Resolution Consultants
A Joint Venture of AECOM & EnSafe
1500 Wells Fargo Building
440 Monticello Avenue
Norfolk, Virginia 23510

24 May 2016

VIA ELECTRONIC MAIL

Mr. Arne Olsen
Remedial Project Manager
Naval Facilities Engineering Command, Southeast
IPT Gulf Coast OPUE3
Building 135 — Naval Air Station Jacksonville
Jacksonville, Florida 32212

RE: Supplemental Environmental Investigation
April 2016 Sampling Results — Naval Station Guantanamo Bay, Cuba
Contract No. N62470-11-D-8013
Contract Task Order JMB5

Dear Mr. Olsen:

Resolution Consultants performed a Supplemental Environmental Investigation (EI) of the Office of Military Commissions Camp Justice, also known as Area of Operation Patriot, at United States Naval Station Guantanamo Bay (NS GTMO), Cuba. The work was conducted at the request of Naval Facilities Engineering Command Southeast (NAVFAC SE), under Comprehensive Long-term Environmental Action Navy Contract No. N62470-11-D-8013, Contract Task Order JMB5, Statement of Work Number SCSR1501 (Modification 2).

This letter identifies sample dates and locations, presents analytical laboratory results, and discusses data validation and other activities associated with the collection of mercury vapor samples for indoor air, the analysis of background soil samples for target analyte list (TAL) metals excluding mercury, collection of soil samples for target compound list (TCL) semi-volatile organic compound (SVOC) and polynuclear aromatic hydrocarbon (PAH) analysis, and the collection of wipe samples for polychlorinated biphenyl (PCB) analysis.

Resolution Consultants mobilized to NS GTMO on 15 April 2016 and conducted sampling activities through 23 April 2016. This supplemental investigation was based on results of the EI conducted 9 through 15 October 2015, as documented in the *Environmental Investigation Report* (Resolution Consultants April 2016).

RESOLUTION
CONSULTANTS

MERCURY VAPOR SAMPLING

Mercury vapor sampling was conducted in Building AV-29 because a portion of the building was historically used as a dental surgery/clinic and the potential exists for mercury (which was historically used in fillings) to have been released inside the building. Mercury vapor sampling was completed on 16, 17, and 22 April 2016.

Sample Locations

As shown on Figures 1 and 2 in Attachment A, sorbent tubes were used to collect 19 indoor air samples to determine the presence of mercury vapor in Building AV-29.

Sample Collection

Prior to deploying sorbent tubes, the heating, ventilating, and air conditioning systems at each location were operating at occupational levels. Prior to sample collection, each air sampling pump was calibrated to a flow rate of 0.2 liter per minute using a rotameter to measure the upstream airflow as it entered the cartridge. Once the calibration was complete, a new tube was connected to the air sampling pump and the starting time was recorded. Samples were collected for approximately 8 hours (480 minutes).

At the end of each sampling period, pumps were turned off, stop times were recorded, and caps were placed on each end of the tube. Each tube was labeled with a sample identification number and air sampling pumps were recalibrated to verify the flow rate. Three field blanks were collected in the same manner as the samples, except that no air was drawn through the tubes.

Analytical Results

Sorbent tubes were submitted to Galson Laboratories, Inc., where they were analyzed using modified National Institute for Occupational Safety and Health Method 6009. Table 1 lists sample identification numbers, sample locations, and analytical results. The Galson Laboratories analytical report is included in Attachment B.

Table 1
Mercury Vapor Analytical Results
Naval Station Guantanamo Bay, Cuba

Sample ID	Building AV-29 Room	Sample Date	Result (mg/m^3)
AV29IAHG16-5	16	4-16-2016	<0.00031
AV29IAHG17-5	17	4-16-2016	<0.00031
AV29IAHG18-5	18	4-16-2016	<0.00031
AV29IAHG15-5	15	4-16-2016	<0.00031
AV29IAHG14-5	14	4-16-2016	<0.00031
AV29IAHG13-5	13	4-16-2016	<0.00031
AV29IAHG12-5	12	4-16-2016	<0.00031
AV29IAHG11-5	11	4-16-2016	<0.00031
AV29IAHGDV-5	DV	4-16-2016	<0.00031
AV29IAHG22-5	22	4-17-2016	<0.00031
AV29IAHG5-5	5	4-17-2016	<0.00031
AV29IAHG23-5	23	4-17-2016	<0.00031
AV29IAHG4-5	4	4-17-2016	<0.00031
AV29IAHG3-5	3	4-17-2016	<0.00031
AV29IAHG24-5	24	4-17-2016	<0.00031
AV29IAHG2-5	2	4-17-2016	<0.00031
AV29IAHGBLK-1	Field Blank	4-17-2016	<0.00031
AV29IAHGLB-2	Lobby	4-22-2016	<0.00031
AV29IAHGBLK-2	Field Blank	4-22-2016	<0.00031
AV29IAHGBLK-3	Field Blank	4-22-2016	<0.00031
AV29IAHG27-5	27	4-22-2016	<0.00031
AV29IAHG10-2	10	4-22-2016	<0.00031

Note:
mg/m^3 = milligrams per cubic meter

SOIL SAMPLING

Background Sample Locations

Background surface soil samples were collected on 15 October 2015 from 14 locations shown on Figure 3.[1] These locations were randomly selected in an area believed to be representative of NS GTMO background conditions. These points were spatially located using a hand-held global positioning system device (Trimble).

[1] The background samples were collected during the EI and were held by NS GTMO Public Works Division pending analysis of Camp Justice soil samples.

Supplemental Sample Locations

Supplemental surface soil samples were collected on 21 April 2016 from 9 locations shown on Figure 4. These supplemental soil samples were collected to confirm the SVOC/PAH concentrations detected in samples collected from locations M2 and M3 during the October 2015 EI.

Sample Collection

Soil samples were collected using stainless steel hand implements (spoon, trowel, and rake). Collected soil was first sieved and homogenized through a stainless steel colander or screen, then accumulated in a stainless-steel bowl. This process facilitated removal of pebbles, rock fragments, plant material, and some asphalt pieces. The soil sieving process resulted in a brown granular sample matrix for analyses.

During sampling, the soil in the bowl was inspected by visual and olfactory observations and the resulting descriptions were recorded on sampling data sheets or field log book. Descriptions of the soils sampled are included in Table 2. Following inspection, the soil in the bowl was then transferred to the sample jars. Each sample jar was labeled with the alphanumeric sample numbering system, time, date, and requested analysis. Once collected, samples for SVOC/PAH analysis were immediately processed and preserved by maintaining the samples at a maximum temperature of 4 degrees centigrade.

Table 2
Soil Sampling Summary
Naval Station Guantanamo Bay, Cuba

Sample Node	Sample Date	DUP	MS/ MSD	Soil Description
BS01	15 Oct 15			Brown silty clay with pebbles, dry.
BS02	15 Oct 15			Brown silty clay with pebbles, dry.
BS03	15 Oct 15	X		Brown silty clay with pebbles, dry.
BS04	15 Oct 15			Brown silty clay with pebbles, moist to slightly moist.
BS05	15 Oct 15			Brown silty clay with pebbles, slightly moist to moist.
BS06	15 Oct 15			Brown silty clay with pebbles, dry.
BS07	15 Oct 15			Brown silty clay with some pebbles, moist to slightly moist.
BS08	15 Oct 15			Brown silty clay, with some pebbles, dry.
BS09	15 Oct 15		X	Brown silty clay with some gravel and pebbles, dry.

Table 2
Soil Sampling Summary
Naval Station Guantanamo Bay, Cuba

Sample Node	Sample Date	DUP	MS/ MSD	Soil Description
BS10	15 Oct 15			Brown silty clay with pebbles and gravel, slightly moist.
BS11	15 Oct 15			Brown silty clay with pebbles, dry.
BS12	15 Oct 15			Brown clayey silty with gravel and pebbles, dry.
BS13	15 Oct 15			Brown silty clay with pebbles, dry.
BS14	15 Oct 15	X		Brown silt with trace of sand and clay with gravel and pebbles, dry.
M2-1	21 Apr 16			Brown silty clay with gravel fragments, dry.
M2-2	21 Apr 16			Brown silty sand with pebbles, dry.
M2-3	21 Apr 16	X		Gray sand mixed with crushed limestone aggregate and coral fragments, dry.
M2-4	21 Apr 16			Brown silty sand with crushed limestone aggregate and some coral fragments, dry.
M2-5	21 Apr 16			Reddish brown silty sand with pebbles and cobbles, dry.
M3-1	21 Apr 16			Brown silty sand with pebbles, dry.
M3-2	21 Apr 16			Reddish brown silty sand with gravel and asphalt fragments, dry.
M3-3	21 Apr 16			Brown silty sand with pebbles, dry.
M3-4	21 Apr 16			Light brown silty sandy clay with crushed limestone aggregate, dry.

Notes:
DUP = Duplicate Sample
MS/MSD = Matrix Spike/Matrix Spike Duplicate Sample

Equipment Decontamination

Prior to and between sampling locations, stainless steel soil sampling equipment was decontaminated according to previously submitted standard operating procedures. Decontamination was performed in plastic 5-gallon buckets, with investigation-derived waste solutions discharged to the NS GTMO sanitary sewer system.

Quality Control Samples

Quality Assurance (QA)/Quality Control (QC) samples were collected according to the frequency specified in the previously submitted *Final Work/Sampling Plan* (Resolution Consultants October 2015), which resulted in three field duplicate samples and two matrix spike/matrix spike duplicate samples submitted for analysis.

Analytical Results

Each primary and QA/QC soil sample was shipped to Test America Laboratories, Inc., for analysis. Background surface soil samples were analyzed for TAL metals (Method 6020A) excluding mercury, and the supplemental surface soil samples were analyzed for TCL SVOCs and PAHs (Method 8270D). Laboratory data reports are in Attachment B and summary tables for soil results are in Attachment C.

PCB WIPE SAMPLING

PCB wipe sampling was conducted in the two transformer rooms in Hangar AV-32 and in the transformer building adjacent to Hangar AV-32. PCB wipe sampling was completed on 18 April 2016.

Sample Locations

As shown on Figure 5 in Attachment A, 9 wipe samples and 1 field duplicate were collected to determine the presence of PCBs.

Sample Collection

Prior to sample collection, a 10-centimeter by 10-centimeter template was placed on the surface to delineate the area to be sampled. The delineated area was then blotted horizontally with one side of a hexane-soaked swab, then vertically blotted with the other side. The swab was then rolled into a tube and placed back into the sampling vial. Each vial was labeled with a sample identification number.

Analytical Results

The wipe samples were submitted to Test America Laboratories, where they were analyzed for PCBs (Method 8082A). Table 3 lists sample identification numbers and sample locations. Laboratory data reports are included in Attachment B and a summary table for wipe sampling results is in Attachment C.

Table 3
Polychlorinated Biphenyl Wipe Sample Summary
Naval Station Guantanamo Bay, Cuba

Sample ID	Hangar AV-32 Room	Sample Location
AV32WSWTR-1	West Transformer Room	East Wall
AV32WSWTR-2		North Wall
AV32WSWTR-3		Floor/East End
AV32WSTB-1	Transformer Building	South Wall
AV32WSTB-2		North Wall
AV32WSTB-3		Floor/North End
AV32WSETR-1	East Transformer Room	West Wall
AV32WSETR-2		North Wall
AV32WSETR-3		Floor/West End
AV32WSETR-3D		Duplicate/Floor/West End

DATA VERIFICATION AND VALIDATION

Data verification was performed to assess the completeness of laboratory data by reviewing chain-of-custody forms, laboratory sample logs, receipt condition reports, and laboratory deliverables. Data verification was performed on laboratory analytical data; 10 percent of the raw data (including instrument printouts) was manually validated. Laboratory data, provided in electronic format, was verified for accuracy prior to use and during the data validation process.

After receipt of the full data package and electronic deliverables, results were validated independently from the laboratory to assess data quality against criteria established in the analytical methods, United States Environmental Protection Agency (U.S. EPA) data validation guidelines (U.S. EPA August 2014), and *Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories Version 5.0* (DoD July 2013), where applicable. All results are considered usable by the project, according to U.S. EPA and DoD guidelines.

An electronic version of this report has been electronically mailed to the NAVFAC SE Contracting Officers Technical Representative.

