCL	108.1
85	90% H-UCL (Log ROS)	174		
86				
87	UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed			
88	KM Mean (logged)	2.223	90% H-UCL (KM -Log)	98.94
89	KM SD (logged)	1.713	90% Critical H Value (KM-Log)	2.583
90	KM Standard Error of Mean (logged)	0.35		
91				
92	DL/2 Statistics			
93	DL/2 Normal		DL/2 Log-Transformed	
94	Mean in Original Scale	45.6	Mean in Log Scale	2.168
95	SD in Original Scale	100.4	SD in Log Scale	1.831
96	90% t UCL (Assumes normality)	72.07	90% H-Stat UCL	128.8
97	DL/2 is not a recommended method, provided for comparisons and historical reasons			
98				
99	Nonparametric Distribution Free UCL Statistics			
100	Detected Data appear Lognormal Distributed at 5% Significance Level			
101				
102	Suggested UCL to Use			
103	Recommendation Provided only for 95% Confidence Coefficient			
104				
105	TPHmoc			
106				

	A	B	C	D	E	F	G	H	I	J	K	L
107	General Statistics											
108	Total Number of Observations					25	Number of Distinct Observations					12
109	Number of Detects					11	Number of Non-Detects					14
110	Number of Distinct Detects					11	Number of Distinct Non-Detects					1
111	Minimum Detect					53	Minimum Non-Detect					50
112	Maximum Detect					1300	Maximum Non-Detect					50
113	Variance Detects					138886	Percent Non-Detects					56%
114	Mean Detects					368.3	SD Detects					372.7
115	Median Detects					250	CV Detects					1.012
116	Skewness Detects					1.725	Kurtosis Detects					3.384
117	Mean of Logged Detects					5.433	SD of Logged Detects					1.068
118												
119	Normal GOF Test on Detects Only											
120	Shapiro Wilk Test Statistic					0.812	Shapiro Wilk GOF Test					
121	5% Shapiro Wilk Critical Value					0.85	Detected Data Not Normal at 5% Significance Level					
122	Lilliefors Test Statistic					0.199	Lilliefors GOF Test					
123	5% Lilliefors Critical Value					0.267	Detected Data appear Normal at 5% Significance Level					
124	Detected Data appear Approximate Normal at 5% Significance Level											
125												
126	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
127	Mean					190	Standard Error of Mean					59.52
128	SD					283.8	90% KM (BCA) UCL					267.5
129	90% KM (t) UCL					268.5	90% KM (Percentile Bootstrap) UCL					264.9
130	90% KM (z) UCL					266.3	90% KM Bootstrap t UCL					334
131	90% KM Chebyshev UCL					368.6	95% KM Chebyshev UCL					449.5
132	97.5% KM Chebyshev UCL					561.7	99% KM Chebyshev UCL					782.3
133												
134	Gamma GOF Tests on Detected Observations Only											
135	A-D Test Statistic					0.327	Anderson-Darling GOF Test					
136	5% A-D Critical Value					0.748	Detected data appear Gamma Distributed at 5% Significance Level					
137	K-S Test Statistic					0.184	Kolmogrov-Smirnoff GOF					
138	5% K-S Critical Value					0.261	Detected data appear Gamma Distributed at 5% Significance Level					
139	Detected data appear Gamma Distributed at 5% Significance Level											
140												
141	Gamma Statistics on Detected Data Only											
142	k hat (MLE)					1.19	k star (bias corrected MLE)					0.926
143	Theta hat (MLE)					309.4	Theta star (bias corrected MLE)					397.6
144	nu hat (MLE)					26.19	nu star (bias corrected)					20.38
145	MLE Mean (bias corrected)					368.3	MLE Sd (bias corrected)					382.6
146												
147	Gamma Kaplan-Meier (KM) Statistics											
148	k hat (KM)					0.449	nu hat (KM)					22.43
149	Approximate Chi Square Value (22.43, α)					14.39	Adjusted Chi Square Value (22.43, β)					14.04
150	90% Gamma Approximate KM-UCL (use when n>=50)					296.3	90% Gamma Adjusted KM-UCL (use when n<50)					303.5
151												
152	Gamma ROS Statistics using Imputed Non-Detects											
153	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
154	GROS may not be used when kstar of detected data is small such as < 0.1											
155	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
156	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
157	Minimum					0.01	Mean					162
158	Maximum					1300	Median					0.01
159	SD					304.4	CV					1.879