Sincerely,

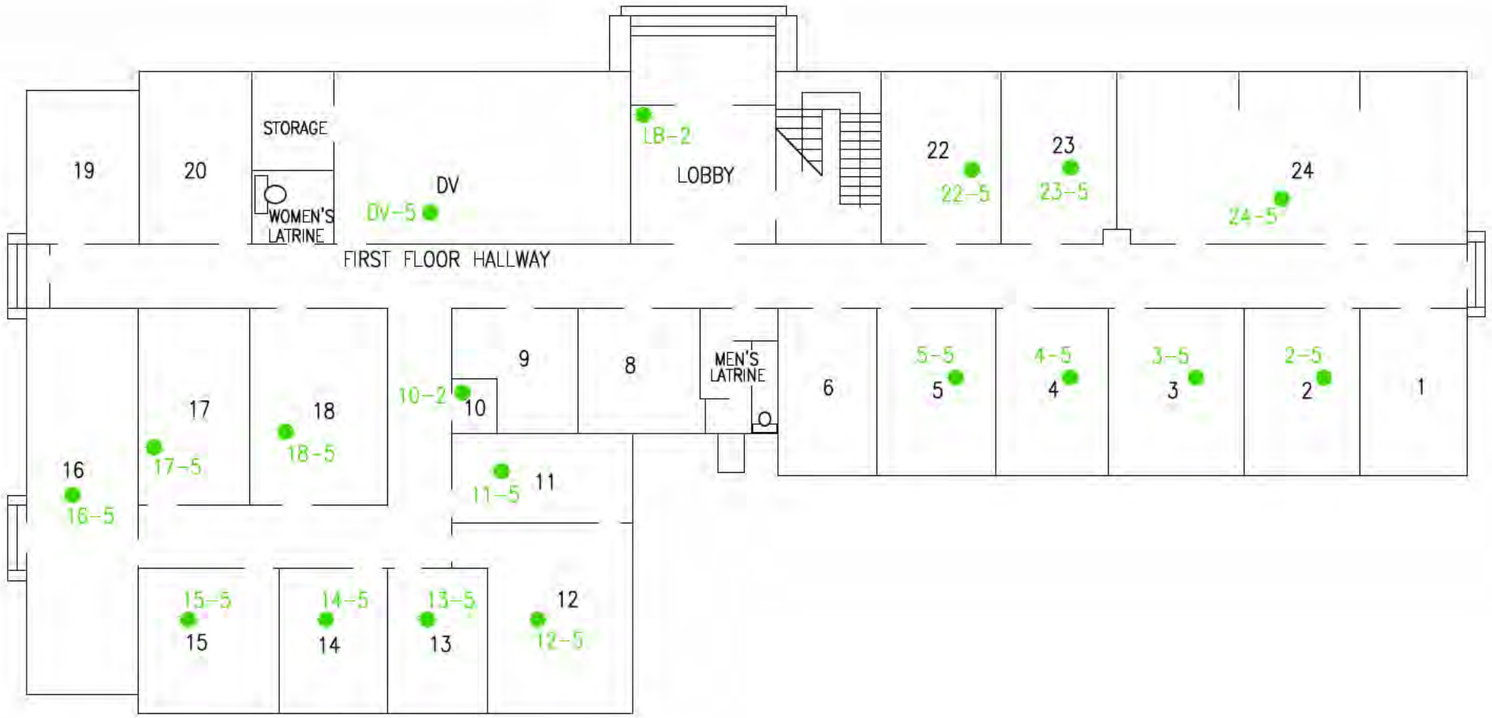
Resolution Consultants

By: Paul V. Stoddard, PG
Task Order Manager

Robert Thomas, CHMM
Environmental Scientist

Attachment A Figures
Attachment B Analytical Results
Attachment C Analytical Results Tables

Attachment A
Figures



AV29 FIRST FLOOR

NOTE:
ALL SAMPLE IDENTIFICATION NUMBERS BEGIN WITH AV29IAHG. THE FIGURE ONLY SHOWS THE LAST CHARACTERS OF THE SAMPLE IDENTIFICATION NUMBER FOR EACH LOCATION. FOR EXAMPLE, THE COMPLETE SAMPLE IDENTIFICATION NUMBER FOR SAMPLE 16-5 IS AV29IAHG16-5.

LEGEND
- STAIRS
- DOOR

SAMPLE TYPES
- MERCURY VAPOR

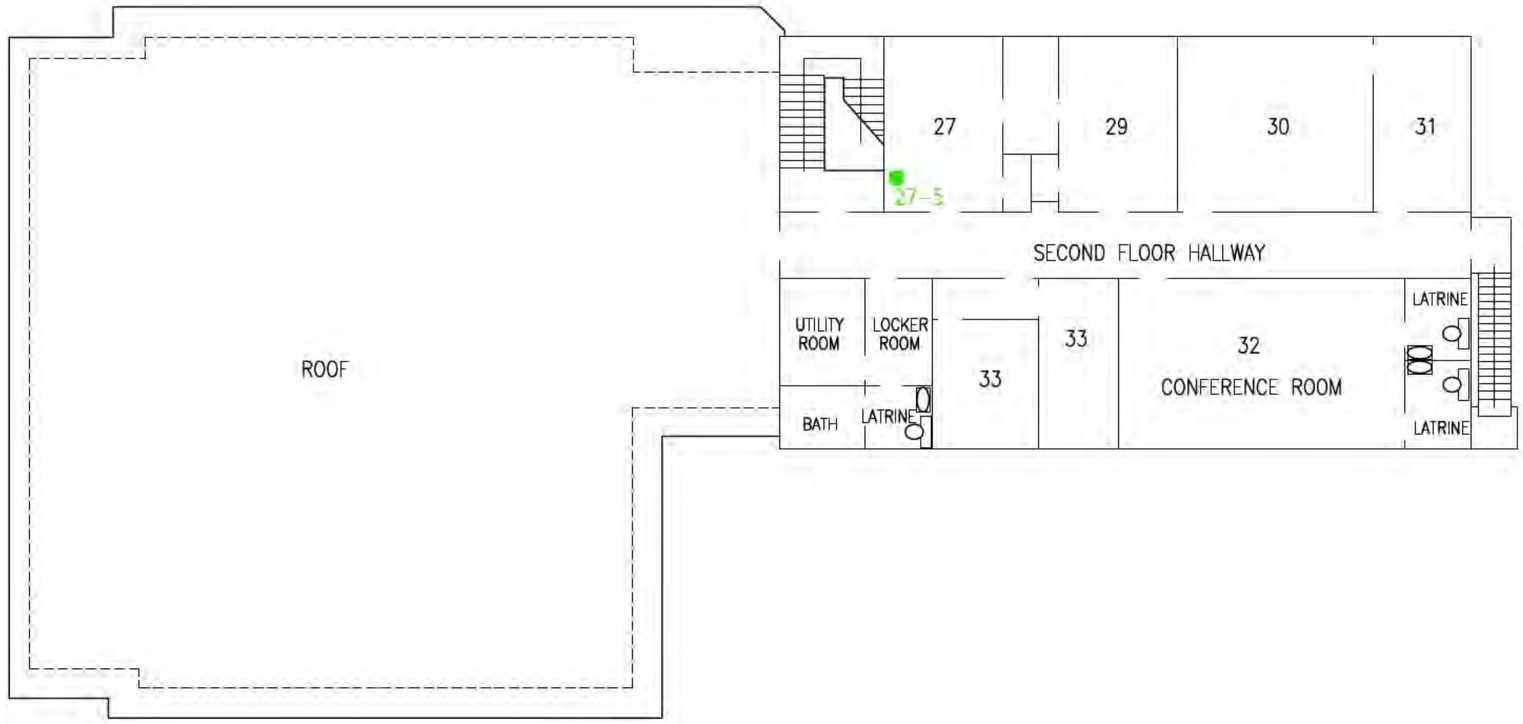
NOT TO SCALE

FIGURE 1
AV29 (FIRST FLOOR) FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command
RESOLUTION CONSULTANTS

REQUESTED BY: H.BRAUER	DATE: 05/23/16
DRAWN BY: BRONSON	DWG NAME: 17816_B004

Z:\CAD PROJECTS\17816 NS GTMO\Plans\17816_B004_AV 29_FLOOR PLANS_GTMO.dwg



AV29 SECOND FLOOR

NOTE:
ALL SAMPLE IDENTIFICATION NUMBERS BEGIN WITH AV29IAHG. THE FIGURE ONLY SHOWS THE LAST CHARACTERS OF THE SAMPLE IDENTIFICATION NUMBER FOR EACH LOCATION. FOR EXAMPLE, THE COMPLETE SAMPLE IDENTIFICATION NUMBER FOR SAMPLE 16-5 IS AV29IAHG16-5.

LEGEND

– STAIRS

– DOOR

SAMPLE TYPES

– MERCURY VAPOR

NOT TO SCALE

FIGURE 2
AV29 (SECOND FLOOR) FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

RESOLUTION CONSULTANTS

REQUESTED BY: H.BRAUER	DATE: 05/23/16
DRAWN BY: BRONSON	DWG NAME: 17816_B004

Z:\CAD PROJECTS\17816 NS GTMO\Plans\17816_B004_AV 29_FLOOR PLANS_GTMO.dwg

FIGURE 3
BACKGROUND SOIL SAMPLING
ENVIRONMENTAL INVESTIGATION
OFFICE OF MILITARY COMMISSIONS - CAMP JUSTICE
NAVAL STATION GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

RESOLUTION CONSULTANTS

REQUESTED BY: R. THOMAS	DATE: 5/20/2016
DRAWN BY: N. R NEHART	TASK ORDER NUMBER: JMB5

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

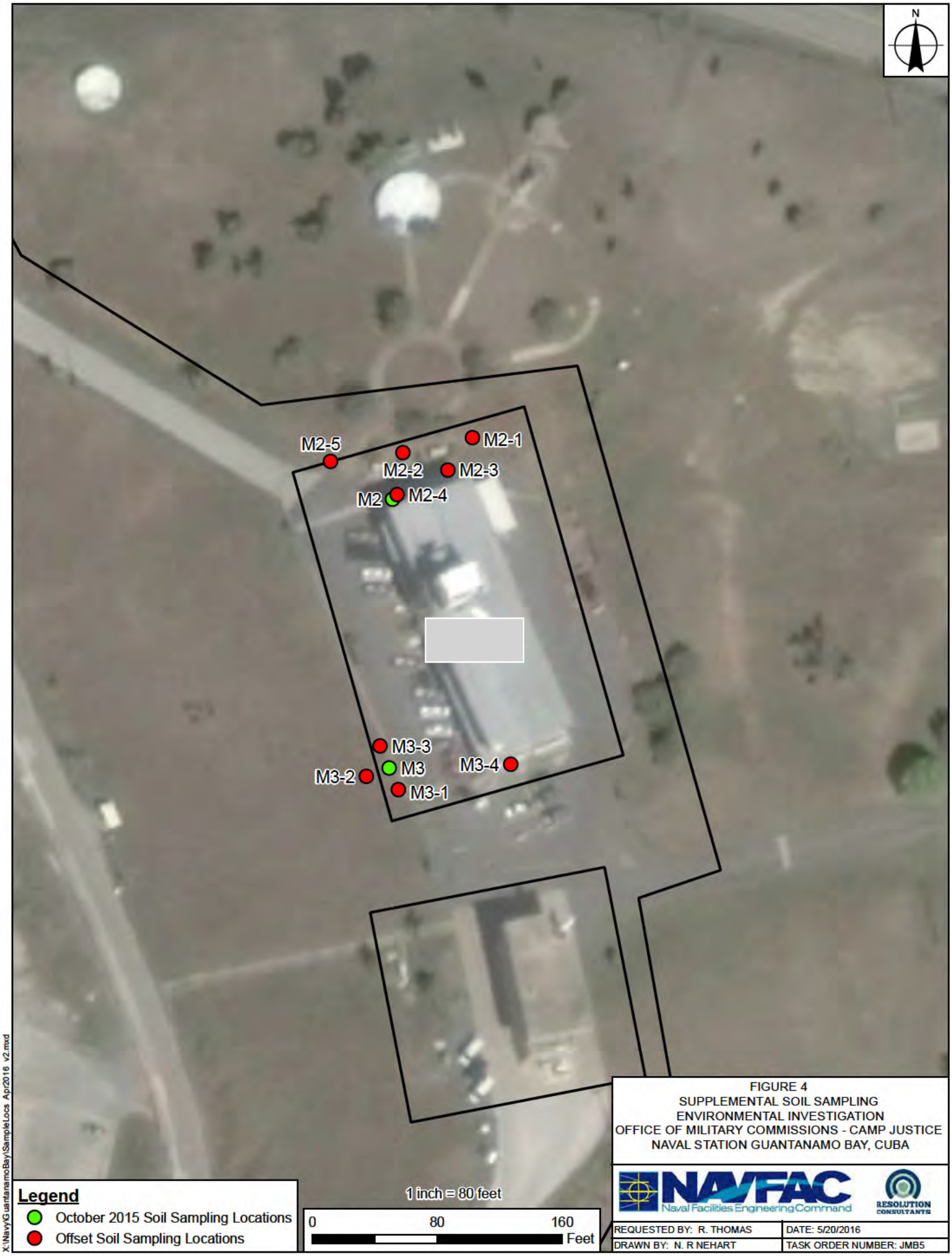


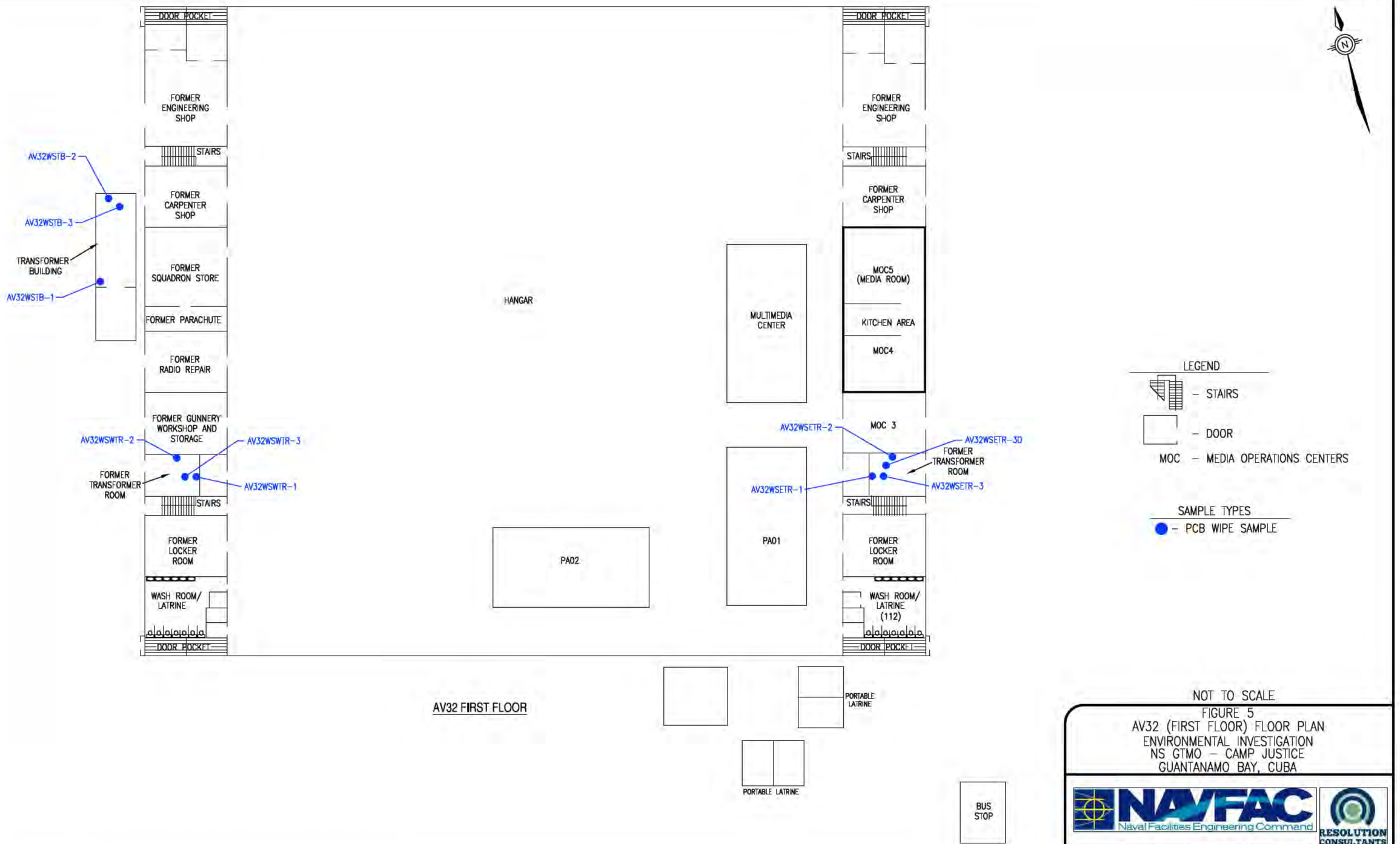
FIGURE 4
SUPPLEMENTAL SOIL SAMPLING
ENVIRONMENTAL INVESTIGATION
OFFICE OF MILITARY COMMISSIONS - CAMP JUSTICE
NAVAL STATION GUANTANAMO BAY, CUBA

NAVFAC Naval Facilities Engineering Command

RESOLUTION CONSULTANTS

REQUESTED BY: R. THOMAS	DATE: 5/20/2016
DRAWN BY: N. R NEHART	TASK ORDER NUMBER: JMB5

Service Layer Credits: Google Earth Pro Imagery - 12/1/2013



AV32 FIRST FLOOR

NOT TO SCALE

FIGURE 5
AV32 (FIRST FLOOR) FLOOR PLAN
ENVIRONMENTAL INVESTIGATION
NS GTMO – CAMP JUSTICE
GUANTANAMO BAY, CUBA

REQUESTED BY: H.BRAUER	DATE: 05/20/16
DRAWN BY: BRONSON	DWG NAME: 17816_B005

Z:\CAD PROJECTS\17816 NS GTMO\Plans\17816_B005_AV 32_FLOOR PLANS_GTMO.dwg

Attachment B
Analytical Results

B-1

Mercury Vapor

SGS Galson Data Package

Client : EnSafe-MEMPHIS, TN
Project : Site Investigation
SDG : L373533

Data package for samples received:
04/27/16

Ms. Tina Cantwell
EnSafe, Inc.
5724 Summer Trees Drive
Memphis, TN 38134

May 04, 2016

DOH ELAP #11626 Account# 13497 Login# L373533
AIHA-LAP #100324

Dear Ms. Cantwell:

Enclosed are the analytical results for the samples received by our laboratory on April 27, 2016. All test results meet the quality control requirements of AIHA-LAP and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Tonya Lancaster at (888) 432-5227, if you would like any additional information regarding this report. Thank you for using SGS Galson Laboratories.

Sincerely,

SGS Galson Laboratories

Lisa Swab
Laboratory Director

Enclosure(s)

Galson Laboratories, Inc. is now a part of SGS, the world's leading inspection, verification, testing, and certification company. As part of our transition to SGS, you will begin to see some formatting changes with reports that will improve the presentation of data and allow for the transition to the new logo.

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : EnSafe-MEMPHIS, TN
Site : GTMO, Cuba
Project No. : Site Investigation
Date Sampled : 16-APR-16 - 22-APR-16
Date Received : 27-APR-16

Account No.: 13497
Login No. : L373533

Date Analyzed : 28-APR-16
Report ID : 934483

Mercury

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
AV29IAHG16-5	L373533-1	96	<0.030	<0.00031
AV29IAHG17-5	L373533-2	96	<0.030	<0.00031
AV29IAHG18-5	L373533-3	96	<0.030	<0.00031
AV29IAHG15-5	L373533-4	96	<0.030	<0.00031
AV29IAHG14-5	L373533-5	96	<0.030	<0.00031
AV29IAHG13-5	L373533-6	96	<0.030	<0.00031
AV29IAHG12-5	L373533-7	96	<0.030	<0.00031
AV29IAHG11-5	L373533-8	96	<0.030	<0.00031
AV29IAHGDV-5	L373533-9	96	<0.030	<0.00031
AV29IAHG22-5	L373533-10	96	<0.030	<0.00031
AV29IAHG5-5	L373533-11	96	<0.030	<0.00031
AV29IAHG23-5	L373533-12	96	<0.030	<0.00031
AV29IAHG4-5	L373533-13	96	<0.030	<0.00031
AV29IAHG3-5	L373533-14	96	<0.030	<0.00031
AV29IAHG24-5	L373533-15	96	<0.030	<0.00031
AV29IAHG2-5	L373533-16	96	<0.030	<0.00031

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.030 ug
Analytical Method : mod. NIOSH 6009; CVAA TUBE
OSHA PEL : 0.1 mg/m3
Collection Media : 226-17-1A

Submitted by: pwl/keg
Approved by : keg
Date : 29-APR-16 NYS DOH # : 11626
Supervisor: KEG QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

SGS GALSON

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : EnSafe-MEMPHIS, TN
Site : GTMO, Cuba
Project No. : Site Investigation
Date Sampled : 16-APR-16 - 22-APR-16
Date Received : 27-APR-16

Account No.: 13497
Login No. : L373533

Date Analyzed : 28-APR-16
Report ID : 934483

Mercury

Sample ID	Lab ID	Air Vol liter	Total ug	Conc mg/m3
AV29IAHGBLK-1	L373533-17	NA	<0.030	NA
AV29IAHGLB-2	L373533-18	96	<0.030	<0.00031
AV29IAHGBLK-2	L373533-19	NA	<0.030	NA
AV29IAHGBLK-3	L373533-20	NA	<0.030	NA
AV29IAHG27-5	L373533-21	96	<0.030	<0.00031
AV29IAHG10-2	L373533-22	96	<0.030	<0.00031

COMMENTS: Please see attached lab footnote report for any applicable footnotes.

Level of quantitation: 0.030 ug
Analytical Method : mod. NIOSH 6009; CVAA TUBE
OSHA PEL : 0.1 mg/m3
Collection Media : 226-17-1A

Submitted by: pwl/keg
Approved by : keg
Date : 29-APR-16
Supervisor: KEG

NYS DOH # : 11626
QC by: CRD

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms NA -Not Applicable ND -Not Detected
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ppm -Parts per Million

LABORATORY FOOTNOTE REPORT

6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
FAX: (315) 437-0571
www.galsonlabs.com

Client Name : EnSafe-MEMPHIS, TN
Site : GTMO, Cuba
Project No. : Site Investigation

Date Sampled : 16-APR-16 - 22-APR-16 Account No.: 13497
Date Received: 27-APR-16 Login No. : L373533
Date Analyzed: 28-APR-16

Unless otherwise noted below, all quality control results associated with the samples were within established control limits or did not impact reported results.

Note: The findings recorded within this report were drawn from analysis of the sample(s) provided to the laboratory by the Client (or a third party acting at the Client's direction). The laboratory does not have control over the sampling process. The findings herein constitute no warranty of the samples' representativeness of any sampled environment and strictly relate to the samples as they were presented to the laboratory.

Unrounded results are carried through the calculations that yield the final result and the final result is rounded to the number of significant figures appropriate to the accuracy of the analytical method. Please note that results appearing in the columns preceeding the final result column may have been rounded and therefore, if carried through the calculations, may not yield an identical final result to the one reported.

The stated LOQs for each analyte represent the demonstrated LOQ concentrations prior to correction for desorption efficiency (if applicable).

Unless otherwise noted below, reported results have not been blank corrected for any field blank or method blank.

L373533 (Report ID: 934483):
Reported results reflect elemental analysis of the requested metals. Certain compounds may not be solubilized during digestion, resulting in data that is biased low.
SOPs: MT-SOP-20(6), MT-SOP-8(14)

L373533 (Report ID: 934483):
Accuracy and mean recovery data presented below is based on a 95% confidence interval (k=2). The estimated uncertainty applies to the media, technology, and SOP referenced in this report and does not account for the uncertainty associated with the sampling process.

Parameter	Accuracy	Mean Recovery
Mercury	+/-13.3%	100%

< -Less Than mg -Milligrams m3 -Cubic Meters kg -Kilograms ppm -Parts per Million
> -Greater Than ug -Micrograms l -Liters NS -Not Specified ND -Not Detected NA -Not Applicable

610423697947 L373533
Date:04/27/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

GALSON CHAIN OF CUSTODY

96

Turn Around Time (TAT):	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

☑ Samples submitted using the FreePumpLoan™ Program

☐ Samples submitted using the FreeSamplingBadges™ Program

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 13497

Original Prep No.: PSY377862

CS Rep: TLANCASTER

Online COC No.: 106022

Report To :	Paul Stoddard
Company Name :	EnSafe
Address 1 :	5724 Summer Trees Drive
Address 2 :	
City, State Zip :	Memphis, TN 38134
Phone No. :	(901) 372-7962
Cell No. :	
Email reports to :	pstoddard@ensafe.com
Comments :	cc: rthomas@ensafe.com

Invoice To :	Accounts Payable
Company Name :	EnSafe-MEMPHIS, TN
Address 1 :	5724 Summer Trees Drive
Address 2 :	
City, State Zip :	Memphis, TN 38134
Phone No. :	901 - 372 - 7962
Email Address :	accountspayable@ensafe.com
Comments :	
P.O. No. :	
Payment info. :	☐ I will call SGS Galson to provide credit card info ☐ Card on File (enter the last five digits on the line below)

Comments : Shaw prep needed for vapor samples.

State Sampled :

Please indicate which OEL(s) this data will be used for :
☐ OSHA PEL ☐ ACGIH TLV ☐ MSHA ☐ Cal OSHA
☐ IAQ : _____ (Specify Limit(s)) ☐ Other : _____ (Specify Other)

Site Name : GTMO, Cuba | Project : Site Investigation | Sampled By : Robbie Thomas | List description of industry or Process/interferences present in sampling area :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume / Sample Time / Sample Area *	Liters / Minutes / in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AV29IAHG16-5	4/16/16	226-17-1A	96 ~~480~~ 1557	Lit. ~~Min~~	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG17-5	4/16/16	226-17-1A	96 16:03	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG18-5	4/16/16	226-17-1A	96 16:08	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature	Date	Time
Relinquished By :	Robbie Thomas	Robbie Thomas	4/[illegible]/16	0950	Received By :	Zachary King	4/27/16	9:43
Relinquished By :					Received By :			

* You must fill in these columns for any samples which you are submitting.

Samples received after 3pm will be considered as next day's business.

Online COC No. : 106022
Prep No. : PSY377862
Account No. : 13497
Draft : 4/14/2016 1:21:12 PM

SGS Galson Laboratories | 6601 Kirkville Road East Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 f +1 315 437 0571 www.galsonlabs.com | www.sgs.com

SGS GALSON CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AV29IAHG15-5	4/16/16	226-17-1A	96 16:14	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG14-5	4/16/16	226-17-1A	96 16:20	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG13-5	4/16/16	226-17-1A	96 16:24	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG12-5	4/16/16	226-17-1A	96 16:29	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG11-5	4/16/16	226-17-1A	96 16:35	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGDV-5	4/16/16	226-17-1A	96 16:48	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG22-5	4/17/16	226-17-1A	96 16:07	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG5-5	4/17/16	226-17-1A	96 16:11	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG23-5	4/17/16	226-17-1A	96 16:16	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG4-5	4/17/16	226-17-1A	96 16:19	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG3-5	4/17/16	226-17-1A	96 16:24	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature	Date	Time
Relinquished By :	Robbie Thomas	Robbie Thomas	4/25/16	0950	Received By :	Zachary King	4/27/16	9:43
Relinquished By :					Received By :			

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No. : 106022
Prep No. : PSY377862
Account No. : 13497
Draft : 4/14/2016 1:21:12 PM

SGS Galson Laboratories | 6601 Kirkville Road East Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 f +1 315 437 0571 www.galsonlabs.com | www.sgs.com

SGS GALSON CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AV29IAHG24-5	4/17/16	226-17-1A	96 16:29	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG2-5	4/17/16	226-17-1A	96 16:32	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGBLK-1	4/17/16	226-17-1A	0 16:35	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG10-2	4/22/16	226-17-1A	96 16:08	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGLB-2	4/22/16	226-17-1A	96 15:54	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGBLK-2	4/22/16	226-17-1A	0	Lit.			
AV29IAHGBLK-3	4/22/16	226-17-1A	0	Lit.			
AV29IAHG29-5	4/22/16	226-17-1A	96 16:03	Lit.			

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	~~Robbie Thomas~~				Received By :	Zachary King		4/27/16	9:43
Relinquished By :	Robbie Thomas	Robbie Thomas	4/25/16	0950	Received By :				

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No. : 106022
Prep No. : PSY377862
Account No. : 13497
Draft : 4/14/2016 1:21:12 PM

SGS Galson Laboratories | 6601 Kirkville Road East Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 f +1 315 437 0571 www.galsonlabs.com | www.sgs.com

INVOICE

SGS Galson

Login No : L373533
Project : STANDARD
PO No : 20989
Site : GTMO, Cuba

Invoice No : 440532
Invoice Date : 04-MAY-16
Account No : 13497
Client Project : Site Investigation

Bill To : Accounts Payable
EnSafe-MEMPHIS, TN
5724 Summer Trees Drive
Memphis TN 38134

Report To : Ms. Tina Cantwell

TERMS: NET 60 DAYS
Finance charges will be applied based on the terms and conditions of sale.