	A	B	C	D	E	F	G	H	I	J	K	L
160					k hat (MLE)	0.146				k star (bias corrected MLE)		0.155
161					Theta hat (MLE)	1108				Theta star (bias corrected MLE)		1043
162					nu hat (MLE)	7.311				nu star (bias corrected)		7.767
163					MLE Mean (bias corrected)	162				MLE Sd (bias corrected)		411.2
164										Adjusted Level of Significance (β)		0.0883
165					Approximate Chi Square Value (7.77, α)	3.335				Adjusted Chi Square Value (7.77, β)		3.184
166					90% Gamma Approximate UCL (use when n>=50)	377.4				90% Gamma Adjusted UCL (use when n<50)		395.3
167												
168					Lognormal GOF Test on Detected Observations Only							
169					Shapiro Wilk Test Statistic	0.936				Shapiro Wilk GOF Test		
170					5% Shapiro Wilk Critical Value	0.85				Detected Data appear Lognormal at 5% Significance Level		
171					Lilliefors Test Statistic	0.173				Lilliefors GOF Test		
172					5% Lilliefors Critical Value	0.267				Detected Data appear Lognormal at 5% Significance Level		
173					Detected Data appear Lognormal at 5% Significance Level							
174												
175					Lognormal ROS Statistics Using Imputed Non-Detects							
176					Mean in Original Scale	170.2				Mean in Log Scale		3.617
177					SD in Original Scale	300.1				SD in Log Scale		1.979
178					90% t UCL (assumes normality of ROS data)	249.3				90% Percentile Bootstrap UCL		245
179					90% BCA Bootstrap UCL	274.3				90% Bootstrap t UCL		299
180					90% H-UCL (Log ROS)	847.6						
181												
182					UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed							
183					KM Mean (logged)	4.581				90% H-UCL (KM -Log)		239.8
184					KM SD (logged)	1.013				90% Critical H Value (KM-Log)		1.863
185					KM Standard Error of Mean (logged)	0.212						
186												
187					DL/2 Statistics							
188					DL/2 Normal					DL/2 Log-Transformed		
189					Mean in Original Scale	176				Mean in Log Scale		4.193
190					SD in Original Scale	296.8				SD in Log Scale		1.317
191					90% t UCL (Assumes normality)	254.3				90% H-Stat UCL		281.3
192					DL/2 is not a recommended method, provided for comparisons and historical reasons							
193												
194					Nonparametric Distribution Free UCL Statistics							
195					Detected Data appear Approximate Normal Distributed at 5% Significance Level							
196												
197					Suggested UCL to Use							
198					Recommendation Provided only for 95% Confidence Coefficient							
199												

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects											
2												
3	User Selected Options											
4	Date/Time of Computation			5/18/2015 8:48:57 AM								
5	From File			Data for ProUCL.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10	TPHdc											
11												
12	General Statistics											
13	Total Number of Observations					25	Number of Distinct Observations					23
14	Number of Detects					23	Number of Non-Detects					2
15	Number of Distinct Detects					22	Number of Distinct Non-Detects					1
16	Minimum Detect					1.3	Minimum Non-Detect					1
17	Maximum Detect					420	Maximum Non-Detect					1
18	Variance Detects					10802	Percent Non-Detects					8%
19	Mean Detects					49.52	SD Detects					103.9
20	Median Detects					6.7	CV Detects					2.099
21	Skewness Detects					2.914	Kurtosis Detects					8.256
22	Mean of Logged Detects					2.417	SD of Logged Detects					1.687
23												
24	Normal GOF Test on Detects Only											
25	Shapiro Wilk Test Statistic					0.516	Shapiro Wilk GOF Test					
26	5% Shapiro Wilk Critical Value					0.914	Detected Data Not Normal at 5% Significance Level					
27	Lilliefors Test Statistic					0.333	Lilliefors GOF Test					
28	5% Lilliefors Critical Value					0.185	Detected Data Not Normal at 5% Significance Level					
29	Detected Data Not Normal at 5% Significance Level											
30												
31	Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs											
32	Mean					45.64	Standard Error of Mean					20.12
33	SD					98.38	95% KM (BCA) UCL					83.49
34	95% KM (t) UCL					80.06	95% KM (Percentile Bootstrap) UCL					81.77
35	95% KM (z) UCL					78.73	95% KM Bootstrap t UCL					146.1
36	90% KM Chebyshev UCL					106	95% KM Chebyshev UCL					133.3
37	97.5% KM Chebyshev UCL					171.3	99% KM Chebyshev UCL					245.8
38												
39	Gamma GOF Tests on Detected Observations Only											
40	A-D Test Statistic					1.694	Anderson-Darling GOF Test					
41	5% A-D Critical Value					0.819	Detected Data Not Gamma Distributed at 5% Significance Level					
42	K-S Test Statistic					0.256	Kolmogrov-Smirnoff GOF					
43	5% K-S Critical Value					0.193	Detected Data Not Gamma Distributed at 5% Significance Level					
44	Detected Data Not Gamma Distributed at 5% Significance Level											
45												
46	Gamma Statistics on Detected Data Only											
47	k hat (MLE)					0.437	k star (bias corrected MLE)					0.409
48	Theta hat (MLE)					113.4	Theta star (bias corrected MLE)					121.1
49	nu hat (MLE)					20.09	nu star (bias corrected)					18.8
50	MLE Mean (bias corrected)					49.52	MLE Sd (bias corrected)					77.45
51												
52	Gamma Kaplan-Meier (KM) Statistics											
53	k hat (KM)					0.215	nu hat (KM)					10.76

	A	B	C	D	E	F	G	H	I	J	K	L
54	Approximate Chi Square Value (10.76, α)					4.421	Adjusted Chi Square Value (10.76, β)					4.147
55	95% Gamma Approximate KM-UCL (use when n>=50)					111.1	95% Gamma Adjusted KM-UCL (use when n<50)					118.4
56												
57	Gamma ROS Statistics using Imputed Non-Detects											
58	GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs											
59	GROS may not be used when kstar of detected data is small such as < 0.1											
60	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
61	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
62	Minimum					0.01	Mean					45.56
63	Maximum					420	Median					5.5
64	SD					100.4	CV					2.205
65	k hat (MLE)					0.343	k star (bias corrected MLE)					0.329
66	Theta hat (MLE)					132.7	Theta star (bias corrected MLE)					138.5
67	nu hat (MLE)					17.17	nu star (bias corrected)					16.44
68	MLE Mean (bias corrected)					45.56	MLE Sd (bias corrected)					79.44
69							Adjusted Level of Significance (β)					0.0395
70	Approximate Chi Square Value (16.44, α)					8.276	Adjusted Chi Square Value (16.44, β)					7.882
71	95% Gamma Approximate UCL (use when n>=50)					90.52	95% Gamma Adjusted UCL (use when n<50)					95.04
72												
73	Lognormal GOF Test on Detected Observations Only											
74	Shapiro Wilk Test Statistic					0.924	Shapiro Wilk GOF Test					
75	5% Shapiro Wilk Critical Value					0.914	Detected Data appear Lognormal at 5% Significance Level					
76	Lilliefors Test Statistic					0.157	Lilliefors GOF Test					
77	5% Lilliefors Critical Value					0.185	Detected Data appear Lognormal at 5% Significance Level					
78	Detected Data appear Lognormal at 5% Significance Level											
79												
80	Lognormal ROS Statistics Using Imputed Non-Detects											
81	Mean in Original Scale					45.57	Mean in Log Scale					2.098
82	SD in Original Scale					100.4	SD in Log Scale					1.958
83	95% t UCL (assumes normality of ROS data)					79.94	95% Percentile Bootstrap UCL					83.61
84	95% BCA Bootstrap UCL					93.93	95% Bootstrap t UCL					167.4
85	95% H-UCL (Log ROS)					264.5						
86												
87	UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed											
88	KM Mean (logged)					2.223	95% H-UCL (KM -Log)					137.3
89	KM SD (logged)					1.713	95% Critical H Value (KM-Log)					3.521
90	KM Standard Error of Mean (logged)					0.35						
91												
92	DL/2 Statistics											
93	DL/2 Normal						DL/2 Log-Transformed					
94	Mean in Original Scale					45.6	Mean in Log Scale					2.168
95	SD in Original Scale					100.4	SD in Log Scale					1.831
96	95% t UCL (Assumes normality)					79.96	95% H-Stat UCL					186.5
97	DL/2 is not a recommended method, provided for comparisons and historical reasons											
98												
99	Nonparametric Distribution Free UCL Statistics											
100	Detected Data appear Lognormal Distributed at 5% Significance Level											
101												
102	Suggested UCL to Use											
103	99% KM (Chebyshev) UCL					245.8						
104												
105	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
106	Recommendations are based upon data size, data distribution, and skewness.											

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

TPHmoc

General Statistics			
Total Number of Observations	25	Number of Distinct Observations	12
Number of Detects	11	Number of Non-Detects	14
Number of Distinct Detects	11	Number of Distinct Non-Detects	1
Minimum Detect	53	Minimum Non-Detect	50
Maximum Detect	1300	Maximum Non-Detect	50
Variance Detects	138886	Percent Non-Detects	56%
Mean Detects	368.3	SD Detects	372.7
Median Detects	250	CV Detects	1.012
Skewness Detects	1.725	Kurtosis Detects	3.384
Mean of Logged Detects	5.433	SD of Logged Detects	1.068

Normal GOF Test on Detects Only		
Shapiro Wilk Test Statistic	0.812	Shapiro Wilk GOF Test
5% Shapiro Wilk Critical Value	0.85	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.199	Lilliefors GOF Test
5% Lilliefors Critical Value	0.267	Detected Data appear Normal at 5% Significance Level