Sample #	Client ID	Media	Analysis	Unit Price
L373533-1	AV29IAHG16-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-1	AV29IAHG16-5	OPTIONS	IM-DELIVERABLES/Deliverables	$ 0.00
L373533-2	AV29IAHG17-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-3	AV29IAHG18-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-4	AV29IAHG15-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-5	AV29IAHG14-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-6	AV29IAHG13-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-7	AV29IAHG12-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-8	AV29IAHG11-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-9	AV29IAHGDV-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-10	AV29IAHG22-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-11	AV29IAHG5-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-12	AV29IAHG23-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-13	AV29IAHG4-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-14	AV29IAHG3-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-15	AV29IAHG24-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-16	AV29IAHG2-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-17	AV29IAHGBLK-1	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-18	AV29IAHGLB-2	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-19	AV29IAHGBLK-2	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-20	AV29IAHGBLK-3	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-21	AV29IAHG27-5	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
L373533-22	AV29IAHG10-2	226-17-1A	IM-SHAWHG/Mercury	$ 61.00
			Total Analytical :	$ 1,342.00
			Total Login Charges --->	$ 1,342.00

(Charges are displayed in US Dollars)

Please Remit To: SGS Galson Laboratories, Inc., P.O. Box 8000, Dept 684, Buffalo, NY 14267
Phone: 888-432-5227

INVOICE

SGS Galson

Login No : L373533
Project : STANDARD
PO No : 20989
Site : GTMO, Cuba

Invoice No : 440532
Invoice Date : 04-MAY-16
Account No : 13497
Client Project : Site Investigation

Bill To : Accounts Payable
EnSafe-MEMPHIS, TN
5724 Summer Trees Drive
Memphis TN 38134

Report To : Ms. Tina Cantwell

TERMS: NET 60 DAYS
Finance charges will be applied based on the terms and conditions of sale.

Sample #	Client ID	Media	Analysis	Unit Price

Electronic Payments:
SGS Galson Laboratories *UPDATED
M&T Bank
M&T Plaza
Buffalo, NY USA
Swift Code: MANTUS33
Routing Number: 022000046
Account Number: 16069486 (*NEW ACCT)

Please Remit To: SGS Galson Laboratories, Inc., P.O. Box 8000, Dept 684, Buffalo, NY 14267
Phone: 888-432-5227

INVOICE

SGS Galson

Login No : L373533
Project : STANDARD
PO No : 20989
Site : GTMO, Cuba

Invoice No : 440532
Invoice Date : 04-MAY-16
Account No : 13497
Client Project : Site Investigation

Bill To : Accounts Payable
EnSafe-MEMPHIS, TN
5724 Summer Trees Drive
Memphis TN 38134

Report To : Ms. Tina Cantwell

TERMS: NET 60 DAYS
Finance charges will be applied based on the terms and conditions of sale.

Sample #	Client ID	Media	Analysis	Unit Price

Total Login Charges :	$ 1,342.00
Sample Discount :	- $ 134.20
Amount Due --->	$ 1,207.80

(Charges are displayed in US Dollars)

Please Remit To: SGS Galson Laboratories, Inc., P.O. Box 8000, Dept 684, Buffalo, NY 14267
Phone: 888-432-5227

610423697947 L373533
Date:04/27/16
Shipper:FEDEX
Initials:SK
Prep:UNKNOWN

GALSON CHAIN OF CUSTODY

96

Turn Around Time (TAT):	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

☑ Samples submitted using the FreePumpLoan™ Program

☐ Samples submitted using the FreeSamplingBadges™ Program

You may edit and complete this COC electronically by logging in to your Client Portal account at https://portal.galsonlabs.com/

Client Acct No.: 13497

Original Prep No.: PSY377862

CS Rep: TLANCASTER

Online COC No.: 106022

Report To :	Paul Stoddard
Company Name :	EnSafe
Address 1 :	5724 Summer Trees Drive
Address 2 :	
City, State Zip :	Memphis, TN 38134
Phone No. :	(901) 372-7962
Cell No. :	
Email reports to :	pstoddard@ensafe.com
Comments :	cc: rthomas@ensafe.com

Invoice To :	Accounts Payable
Company Name :	EnSafe-MEMPHIS, TN
Address 1 :	5724 Summer Trees Drive
Address 2 :	
City, State Zip :	Memphis, TN 38134
Phone No. :	901 - 372 - 7962
Email Address :	accountspayable@ensafe.com
Comments :	
P.O. No. :	
Payment info. :	☐ I will call SGS Galson to provide credit card info ☐ Card on File (enter the last five digits on the line below)

Comments : Shaw prep needed for vapor samples.

State Sampled :

Please indicate which OEL(s) this data will be used for :
☐ OSHA PEL ☐ ACGIH TLV ☐ MSHA ☐ Cal OSHA
☐ IAQ : _____ (Specify Limit(s)) ☐ Other : _____ (Specify Other)

Site Name : GTMO, Cuba | Project : Site Investigation | Sampled By : Robbie Thomas | List description of industry or Process/interferences present in sampling area :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume / Sample Time / Sample Area *	Liters / Minutes / in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AV29IAHG16-5	4/16/16	226-17-1A	96 ~~480~~ 1557	Lit. ~~Min~~ gr	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG17-5	4/16/16	226-17-1A	96 1603	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG18-5	4/16/16	226-17-1A	96 1608	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature	Date	Time
Relinquished By :	Robbie Thomas	Robbie Thomas	4/[illegible]/16	0950	Received By :	Zachary King	4/27/16	9:43
Relinquished By :					Received By :			

* You must fill in these columns for any samples which you are submitting.

Samples received after 3pm will be considered as next day's business.

Online COC No. : 106022
Prep No. : PSY377862
Account No. : 13497
Draft : 4/14/2016 1:21:12 PM

SGS Galson Laboratories | 6601 Kirkville Road East Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 f +1 315 437 0571 www.galsonlabs.com | www.sgs.com

SGS GALSON CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AV29IAHG15-5	4/16/16	226-17-1A	96 16:14	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG14-5	4/16/16	226-17-1A	96 16:20	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG13-5	4/16/16	226-17-1A	96 16:24	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG12-5	4/16/16	226-17-1A	96 16:29	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG11-5	4/16/16	226-17-1A	96 16:35	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGDV-5	4/16/16	226-17-1A	96 16:48	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG22-5	4/17/16	226-17-1A	96 16:07	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG5-5	4/17/16	226-17-1A	96 16:11	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG23-5	4/17/16	226-17-1A	96 16:16	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG4-5	4/17/16	226-17-1A	96 16:19	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG3-5	4/17/16	226-17-1A	96 16:24	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature	Date	Time
Relinquished By :	Robbie Thomas	Robbie Thomas	4/25/16	0950	Received By :	Zachary King	4/27/16	9:43
Relinquished By :					Received By :			

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No. : 106022
Prep No. : PSY377862
Account No. : 13497
Draft : 4/14/2016 1:21:12 PM

SGS Galson Laboratories | 6601 Kirkville Road East Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 f +1 315 437 0571 www.galsonlabs.com | www.sgs.com

SGS GALSON CHAIN OF CUSTODY

Comments :

Sample ID * (Maximum of 20 Characters)	Date Sampled *	Collection Medium	Sample Volume Sample Time Sample Area *	Liters Minutes in², cm², ft² *	Analysis Requested	Method Reference ^	Hexavalent Chromium Process (e.g., welding, plating, painting, etc.)
AV29IAHG24-5	4/17/16	226-17-1A	96 16:29	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG2-5	4/17/16	226-17-1A	96 16:32	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGBLK-1	4/17/16	226-17-1A	0 16:35	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHG10-2	4/22/16	226-17-1A	96 16:08	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGLB-2	4/22/16	226-17-1A	96 15:54	Lit.	Mercury, vapor (low LOQ)	mod. NIOSH 6009; CVAA TUBE	
AV29IAHGBLK-2	4/22/16	226-17-1A	0	Lit.			
AV29IAHGBLK-3	4/22/16	226-17-1A	0	Lit.			
AV29IAHG29-5	4/22/16	226-17-1A	96 16:03	Lit.			

☐ ^ If the method(s) indicated on the COC are not our routine/preferred method(s), we will substitute our routine/preferred methods. If this is not acceptable, check here to have us contact you.

Chain of Custody	Print Name / Signature		Date	Time		Print Name / Signature		Date	Time
Relinquished By :	~~Robbie Thomas~~				Received By :	Zachary King		4/27/16	9:43
Relinquished By :	Robbie Thomas	Robbie Thomas	4/25/16	0950	Received By :				

*** You must fill in these columns for any samples which you are submitting.**

Samples received after 3pm will be considered as next day's business.

Online COC No. : 106022
Prep No. : PSY377862
Account No. : 13497
Draft : 4/14/2016 1:21:12 PM

SGS Galson Laboratories | 6601 Kirkville Road East Syracuse, NY 13057, USA t +1 888 432 5227 | +1 315 432 5227 f +1 315 437 0571 www.galsonlabs.com | www.sgs.com

Sample Receipt Documentation

Internal Chain of Custody

SGC GALSON INTERNAL CHAIN OF CUSTODY PAGE 1 of 6

Login #	Client Name	Acct/Job #	VTSR	Debulk Date
L373533	EnSafe-MEMPHIS, TN	13497	27-APR-16	

Lab ID.	Client ID	Matrix	Storage	Sequence No.	Date/Time	Action	Tech. Name	Department
L373533-1	AV29IAHG16-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-1	AV29IAHG16-5	OPTIONS	Cabinet 1					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-2	AV29IAHG17-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-3	AV29IAHG18-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep

Login #	Client Name	Acct/Job #	VTSR	Debulk Date
L373533	EnSafe-MEMPHIS, TN	13497	27-APR-16	

Lab ID.	Client ID	Matrix	Storage	Sequence No.	Date/Time	Action	Tech. Name	Department
L373533-4	AV29IAHG15-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-5	AV29IAHG14-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-6	AV29IAHG13-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-7	AV29IAHG12-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep

Login #	Client Name	Acct/Job #	VTSR	Debulk Date
L373533	EnSafe-MEMPHIS, TN	13497	27-APR-16	

Lab ID.	Client ID	Matrix	Storage	Sequence No.	Date/Time	Action	Tech. Name	Department
L373533-8	AV29IAHG11-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-9	AV29IAHGDV-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-10	AV29IAHG22-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-11	AV29IAHG5-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep

Login #	Client Name	Acct/Job #	VTSR	Debulk Date
L373533	EnSafe-MEMPHIS, TN	13497	27-APR-16	

Lab ID.	Client ID	Matrix	Storage	Sequence No.	Date/Time	Action	Tech. Name	Department
L373533-12	AV29IAHG23-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-13	AV29IAHG4-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-14	AV29IAHG3-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-15	AV29IAHG24-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep

Login #	Client Name	Acct/Job #	VTSR	Debulk Date
L373533	EnSafe-MEMPHIS, TN	13497	27-APR-16	

Lab ID.	Client ID	Matrix	Storage	Sequence No.	Date/Time	Action	Tech. Name	Department
L373533-16	AV29IAHG2-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-17	AV29IAHGBLK-1	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-18	AV29IAHGLB-2	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-19	AV29IAHGBLK-2	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep

Login #	Client Name	Acct/Job #	VTSR	Debulk Date
L373533	EnSafe-MEMPHIS, TN	13497	27-APR-16	

Lab ID.	Client ID	Matrix	Storage	Sequence No.	Date/Time	Action	Tech. Name	Department
L373533-20	AV29IAHGBLK-3	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-21	AV29IAHG27-5	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep
L373533-22	AV29IAHG10-2	226-17-1A	Freezer 5					
				1	04/27/2016 16:18	Check Out	MGROTH	Login
				2	04/27/2016 16:30	Check In	KMURRAY	Login
				3	04/27/2016 19:08	Check Out	ASPARANO	Metals Prep

Inorganic Metals

EnSafe-MEMPHIS, TN Project #: Site Investigation Package: L373533

SGS Galson Laboratories received 22 samples for Metals analysis on April 27, 2016. The samples were assigned to SGS Galson Login: L373533. Samples were analyzed for Mercury by HGC following method mod. NIOSH 6009 CVAA.

Sample ID	Date Sampled	Date Analyzed
L373533-1 (AV29IAHG16-5)	April 16, 2016	April 28, 2016
L373533-2 (AV29IAHG17-5)	April 16, 2016	April 28, 2016
L373533-3 (AV29IAHG18-5)	April 16, 2016	April 28, 2016
L373533-4 (AV29IAHG15-5)	April 16, 2016	April 28, 2016
L373533-5 (AV29IAHG14-5)	April 16, 2016	April 28, 2016
L373533-6 (AV29IAHG13-5)	April 16, 2016	April 28, 2016
L373533-7 (AV29IAHG12-5)	April 16, 2016	April 28, 2016
L373533-8 (AV29IAHG11-5)	April 16, 2016	April 28, 2016
L373533-9 (AV29IAHGDV-5)	April 16, 2016	April 28, 2016
L373533-10 (AV29IAHG22-5)	April 17, 2016	April 28, 2016
L373533-11 (AV29IAHG5-5)	April 17, 2016	April 28, 2016
L373533-12 (AV29IAHG23-5)	April 17, 2016	April 28, 2016
L373533-13 (AV29IAHG4-5)	April 17, 2016	April 28, 2016
L373533-14 (AV29IAHG3-5)	April 17, 2016	April 28, 2016
L373533-15 (AV29IAHG24-5)	April 17, 2016	April 28, 2016
L373533-16 (AV29IAHG2-5)	April 17, 2016	April 28, 2016
L373533-17 (AV29IAHGBLK-1)	April 17, 2016	April 28, 2016
L373533-18 (AV29IAHGLB-2)	April 22, 2016	April 28, 2016
L373533-19 (AV29IAHGBLK-2)	April 22, 2016	April 28, 2016
L373533-20 (AV29IAHGBLK-3)	April 22, 2016	April 28, 2016
L373533-21 (AV29IAHG27-5)	April 22, 2016	April 28, 2016
L373533-22 (AV29IAHG10-2)	April 22, 2016	April 28, 2016

Analysis Narrative

All samples were prepared on April 27, 2016 and were associated with analytical workgroup WG345621 and preparation workgroup WG345579. All ICV/CCV, ICB/CCB, DLS and blank spikes were within control limits.