Detected Data appear Approximate Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs			
Mean	190	Standard Error of Mean	59.52
SD	283.8	95% KM (BCA) UCL	299.3
95% KM (t) UCL	291.9	95% KM (Percentile Bootstrap) UCL	290.9
95% KM (z) UCL	287.9	95% KM Bootstrap t UCL	384.7
90% KM Chebyshev UCL	368.6	95% KM Chebyshev UCL	449.5
97.5% KM Chebyshev UCL	561.7	99% KM Chebyshev UCL	782.3

Gamma GOF Tests on Detected Observations Only		
A-D Test Statistic	0.327	Anderson-Darling GOF Test
5% A-D Critical Value	0.748	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.184	Kolmogrov-Smirnoff GOF
5% K-S Critical Value	0.261	Detected data appear Gamma Distributed at 5% Significance Level

Detected data appear Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only			
k hat (MLE)	1.19	k star (bias corrected MLE)	0.926
Theta hat (MLE)	309.4	Theta star (bias corrected MLE)	397.6
nu hat (MLE)	26.19	nu star (bias corrected)	20.38
MLE Mean (bias corrected)	368.3	MLE Sd (bias corrected)	382.6

Gamma Kaplan-Meier (KM) Statistics			
k hat (KM)	0.449	nu hat (KM)	22.43
Approximate Chi Square Value (22.43, α)	12.66	Adjusted Chi Square Value (22.43, β)	12.16
95% Gamma Approximate KM-UCL (use when n>=50)	336.7	95% Gamma Adjusted KM-UCL (use when n<50)	350.5

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detected data is small such as < 0.1

	A	B	C	D	E	F	G	H	I	J	K	L
160	For such situations, GROS method tends to yield inflated values of UCLs and BTVs											
161	For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates											
162					Minimum	0.01				Mean		162
163					Maximum	1300				Median		0.01
164					SD	304.4				CV		1.879
165					k hat (MLE)	0.146				k star (bias corrected MLE)		0.155
166					Theta hat (MLE)	1108				Theta star (bias corrected MLE)		1043
167					nu hat (MLE)	7.311				nu star (bias corrected)		7.767
168					MLE Mean (bias corrected)	162				MLE Sd (bias corrected)		411.2
169										Adjusted Level of Significance (β)		0.0395
170					Approximate Chi Square Value (7.77, α)	2.601				Adjusted Chi Square Value (7.77, β)		2.401
171					95% Gamma Approximate UCL (use when n>=50)	483.9				95% Gamma Adjusted UCL (use when n<50)		524.2
172												
173	Lognormal GOF Test on Detected Observations Only											
174					Shapiro Wilk Test Statistic	0.936				Shapiro Wilk GOF Test		
175					5% Shapiro Wilk Critical Value	0.85				Detected Data appear Lognormal at 5% Significance Level		
176					Lilliefors Test Statistic	0.173				Lilliefors GOF Test		
177					5% Lilliefors Critical Value	0.267				Detected Data appear Lognormal at 5% Significance Level		
178	Detected Data appear Lognormal at 5% Significance Level											
179												
180	Lognormal ROS Statistics Using Imputed Non-Detects											
181					Mean in Original Scale	170.2				Mean in Log Scale		3.617
182					SD in Original Scale	300.1				SD in Log Scale		1.979
183					95% t UCL (assumes normality of ROS data)	272.9				95% Percentile Bootstrap UCL		274.7
184					95% BCA Bootstrap UCL	310.5				95% Bootstrap t UCL		353.7
185					95% H-UCL (Log ROS)	1299						
186												
187	UCLs using Lognormal Distribution and KM Estimates when Detected data are Lognormally Distributed											
188					KM Mean (logged)	4.581				95% H-UCL (KM -Log)		274.2
189					KM SD (logged)	1.013				95% Critical H Value (KM-Log)		2.512
190					KM Standard Error of Mean (logged)	0.212						
191												
192	DL/2 Statistics											
193			DL/2 Normal							DL/2 Log-Transformed		
194					Mean in Original Scale	176				Mean in Log Scale		4.193
195					SD in Original Scale	296.8				SD in Log Scale		1.317
196					95% t UCL (Assumes normality)	277.6				95% H-Stat UCL		345.8
197	DL/2 is not a recommended method, provided for comparisons and historical reasons											
198												
199	Nonparametric Distribution Free UCL Statistics											
200	Detected Data appear Approximate Normal Distributed at 5% Significance Level											
201												
202	Suggested UCL to Use											
203					95% KM (t) UCL	291.9				95% KM (Percentile Bootstrap) UCL		290.9
204												
205	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
206	Recommendations are based upon data size, data distribution, and skewness.											
207	These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).											
208	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.											
209												