Line through login number L373533 in raw data and on sequence denotes correction to a typo. Cross out does not represent erroneous or invalid data.

The samples were analyzed on HGC. The calibration for HGC was performed on April 28, 2016.

All method modifications are listed in the current revision of the following SOPs: MT-SOP-20 and MT-SOP-8.

Summary of Quality Control Measures

- The initial calibration verification (ICV) and continuing calibration verification (CCV) standards are prepared from a separate source as the initial calibration. The control limits are 90 to 110%.
- Blanks consist of the reagent blank (ICB/CCB) and media blanks obtained from the laboratory supply.
- The detection limit standard is prepared from a separate source than the initial calibration. The control limits are 80 to 120%.
- Blank spikes are prepared in-house; the media is spiked with the analyte(s) of interest, then prepared and analyzed with the associated samples. The control limits for blank spikes are 80 to 120%.
- Matrix spikes are prepared in-house; the media is spiked with the analyte(s) of interest, then prepared and analyzed with the associated samples. The control limits for blank spikes are 75 to 125%.
- The control limits for Relative Percent Difference (RPD) between Spikes and Spike Duplicates is plus or minus 20%.
- The method blank, blank spike and blank spike duplicate recoveries are reported on the corresponding summary forms.

Note: The analysis narrative only addresses those nonconformances which may potentially impact sample data. An example of an issue that would not be addressed is a potential high bias for an analyte when all samples are below the reporting level. Another example would be a relative percent difference (RPD) for a set of laboratory spikes that is outside control limits, where the related recoveries are otherwise within limits.

SGS GALSON

Metals Preparation Summary/Custody Report

Work Group: WG345579 Run ID: R390755 Temp: 33 °C
SOP ID: MT-SOP-8 Time: 60 min Timer Used: 140650701
Method: Mod. NIOSH 6009
Acid Lot: 26983/26992

Sample	Matrix	Initial Wt.	Final Volume	Spike Lot #	Spike Amt	Pipette	Prep Date	Prep Analyst
L373533-1	109	-	100 ml				04/27/16	AS
L373533-2	109	-	100 ml				04/27/16	AS
L373533-3	109	-	100 ml				04/27/16	AS
L373533-4	109	-	100 ml				04/27/16	AS
L373533-5	109	-	100 ml				04/27/16	AS
L373533-6	109	-	100 ml				04/27/16	AS
L373533-7	109	-	100 ml				04/27/16	AS
L373533-8	109	-	100 ml				04/27/16	AS
L373533-9	109	-	100 ml				04/27/16	AS
L373533-10	109	-	100 ml				04/27/16	AS
L373533-11	109	-	100 ml				04/27/16	AS
L373533-12	109	-	100 ml				04/27/16	AS
L373533-13	109	-	100 ml				04/27/16	AS
L373533-14	109	-	100 ml				04/27/16	AS
L373533-15	109	-	100 ml				04/27/16	AS
L373533-16	109	-	100 ml				04/27/16	AS
L373533-17	109	-	100 ml				04/27/16	AS
L373533-18	109	-	100 ml				04/27/16	AS
L373533-19	109	-	100 ml				04/27/16	AS
L373533-20	109	-	100 ml				04/27/16	AS

SGS GALSON

Metals Preparation Summary/Custody Report

Work Group: WG345579 Run ID: R390755 Temp: 33 °C
SOP ID: MT-SOP-8 Time: 60 min Timer Used: 140650701
Method: Mod. NIOSH 6009
Acid Lot: 26983/26992

Sample	Matrix	Initial Wt.	Final Volume	Spike Lot #	Spike Amt	Pipette	Prep Date	Prep Analyst
L373533-21	109	-	100 ml				04/27/16	AS
L373533-22	109	-	100 ml				04/27/16	AS
WG345579-1 MBLANK	109	-	100 ml				04/27/16	AS
WG345579-2 BS	109	-	100 ml	25289	.0001 ml	18	04/27/16	AS
WG345579-3 BSD	109	-	100 ml	25289	.0001 ml	18	04/27/16	AS
WG345579-4 MBLANK	109	-	100 ml				04/27/16	AS
WG345579-5 BS	109	-	100 ml	25289	.0001 ml	18	04/27/16	AS
WG345579-6 BSD	109	-	100 ml	25289	.0001 ml	18	04/27/16	AS

Prep Comments:

WG345579-4 RP #'s used: IM-R14, IM-R13, and IM-R5

WG345579-5 For pre-dilution information of 1000ppm Hg stock traceability, see "MT-FORM-2"

WG345579-6 BS/BSD Intermed. Used IH627782

Galson Laboratories

List of Acronyms and Acceptable Limits for Metals - ICP, ICPMS, CVAA

ACRONYM	DEFINITION	LIMITS
MB	Method Blank	<LOQ
BS	Blank Spike	80-120%
BSD	Blank Spike Duplicate	80-120%
DLS	Detection Limit Standard	+/- 20%
WGXXXXX-XS	Matrix Spike	+/- 25%
WGXXXXX-XD	Matrix Spike Duplicate	+/- 25%
LXXXXX-XA	Analytical Post Spike	+/- 20%
LXXXXX-XL	Serial Dilution at 5x	+/- 10%
ICSA	Interelement Correction Standards	<LOQ
ICSAB	Interelement Correction Standards	+/- 20%
DLOQ	Level of Quantitation	20%
ICV	Initial Calibration Verification	10%
CCV	Continuing Calibration Verification	10%
ICB	Initial Calibration Blank	<LOQ
CCB	Continuing Calibration Blank	<LOQ
LRS	Linear Range Standard	10%
RLC-F	Regulatory Limit Check - Filter	10%
RLC-P	Regulatory Limit Check - Paint	10%
RLC-50W	Regulatory Limit Check - Wipe	10%

Outliers from the 80-120% limits are footnoted on the applicable reports.

		FILTER LOQ-ppb	TUBE LOQ-ppb	WIPE LOQ-ppb	BADGE LOQ-ppb
CVAA	Hg	0.2	0.3	0.2	0.5

Inorganic Metals
Quality Control Data

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

METHOD BLANK REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID **Type** **Instrument** **Analysis Date** **Analysis Time**		WG345579-1 MBLANK HGC 04/28/16 11:59	WG345579-4 MBLANK HGC 04/28/16 12:04						
	LOQ (ug)	Found (ug)	Found (ug)						
Mercury	0.030	<0.030	<0.030						

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

BLANK SPIKE/BLANK SPIKE DUPLICATE REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID		WG345579-2			WG345579-3				
Type		BS			BSD				
Spike Lot #		IH627782			IH627782				
Instrument		HGC			HGC				
Analysis Date		Apr 28, 2016 12:01			Apr 28, 2016 12:02				
	Limits (%)	True Value (ug/sample)	Found (ug/sample)	Recovery (%)	True Value (ug/sample)	Found (ug/sample)	Recovery (%)	RPD	RPD Limits
Mercury	80.0 to 120.	0.100	0.0934	93.2	0.100	0.0921	91.9	1.40	-20.0 to 20.0

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

BLANK SPIKE/BLANK SPIKE DUPLICATE REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID		WG345579-5			WG345579-6				
Type		BS			BSD				
Spike Lot #		IH627782			IH627782				
Instrument		HGC			HGC				
Analysis Date		Apr 28, 2016 12:05			Apr 28, 2016 12:07				
	Limits (%)	True Value (ug/sample)	Found (ug/sample)	Recovery (%)	True Value (ug/sample)	Found (ug/sample)	Recovery (%)	RPD	RPD Limits
Mercury	80.0 to 120.	0.100	0.0950	94.8	0.100	0.0932	93.0	1.92	-20.0 to 20.0

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

INITIAL/CONTINUING CALIBRATION REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID		R390808-1								
Type		ICV								
Spike Lot #		HGCCV								
Instrument		HGC								
Analysis Date		Apr 28, 2016 11:07								
	Limits (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value ()	Found ()	Recovery (%)	True Value ()	Found ()	Recovery (%)
Mercury	90.0 to 110.	3.00	3.03	101.						

Printed: 05/09/16 11:27 icvdlsrpt.idxl Report Reference # 934483

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

INITIAL/CONTINUING CALIBRATION REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID		R390808-4			R390808-6			R390808-8		
Type		CCV			CCV			CCV		
Spike Lot #		HGCCV			HGCCV			HGCCV		
Instrument		HGC			HGC			HGC		
Analysis Date		Apr 28, 2016 11:34			Apr 28, 2016 11:53			Apr 28, 2016 12:12		
	Limits (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value (ppb)	Found (ppb)	Recovery (%)
Mercury	90.0 to 110.	3.00	3.07	102.	3.00	3.00	100.	3.00	3.01	100.

Printed: 05/09/16 11:27 icvdlsrpt.idxl Report Reference # 934483

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

INITIAL/CONTINUING CALIBRATION REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID		R390808-10			R390808-12					
Type		CCV			CCV					
Spike Lot #		HGCCV			HGCCV					
Instrument		HGC			HGC					
Analysis Date		Apr 28, 2016 12:31			Apr 28, 2016 12:49					
	Limits (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value ()	Found ()	Recovery (%)
Mercury	90.0 to 110.	3.00	2.97	98.9	3.00	3.00	100.			

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

INITIAL/CONTINUING BLANK REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

Lab Sample ID **Type** **Instrument** **Analysis Date** **Analysis Time**		R390808-2 ICB HGC 04/28/16 11:08	R390808-5 CCB HGC 04/28/16 11:36	R390808-7 CCB HGC 04/28/16 11:54	R390808-9 CCB HGC 04/28/16 12:13	R390808-11 CCB HGC 04/28/16 12:32	R390808-13 CCB HGC 04/28/16 12:51	R390808-15 CCB HGC 04/28/16 13:02	
	LOQ ppb	Found (ppb)	Found (ppb)	Found (ppb)	Found (ppb)	Found (ppb)	Found (ppb)	Found (ppb)	
Mercury	0.2	<.2	<.2	<.2	<.2	<.2	<.2	<.2	

SGS Galson
6601 Kirkville Rd. E. Syracuse,NY 13057

DETECTION LIMIT STANDARD RECOVERY REPORT

Client : EnSafe-MEMPHIS, TN
Account No: 13497
Login No. : L373533

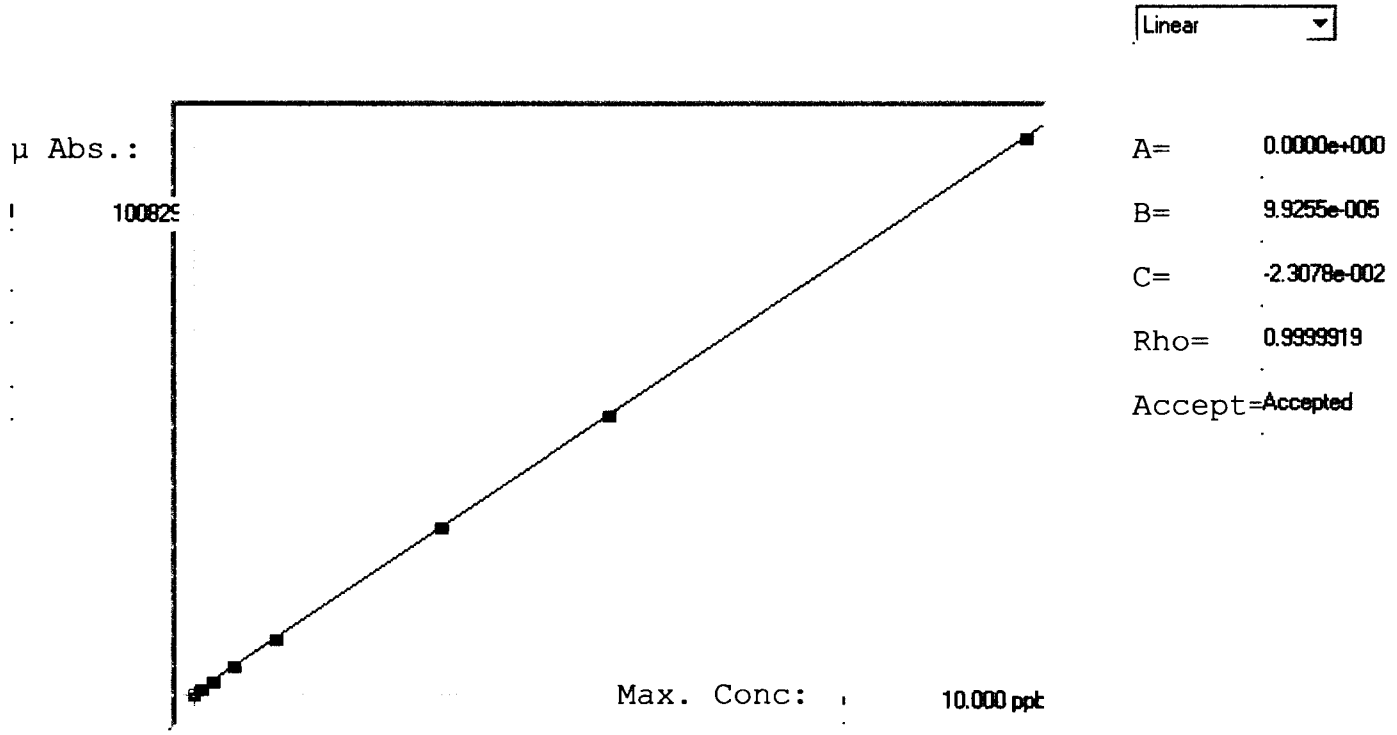
Lab Sample ID		R390808-3								
Type		DLS								
Spike Lot #		DLS								
Instrument		HGC								
Analysis Date		Apr 28, 2016 11:10								
	Limits (%)	True Value (ppb)	Found (ppb)	Recovery (%)	True Value ()	Found ()	Recovery (%)	True Value ()	Found ()	Recovery (%)
Mercury	80.0 to 120.	0.200	0.186	92.8						

Printed: 05/09/16 11:29 icvdlsrpt.idxl Report Reference # 934483

Metals Raw Data

MT-SOP-20

IH C042816



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
Blank	0.000	-0.014	-0.014	88	0.000	88				
0.1	0.100	0.087	-0.013	1114	0.0 %	1114				
0.25	0.250	0.245	-0.005	2702	0.0 %	2702				
0.5	0.500	0.502	0.002	5289	0.0 %	5289				
1.0	1.000	1.014	0.014	10444	0.0 %	10444				
3.0	3.000	3.009	0.009	30551	0.0 %	30551				
5.0	5.000	5.022	0.022	50833	0.0 %	50833				
10.0	10.000	9.985	-0.015	100829	0.0 %	100829				

KEG 4/28/16
4/28/16

C042816

Method: IH Operator: Admin Date of Analysis: 28 Apr 2016 10:18:27

Sample ID	Wt.	Mean	Stats Data	Units	Extended ID	Seq ID	Date
Blank	1.000	88	88,	ppb		11301	28 Apr 2016 10:54:41
0.1	1.000	1114	1114,	ppb		11302	28 Apr 2016 10:56:14
0.25	1.000	2702	2702,	ppb		11303	28 Apr 2016 10:57:48
0.5	1.000	5289	5289,	ppb		11304	28 Apr 2016 10:59:22
1.0	1.000	10444	10444,	ppb		11305	28 Apr 2016 11:00:56
3.0	1.000	30551	30551,	ppb		11306	28 Apr 2016 11:02:30
5.0	1.000	50833	50833,	ppb		11307	28 Apr 2016 11:04:04
10.0	1.000	100829	100829,	ppb		11308	28 Apr 2016 11:05:37
CCV	1.000	3.0335	3.0231, 3.0439,	ppb		11309	28 Apr 2016 11:07:13
CCB	1.000	-0.0567	-0.0567, -0.0567,	ppb		11310	28 Apr 2016 11:08:57
DLS	1.000	0.1856	0.1854, 0.1858,	ppb	WG345621	11311	28 Apr 2016 11:10:31
WG345533-1	1.000	-0.0174	-0.0175, -0.0172,	ppb		11312	28 Apr 2016 11:20:26
WG345533-2	1.000	0.9883	0.9827, 0.9939,	ppb		11313	28 Apr 2016 11:21:59
WG345533-3	1.000	1.0027	0.9933, 1.0122,	ppb		11314	28 Apr 2016 11:23:32
L373441-1	1.000	0.2751	0.2701, 0.2801,	ppb		11315	28 Apr 2016 11:25:06
L373110-1	1.000	1.2747	1.2690, 1.2804,	ppb		11316	28 Apr 2016 11:26:40
L373110-2	1.000	0.2165	0.2156, 0.2174,	ppb		11317	28 Apr 2016 11:28:14
L373110-3	1.000	4.4801	4.4500, 4.5102,	ppb		11318	28 Apr 2016 11:29:49
L373110-4	1.000	1.6305	1.6216, 1.6394,	ppb		11319	28 Apr 2016 11:31:23
L373110-5	1.000	-0.0353	-0.0352, -0.0355,	ppb		11320	28 Apr 2016 11:32:59
CCV	1.000	3.0701	3.0395, 3.1007,	ppb		11321	28 Apr 2016 11:34:35
CCB	1.000	-0.0534	-0.0535, -0.0532,	ppb		11322	28 Apr 2016 11:36:09
L373298-2	1.000	-0.0138	-0.0143, -0.0134,	ppb		11323	28 Apr 2016 11:37:43
L373298-4	1.000	0.3303	0.3286, 0.3321,	ppb		11324	28 Apr 2016 11:39:18
L373298-5	1.000	-0.0220	-0.0221, -0.0219,	ppb		11325	28 Apr 2016 11:40:53
L373298-6	1.000	-0.0198	-0.0193, -0.0202,	ppb		11326	28 Apr 2016 11:42:27
L373289-7	1.000	-0.0229	-0.0229, -0.0229,	ppb		11327	28 Apr 2016 11:44:01
L373289-8 298-8	1.000	-0.0231	-0.0231, -0.0231,	ppb		11328	28 Apr 2016 11:45:34
L373289-9 298-9	1.000	-0.0175	-0.0178, -0.0171,	ppb		11329	28 Apr 2016 11:47:06
L373289-10 298-10 KEG 4/28/16	1.000	-0.0175	-0.0177, -0.0172,	ppb		11330	28 Apr 2016 11:48:40
L373434-1	1.000	0.0108	0.0106, 0.0110,	ppb		11331	28 Apr 2016 11:50:13
L373434-2	1.000	0.1156	0.1141, 0.1171,	ppb		11332	28 Apr 2016 11:51:47
CCV	1.000	3.0028	2.9950, 3.0107,	ppb		11333	28 Apr 2016 11:53:21
CCB	1.000	-0.0540	-0.0537, -0.0542,	ppb		11334	28 Apr 2016 11:54:55
L373434-3	1.000	0.0085	0.0088, 0.0083,	ppb		11335	28 Apr 2016 11:56:30
L373434-4	1.000	-0.0217	-0.0221, -0.0213,	ppb		11336	28 Apr 2016 11:58:03
WG345579-1	1.000	-0.0147	-0.0148, -0.0146,	ppb		11337	28 Apr 2016 11:59:38
WG345579-2	1.000	0.9336	0.9305, 0.9367,	ppb		11338	28 Apr 2016 12:01:13
WG345579-3	1.000	0.9205	0.9125, 0.9286,	ppb		11339	28 Apr 2016 12:02:49
WG345579-4	1.000	-0.0273	-0.0277, -0.0268,	ppb		11340	28 Apr 2016 12:04:23
WG345579-5	1.000	0.9495	0.9486, 0.9504,	ppb		11341	28 Apr 2016 12:05:58
WG345579-6	1.000	0.9317	0.9306, 0.9328,	ppb		11342	28 Apr 2016 12:07:32
L343533-1	1.000	-0.0061	-0.0061, -0.0061,	ppb		11343	28 Apr 2016 12:09:06
L343533-2	1.000	0.0115	0.0109, 0.0121,	ppb		11344	28 Apr 2016 12:10:41
CCV KEG 4/28/16	1.000	3.0096	3.0006, 3.0186,	ppb		11345	28 Apr 2016 12:12:14
CCB7	1.000	-0.0537	-0.0536, -0.0537,	ppb		11346	28 Apr 2016 12:13:49
L343533-3 (L373533-#)	1.000	0.0115	0.0117, 0.0113,	ppb		11347	28 Apr 2016 12:15:23
L343533-4	1.000	0.0093	0.0094, 0.0092,	ppb		11348	28 Apr 2016 12:16:57
L343533-5	1.000	0.0077	0.0075, 0.0080,	ppb		11349	28 Apr 2016 12:18:31
L343533-6	1.000	0.0072	0.0072, 0.0072,	ppb		11350	28 Apr 2016 12:20:05
L343533-7	1.000	0.0073	0.0073, 0.0073,	ppb		11351	28 Apr 2016 12:21:40
L343533-8	1.000	0.0068	0.0065, 0.0072,	ppb		11352	28 Apr 2016 12:23:15
L343533-9	1.000	0.0044	0.0044, 0.0043,	ppb		11353	28 Apr 2016 12:24:50
L343533-10	1.000	0.0132	0.0129, 0.0134,	ppb		11354	28 Apr 2016 12:26:24
L343533-11	1.000	0.0087	0.0085, 0.0089,	ppb		11355	28 Apr 2016 12:27:58
L343533-12	1.000	0.0098	0.0093, 0.0103,	ppb		11356	28 Apr 2016 12:29:32
CCV	1.000	2.9674	2.9448, 2.9899,	ppb		11357	28 Apr 2016 12:31:05
CCB 7	1.000	-0.0579	-0.0578, -0.0580,	ppb		11358	28 Apr 2016 12:32:39
L343533-13	1.000	0.0079	0.0079, 0.0080,	ppb		11359	28 Apr 2016 12:34:14
L343533-14	1.000	0.0064	0.0061, 0.0066,	ppb		11360	28 Apr 2016 12:35:48
L343533-15	1.000	0.0073	0.0073, 0.0074,	ppb		11361	28 Apr 2016 12:37:22
L343533-16	1.000	0.0061	0.0059, 0.0063,	ppb		11362	28 Apr 2016 12:38:56
L343533-17	1.000	-0.0142	-0.0145, -0.0139,	ppb		11363	28 Apr 2016 12:40:30
L343533-18	1.000	0.0067	0.0063, 0.0072,	ppb		11364	28 Apr 2016 12:42:04
L343533-19	1.000	-0.0150	-0.0151, -0.0148,	ppb		11365	28 Apr 2016 12:43:39
L343533-20	1.000	-0.0142	-0.0144, -0.0140,	ppb		11366	28 Apr 2016 12:45:14
L343533-21	1.000	0.0145	0.0144, 0.0145,	ppb		11367	28 Apr 2016 12:46:49
L343533-22	1.000	0.0015	0.0012, 0.0018,	ppb		11368	28 Apr 2016 12:48:23
CCV	1.000	3.0003	2.9726, 3.0279,	ppb		11369	28 Apr 2016 12:49:57
CCB	1.000	-0.0527	-0.0526, -0.0529,	ppb		11370	28 Apr 2016 12:51:31
WG345580-1	1.000	-0.0083	-0.0086, -0.0080,	ppb		11371	28 Apr 2016 12:53:06
WG345580-2	1.000	0.9757	0.9713, 0.9801,	ppb		11372	28 Apr 2016 12:54:39
WG345580-3	1.000	0.9569	0.9537, 0.9601,	ppb		11373	28 Apr 2016 12:56:13
L373539-1	1.000	-0.0150	-0.0151, -0.0149,	ppb		11374	28 Apr 2016 12:57:48

KEG 4/28/16

PW 4/28/16

C042816

Method: IH Operator: Admin Date of Analysis: 28 Apr 2016 10:18:27

Sample ID	Wt.	Mean	Stats Data	Units	Extended ID	Seq ID	Date
L373539-2	1.000	-0.0058	-0.0055, -0.0061,	ppb		11375	28 Apr 2016 12:59:23
CCV	1.000	2.8759	2.8739, 2.8778,	ppb		11376	28 Apr 2016 13:00:57
CCB	1.000	-0.0533	-0.0534,	ppb		11377	28 Apr 2016 13:02:31

4/28/16
AM

MT-SOP20

C04/28/16

Rack	Cup	Sample ID	Extended ID	Wt.	Vol.	Cup Action
1	1	DLS	WG345621	1.0000	1.0000	
1	2	WG345533-1		1.0000	1.0000	
1	3	WG345533-2		1.0000	1.0000	
1	4	WG345533-3		1.0000	1.0000	
1	5	L373441-1		1.0000	1.0000	
1	6	L373110-1		1.0000	1.0000	
1	7	L373110-2		1.0000	1.0000	
1	8	L373110-3		1.0000	1.0000	
1	9	L373110-4		1.0000	1.0000	
1	10	L373110-5		1.0000	1.0000	
1	11	L373298-2		1.0000	1.0000	
1	12	L373298-4		1.0000	1.0000	
1	13	L373298-5		1.0000	1.0000	
1	14	L373298-6		1.0000	1.0000	
1	15	L373289-7		1.0000	1.0000	
1	16	L373289-8		1.0000	1.0000	
1	17	L373289-9		1.0000	1.0000	
1	18	L373289-10		1.0000	1.0000	
1	19	L373434-1		1.0000	1.0000	
1	20	L373434-2		1.0000	1.0000	
1	21	L373434-3		1.0000	1.0000	
1	22	L373434-4		1.0000	1.0000	
1	23	WG345579-1		1.0000	1.0000	
1	24	WG345579-2		1.0000	1.0000	
1	25	WG345579-3		1.0000	1.0000	
1	26	WG345579-4		1.0000	1.0000	
1	27	WG345579-5		1.0000	1.0000	
1	28	WG345579-6		1.0000	1.0000	
1	29	L343533-1		1.0000	1.0000	
1	30	L343533-2		1.0000	1.0000	
1	31	L343533-3		1.0000	1.0000	
1	32	L343533-4		1.0000	1.0000	
1	33	L343533-5		1.0000	1.0000	
1	34	L343533-6		1.0000	1.0000	
1	35	L343533-7		1.0000	1.0000	
1	36	L343533-8		1.0000	1.0000	
1	37	L343533-9		1.0000	1.0000	
1	38	L343533-10		1.0000	1.0000	
1	39	L343533-11		1.0000	1.0000	
1	40	L343533-12		1.0000	1.0000	

kcg 4/28/16
L373533-#

04/28/16 12:30:39

1/5

1 of 2

Rack	Cup	Sample ID	Extended ID	Wt.	Vol.	Cup Action
1	41	L343533-13		1.0000	1.0000	
1	42	L343533-14		1.0000	1.0000	
1	43	L343533-15		1.0000	1.0000	
1	44	L343533-16		1.0000	1.0000	
1	45	L343533-17		1.0000	1.0000	
1	46	L343533-18		1.0000	1.0000	
1	47	L343533-19		1.0000	1.0000	
1	48	L343533-20		1.0000	1.0000	
1	49	L343533-21		1.0000	1.0000	
1	50	L343533-22		1.0000	1.0000	
1	51	WG345580-1		1.0000	1.0000	
1	52	WG345580-2		1.0000	1.0000	
1	53	WG345580-3		1.0000	1.0000	
1	54	L373539-1		1.0000	1.0000	
1	55	L373539-2		1.0000	1.0000	
1	56			1.0000	1.0000	
1	57			1.0000	1.0000	
1	58			1.0000	1.0000	
1	59			1.0000	1.0000	
1	60			1.0000	1.0000	
2	1			1.0000	1.0000	
2	2			1.0000	1.0000	
2	3			1.0000	1.0000	
2	4			1.0000	1.0000	
2	5			1.0000	1.0000	
2	6			1.0000	1.0000	
2	7			1.0000	1.0000	
2	8			1.0000	1.0000	
2	9			1.0000	1.0000	
2	10			1.0000	1.0000	
2	11			1.0000	1.0000	
2	12			1.0000	1.0000	
2	13			1.0000	1.0000	
2	14			1.0000	1.0000	
2	15			1.0000	1.0000	
2	16			1.0000	1.0000	
2	17			1.0000	1.0000	
2	18			1.0000	1.0000	
2	19			1.0000	1.0000	
2	20			1.0000	1.0000	

04/28/16 12:30:39

Standards Prep Logs

Hg Calibration Standards

Working std matrix: 1% HNO3
(0.5mL of HNO3 to 50mL final vol.)

Page #: _____

ID	Element:	Stock #	Stk conc.	Stock Soln Vol.	Final Vol	Final Conc.
1 ppm Hg Working Std.	Hg		1000 ppm	50 uL (1)	50 mL	1 ppm
0.1 ppm Hg Working Std.	Hg		1 ppm	5 mL (3)	50 mL	0.1 ppm

Final matrix: 2.5% HNO_3, 2.5% HCl
(2.5mL HNO_3; 2.5mL HCl to 100mL final vol.)

ID	Vol of working Std.	Concentration	Final Vol	Final Conc.
STD 1	0	0.0ppm	100 mL	0.0 ppb
STD 2	100 uL (4)	0.1ppm	100 mL	0.1 ppb
STD 3	250 uL (2)	0.1ppm	100 mL	0.25 ppb
STD 4	500 uL (2)	0.1ppm	100 mL	0.5 ppb
STD 5	1000 uL (2)	0.1ppm	100 mL	1.0 ppb
STD 6	300 uL (2)	1ppm	100 mL	3.0 ppb
STD 7	500 uL (2)	1ppm	100 mL	5.0 ppb
STD 8	1000 uL (2)	1ppm	100 mL	10.0 ppb

HNO3 Acid ID #	HCl Acid ID #	Prep Date	Hg Stock #	ANALYST INITIALS
26758	266960	3/31/16	25289	PWL
26701	266946	4/5/16	25289	PWL
26907	267666	4/11/16	25289	PWL
26792	266695	4/13/16	25289	PWL
26761	26795	4/18/16	25289	PWL
26987	26764	4/22/16	25289	PWL
26988	26992	4/28/16	25289	GSM/PWL

(#) : # = pipette number used

ALL STANDARDS ARE MADE FRESH DAILY

Hg ICV Standard

022

Intermediate matrix: 1% HNO3
(0.5ml of HNO3 to a 50ml final vol.)

Page # _____

ID	Element	Stk. conc.	Vol.	Stock Soln Final Vol.	Final conc.
ICV Intermediate Std.	Hg	1000 ppm	50 ul (1)	50 ml	1 ppm

Final matrix: 2.5% HNO3, 2.5% HCl
(2.5ml HNO_3; 2.5ml HCl to 100ml Final Vol.)

ID	Volume of ICV Intermediate Std.	Int. Conc.	Final Vol	Final conc
ICV	300 ul (3)	1 ppm	100 ml	3.0 ppb

HnO3 Acid ID #	HCl Acid ID #	Hg Stock #	PREP DATE	ANALYST INITIALS
26907	26766	25286	4/11/16	PWL
26792	26695	25286	4/13/16	PWL
26761	26795	25286	4/18/16	PWL
26987	26764	25286	4/22/16	PWL
26988	26992	25286	4/28/16	PWL/GTR

(#) : # = pipette used.

ALL STANDARDS ARE MADE FRESH DAILY

042

Hg DLS Standard

Working std. matrix: 1% HNO3
(0.5ml of HNO3 to 50ml final vol.)

Page # _____

ID	Element	Stk. conc.	Vol.	Stock Soln Final Vol.	Final conc.
Working Std.	Hg	1000 ppm	50 ul (1)	50 ml	1 ppm

Final matrix: 2.5% HNO_3, 2.5% HCl
(2.5ml HNO_3; 2.5ml HCl to 100ml final vol.)

ID	Volume of Working Std.	Working Std. Conc.	Final Vol.	Final conc.
DLS	20 ul (1)	1 ppm	100 ml	0.2 ppb

HnO3 Acid ID #	HCl Acid ID #	PREP DATE	ANALYST INITIALS	Hg Stock #
26791	26765	3/25/16	PW	25289
26758	26696	3/31/16	PW	25289
26701	26696	4/5/16	PW	25289
26907	26766	4/11/16	PW	25289
26792	26695	4/13/16	PW	25289
26761	26795	4/18/16	PW	25289
26987	26761	4/22/16	PW	25289
26988	26992	4/26/16	COMPL	25289

(#) : # = pipette number used

ALL STANDARDS ARE MADE FRESH DAILY

Hg Blank Spike

Intermediate matrix: 1% HNO3
(0.5ml of HNO3 to a 50ml final vol.)

Page # _____

ID	Element	Stk. conc.	Vol.	Stock Soln Final Vol.	Final Conc
BS Intermediate Std.	Hg	1000 ppm	50 ul (1)	50 ml	1 ppm

ID	Volume of BS Intermediate Std.	Int. Conc.	Final Conc	Final ug
BS	100 ul / 100 ml final volume (4) 200 ul / 200 ml final volume (4)	1 ppm	1.0 ppb	0.2 ug

HnO3 Acid ID #	PREP DATE	ANALYST INITIALS	HG Stock #	HnO3 Acid ID #	PREP DATE	ANALYST INITIALS	HG Stock #
26334	1/11/16	AM/MJD	25289	26701	4/5/16	AM	25289
26338	1/12/16	JAR	25289	26907	4/11/16	AM	25289
26400	1/13/16	AS	25289	26792	4/13/16	AM	25289
26401	1/15/16	AS	25289	26761	4/18/16	AM	25289
26339	1/21/16	AM	25289	26987	4/22/16	AM	25289
26322	1/26/16	MJD	25289	26988	4/28/16	GSM / AM	25289
26325	1/29/16	JAR	25289				
26326	2/3/16	AM	25289				
26539	2/9/16	AM	25289				
26581	2/15/16	AS	25289				
26581	2/17/16	AM	25289				
26584	2/19/16	JAR	25289				
26584	2/23/16	MJD	25289				
26601	2/25/16	AM	25289				
26600	2/26/16	AM	25289				
26604	3/1/16	AM	25289				
26603	3/3/16	JAR	25289				
26603	3/7/16	MJD/AM	25289				
26615 (3/8/16 AM)	3/8/16	AM	25289				
26617	3/10/16	MJD	25289				
26697	3/11/16	AM	25289				
26763	3/17/16	JAR	25289				
26791	3/25/16	AM	25289				
26758	3/31/16	AM	25289				

ALL STANDARDS ARE MADE FRESH DAILY

(#) : # = pipette used.

NOTE: 100 ml final volume; 0.03 ug LOQ
200 ml final volume; 0.06 ug LOQ

STANNOUS CHLORIDE

Weigh out 50 grams of SnCl2, transfer to a 500mL volumetric flask, add 50 mls of 18.2MOHM water, add 50 ml of concentrated HCL, dilute to volume with 18.2MOHM water.
Heat solution on a hot plate and stir until completely dissovled.

UNIQUE ID#	PREP DATE	INITIALS	SnCL2 ID#	HCL ID#	EXPIRATION DATE
0153-081-1	1-11-16	PWL	25427	26309	1-12-16
0153-081-2	1/12/16	JAR	25427	26309	1/13/16
0153-081-3	1/13/16	PWL	25427	26309	1/14/16
0153-081-4	1/15/16	AS	25427	26309	1/16/16
0153-081-5	1/21/16	PWL	25427	26407	1/22/16
0153-081-6	1/26/16	PWL	25427	26406	1/27/16
0153-081-7	1/29/16	PWL	25427	26311	1/30/16
0153-081-8	2/3/16	PWL	25428	26311	2/4/16
0153-081-9	2/9/16	PWL	25428	26347	2/9/16
0153-081-10	2/15/16	AS	25427	26346	2/16/16
0153-081-11	2/17/16	PWL	25428	25948	2/18/16
0153-081-12	2/19/16	JAR	25428	25948	2/20/16
0153-081-13	2/23/16	PWL	25428	25948	2/24/16
0153-081-14	2/25/16	PWL	25428	25948	2/26/16
0153-081-15	2/26/16	PWL	25428	26542	2/27/16
0153-081-16	3/1/16	PWL	25428	26542	3/2/16
0153-081-17	3/3/16	JAR	25428	26578	3/3/16
0153-081-18	3/7/16	PWL	25428	26578	3/8/16
0153-081-19	3/8/16	PWL	25429	26578	3/9/16
0153-081-20	3/10/16	PWL	25429	26578	3/11/16
0153-081-21	3/11/16	PWL	25429	26579	3/12/16
0153-081-22	3/17/16	PWL	25429	26541	3/18/16
0153-081-23	3/25/16	PWL	25429	26765	3/26/16
0153-081-24	3/31/16	PWL	25429	26696	4/1/16
0153-081-25	4/5/16	PWL	25429	26696	4/6/16
0153-081-26	4/11/16	PWL	25429	26766	4/12/16
0153-081-27	4/13/16	PWL	25429	26695	4/14/16
0153-081-28	4/18/16	PWL	25430	26796	4/19/16
0153-081-29	4/22/16	PWL	~~26764~~ 25430	26764	4/25/16
0153-081-30	4/28/16	PWL/GSM	25430	26992	4/29/16

SnCl2 is prepared fresh daily.

10% HCl ACID RINSE

Transfer to a 2L volumetric flask 200ml Conc.HCl and dilute to volume with 18.2 MOHM water.

UNIQUE ID#	PREP DATE	INITIALS	HCl ACID GALSON ID #	EXP. DATE
0153-101-1	1-11-16	PW	26309	1-11-17
0153-101-2	1/12/16	JAR	26309	1/12/17
0153-101-3	1/13/16	PW	26309	1/13/17
0153-101-4	1/15/16	AS	26309	1/15/17
0153-101-5	1/26/16	PW	26406	1/26/17
0153-101-6	2/9/16	PW	26347	2/9/17
0153-101-7	2/15/16	AS	26346	2/15/17
0153-101-8	2/17/16	PW	25948	2/17/17
0153-101-9	2/19/16	JAR	25948	2/19/17
0153-101-10	2/26/16	PW	26542	2/26/17
0153-101-11	3/7/16	PW	26578	3/7/17
0153-101-12	4/5/16	PW	26696	4/5/17
0153-101-13	4/13/16	PW	26695	4/13/17

olution expires one year from date of preparation

Galson Chemical Inventory Report

05/12/2016 11:47

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
26988	NITRIC ACID	METALS ACID CABI	14MT	04/20/2016	11/19/2017	04/28/2016	

Vendor Fisher ***Manufacturer*** FISHER ***Lot No*** 1115110

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7697-37-2	NITRIC ACID	69	

Galson Chemical Inventory Report

05/11/2016 11:03

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
26992	HYDROCHLORIC ACID	METALS ACID CABI	14MT	04/20/2016	01/27/2019	04/28/2016	

Vendor Fisher ***Manufacturer*** FISHER ***Lot No*** 4115120

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7647-01-0	HYDROCHLORIC ACID	35	

Galson Chemical Inventory Report

05/09/2016 11:22

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
25289	MERCURY	METALS STD CABIN	14MT	06/19/2015	06/19/2016		

Vendor Inorganic ***Manufacturer*** INORGANIC ***Lot No*** J2-HG02133

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7439-97-6	MERCURY		1002

Galson Chemical Inventory Report

05/09/2016 11:22

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
25286	MERCURY	METALS STD CABIN	14MT	06/19/2015	06/19/2016		

Vendor Spex ***Manufacturer*** SPEX ***Lot No*** CL7-180HGY

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7439-97-6	MERCURY		1003

Galson Chemical Inventory Report

05/09/2016 11:22

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
25430	TIN (II) CHLORIDE	METALS	14MT	07/13/2015	07/13/2020		

Vendor Fisher ***Manufacturer*** ACROS ***Lot No*** A0346250

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7772-99-8	STANNOUS CHLORIDE	99.5	

Galson Chemical Inventory Report

05/09/2016 11:22

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
26695	HYDROCHLORIC ACID	METALS ACID CABI	14MT	03/01/2016	11/16/2018	04/13/2016	

Vendor Fisher ***Manufacturer*** FISHER ***Lot No*** 4115100

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7647-01-0	HYDROCHLORIC ACID	36	

Galson Chemical Inventory Report

05/12/2016 11:47

Ref	Description	Location	Dept	Date Received	Expire Date	Dispose Date	D
26983	NITRIC ACID	METALS ACID CABI	14MT	04/20/2016	11/19/2017	04/27/2016	

Vendor Fisher ***Manufacturer*** FISHER ***Lot No*** 1115110

Comments

Cas Num	Chemical Name	% Purity	Conc(ug/mL)
7697-37-2	NITRIC ACID	69	

Galson Laboratories - Standards Report

Lot: IH628043

05/09/2016

Derivatizing Agent: N/A

Standard ID:	Description:	Final Volume:	Analyst:	Prep. Date:	Expiration Date:
IH628043	Hg @ 1ppm - BS/BSD/ - Curve	50.0000 mL	PLISZEWSKI	04/28/2016	04/29/2016

Component ID(s)		Initial Vol.		Analyst	Expiration Date
17975	MILLIQ WATER	49.4500	ml	NA	03/25/2035

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7732-18-5	Water			

Component ID(s)		Initial Vol.		Analyst	Expiration Date
25289	MERCURY	0.0500	ml	NA	06/19/2016

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7439-97-6	MERCURY	1,002.0000 ug/mL		1.0020 ug/mL

Component ID(s)		Initial Vol.		Analyst	Expiration Date
26988	NITRIC ACID	0.5000	ml	NA	11/19/2017

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7697-37-2	NITRIC ACID			

Galson Laboratories - Standards Report

Lot: IH628062

05/09/2016

Derivatizing Agent: N/A

Standard ID:	Description:	Final Volume:	Analyst:	Prep. Date:	Expiration Date:
IH628062	Hg @ 1ppm - CCV	50.0000 mL	PLISZEWSKI	04/28/2016	04/29/2016

Component ID(s)		Initial Vol.		Analyst	Expiration Date
17975	MILLIQ WATER	49.4500	ml	NA	03/25/2035

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7732-18-5	Water			

Component ID(s)		Initial Vol.		Analyst	Expiration Date
25286	MERCURY	0.0500	ml	NA	06/19/2016

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7439-97-6	MERCURY	1,003.0000 ug/mL		1.0030 ug/mL

Component ID(s)		Initial Vol.		Analyst	Expiration Date
26988	NITRIC ACID	0.5000	ml	NA	11/19/2017

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7697-37-2	NITRIC ACID			

Galson Laboratories - Standards Report

Lot: IH627782

05/10/2016

Derivatizing Agent: N/A

Standard ID:	Description:	Final Volume:	Analyst:	Prep. Date:	Expiration Date:
IH627782	Hg BS BSD	50.0000 mL	ASPARANO	04/27/2016	04/28/2016

Component ID(s)		Initial Vol.		Analyst	Expiration Date
17975	MILLIQ WATER	49.4500	ML	NA	03/25/2035

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7732-18-5	Water			

Component ID(s)		Initial Vol.		Analyst	Expiration Date
25289	MERCURY	0.0500	ML	NA	06/19/2016

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7439-97-6	MERCURY	1,002.0000 ug/mL		1.0020 ug/mL

Component ID(s)		Initial Vol.		Analyst	Expiration Date
26983	NITRIC ACID	0.5000	ML	NA	11/19/2017

CAS #	Description	Initial Conc.	Initial Weight	Final Conc.
7697-37-2	NITRIC ACID			

B-2
Soil

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-124511-1
Client Project/Site: Site Investigation/JMB5
Revision: 1

For:
Earth Toxics, Inc
PO BOX 3382
Logan, Utah 84321

Attn: Mike Dryden

Authorized for release by:
5/13/2016 6:29:52 PM
Robert Bearden, Project Manager I
(912)354-7858
robert.bearden@testamericainc.com

Designee for

Michele Kersey, Project Manager I
(912)354-7858
michele.kersey@testamericainc.com

Definitions/Glossary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Qualifiers

Metals

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
B	Blank contamination: The analyte was detected above one-half the reporting limit in an associated blank.
D	The reported value is from a dilution.
Q	One or more quality control criteria failed.
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.

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 ra io
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)

Sample Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-124511-1	AOP SB S01	Solid	10/15/15 10:05	04/26/16 10:00
680-124511-2	AOP SB S02	Solid	10/15/15 10:10	04/26/16 10:00
680-124511-3	AOP SB S03	Solid	10/15/15 10:15	04/26/16 10:00
680-124511-4	AOP CB S03	Solid	10/15/15 10:15	04/26/16 10:00
680-124511-5	AOP SB S04	Solid	10/15/15 10:20	04/26/16 10:00
680-124511-6	AOP SB S05	Solid	10/15/15 10:25	04/26/16 10:00
680-124511-7	AOP SB S06	Solid	10/15/15 10:30	04/26/16 10:00
680-124511-8	AOP SB S07	Solid	10/15/15 10:40	04/26/16 10:00
680-124511-9	AOP SB S08	Solid	10/15/15 10:45	04/26/16 10:00
680-124511-10	AOP SB S09	Solid	10/15/15 11:10	04/26/16 10:00
680-124511-11	AOP SB S10	Solid	10/15/15 11:05	04/26/16 10:00
680-124511-12	AOP SB S11	Solid	10/15/15 11:20	04/26/16 10:00
680-124511-13	AOP SB S12	Solid	10/15/15 11:25	04/26/16 10:00
680-124511-14	AOP SB S13	Solid	10/15/15 11:30	04/26/16 10:00
680-124511-15	AOP SB S14	Solid	10/15/15 11:35	04/26/16 10:00
680-124511-16	AOP CB S14	Solid	10/15/15 11:35	04/26/16 10:00

Job ID: 680-124511-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Earth Toxics, Inc

Project: Site Investigation/JMB5

Report Number: 680-124511-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

REVISED REPORT

This report constitutes a revised report. The original report was re-issed to incorporate dry weight correction for soils and edits to the Case Narrative text.

RECEIPT

The samples were received on 4/26/2016 10:00 AM. The samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 4.4º C.

Receipt Exceptions

The following samples was received outside of holding time: AOP SB S01 (680-124511-1), AOP SB S02 (680-124511-2), AOP SB S03 (680-124511-3), AOP CB S03 (680-124511-4), AOP SB S04 (680-124511-5), AOP SB S05 (680-124511-6), AOP SB S06 (680-124511-7), AOP SB S07 (680-124511-8), AOP SB S08 (680-124511-9), AOP SB S09 (680-124511-10), AOP SB S09 (680-124511-10[MS]), AOP SB S09 (680-124511-10[MSD]), AOP SB S10 (680-124511-11), AOP SB S11 (680-124511-12), AOP SB S12 (680-124511-13), AOP SB S13 (680-124511-14), AOP SB S14 (680-124511-15) and AOP CB S14 (680-124511-16).

The client was contacted on 4/26/16 and advised to proceed with metals analysis minus mercury.

METALS (ICP-MS)

Samples AOP SB S01 (680-124511-1), AOP SB S02 (680-124511-2), AOP SB S03 (680-124511-3), AOP CB S03 (680-124511-4), AOP SB S04 (680-124511-5), AOP SB S05 (680-124511-6), AOP SB S06 (680-124511-7), AOP SB S07 (680-124511-8), AOP SB S08 (680-124511-9), AOP SB S09 (680-124511-10), AOP SB S10 (680-124511-11), AOP SB S11 (680-124511-12), AOP SB S12 (680-124511-13), AOP SB S13 (680-124511-14), and AOP SB S14 (680-124511-15) and AOP CB S14 (680-124511-16) were analyzed for Metals (ICP-MS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 04/27/2016 and analyzed on 04/28/2016, 05/05/2016 and 05/07/2016.

The interference check standard solutions (ICSA) (ICSA 680-432053/20 and ICSA 680-432423/19) associated with the following samples showed results for chromium at a level greater than the limit of detection (LOD): 680-124511-1, 680-124511-2, 680-124511-3, 680-124511-4,680-124511-5, 680-124511-6, 680-124511-7, 680-124511-8, 680-124511-9, 680-124511-10, 680-124511-11, 680-124511-12, 680-124511-13, 680-124511-14, 680-124511-15, and 680-124511-16.

Several analytes were detected in method blank MB 680-430812/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

Samples AOP SB S01 (680-124511-1)[10X], AOP SB S01 (680-124511-1)[2X], AOP SB S02 (680-124511-2)[2X], AOP SB S03 (680-124511-3)[10X], AOP SB S03 (680-124511-3)[2X], AOP CB S03 (680-124511-4)[2X], AOP SB S04 (680-124511-5)[2X], AOP SB S05 (680-124511-6)[2X], AOP SB S06 (680-124511-7)[2X], AOP SB S07 (680-124511-8)[10X], AOP SB S07 (680-124511-8)[2X], AOP SB S08

Job ID: 680-124511-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-124511-9)[2X], AOP SB S09 (680-124511-10)[10X], AOP SB S09 (680-124511-10)[2X], AOP SB S10 (680-124511-11)[10X], AOP SB S11 (680-124511-12)[10X], AOP SB S11 (680-124511-12)[2X], AOP SB S12 (680-124511-13)[2X], AOP SB S13 (680-124511-14)[2X], AOP SB S14 (680-124511-15)[10X], AOP SB S14 (680-124511-15)[2X] and AOP CB S14 (680-124511-16)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Client Sample ID: AOP SB S01

Lab Sample ID: 680-124511-1

Date Collected: 10/15/15 10:05
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 90.2

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	H	9.7	2.0	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Antimony	0.29	U H	0.97	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Arsenic	1.4	H	0.29	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Barium	26	H	0.49	0.058	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Beryllium	0.17	H D	0.097	0.029	mg/Kg	☼	04/27/16 07:31	05/05/16 02:20	2
Cadmium	0.23	H	0.049	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Calcium	5900	H	49	6.1	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Chromium	740	H D Q	9.7	1.1	mg/Kg	☼	04/27/16 07:31	05/05/16 02:25	10
Cobalt	81	H D	0.097	0.019	mg/Kg	☼	04/27/16 07:31	05/05/16 02:20	2
Copper	38	H D	0.97	0.25	mg/Kg	☼	04/27/16 07:31	05/05/16 02:20	2
Iron	34000	H	24	3.4	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Lead	7.3	H	0.19	0.049	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Magnesium	98000	H D	240	32	mg/Kg	☼	04/27/16 07:31	05/05/16 02:25	10
Manganese	850	H D	1.9	0.23	mg/Kg	☼	04/27/16 07:31	05/05/16 02:20	2
Nickel	1400	H	0.97	0.25	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Potassium	1700	H	24	8.8	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Selenium	0.18	J H	0.49	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Silver	0.038	J H	0.097	0.0097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Sodium	63	H	39	9.7	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Thallium	0.097	U H	0.097	0.049	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Vanadium	64	H	0.49	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1
Zinc	49	H B	1.9	0.97	mg/Kg	☼	04/27/16 07:31	04/28/16 17:38	1

Client Sample ID: AOP SB S02

Lab Sample ID: 680-124511-2

Date Collected: 10/15/15 10:10
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	H	10	2.1	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Antimony	0.29	J H	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Arsenic	1.2	H	0.30	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Barium	40	H	0.50	0.060	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Beryllium	0.26	H	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Cadmium	0.66	H	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Calcium	4700	H	50	6.3	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Chromium	820	H D Q	2.0	0.22	mg/Kg	☼	04/27/16 07:31	05/07/16 15:38	2
Cobalt	93	H D	0.10	0.020	mg/Kg	☼	04/27/16 07:31	05/07/16 15:38	2
Copper	45	H D Q	1.0	0.26	mg/Kg	☼	04/27/16 07:31	05/07/16 15:38	2
Iron	35000	H	25	3.5	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Lead	6.2	H	0.20	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Magnesium	51000	H	25	3.3	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Manganese	1100	H D	2.0	0.24	mg/Kg	☼	04/27/16 07:31	05/07/16 15:38	2
Nickel	1500	H	1.0	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Potassium	1900	H	25	9.1	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Selenium	0.23	J H	0.50	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Silver	0.046	J H	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Sodium	67	H	40	10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Thallium	0.054	J H	0.10	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S02

Lab Sample ID: 680-124511-2
Date Collected: 10/15/15 10:10
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.5

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	73	H	0.50	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1
Zinc	60	H B	2.0	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 16:45	1

Client Sample ID: AOP SB S03

Lab Sample ID: 680-124511-3
Date Collected: 10/15/15 10:15
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 86.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	H	10	2.1	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Antimony	0.42	J H	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Arsenic	1.3	H D	0.60	0.20	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Barium	38	H	0.50	0.060	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Beryllium	0.22	H D	0.10	0.030	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Cadmium	1.4	H	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Calcium	5700	H	50	6.3	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Chromium	790	H D Q	10	1.1	mg/Kg	☼	04/27/16 07:31	05/07/16 16:03	10
Cobalt	77	H D	0.10	0.020	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Copper	39	H D	1.0	0.26	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Iron	35000	H	25	3.5	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Lead	8.5	H	0.20	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Magnesium	92000	H D	250	33	mg/Kg	☼	04/27/16 07:31	05/07/16 16:03	10
Manganese	960	H D	2.0	0.24	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Nickel	1400	H D	2.0	0.52	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Potassium	1700	H D	50	18	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Selenium	0.20	J H	0.50	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Silver	0.051	J H	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Sodium	80	H	40	10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Thallium	0.10	U H	0.10	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1
Vanadium	68	H D	1.0	0.54	mg/Kg	☼	04/27/16 07:31	05/05/16 03:16	2
Zinc	91	H B	2.0	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 18:18	1

Client Sample ID: AOP CB S03

Lab Sample ID: 680-124511-4
Date Collected: 10/15/15 10:15
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.9

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	H	10	2.1	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Antimony	0.41	J H	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Arsenic	1.2	H	0.31	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Barium	37	H	0.51	0.061	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Beryllium	0.26	H	0.051	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Cadmium	1.5	H	0.051	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Calcium	5700	H	51	6.4	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Chromium	800	H D Q	2.0	0.22	mg/Kg	☼	04/27/16 07:31	05/07/16 15:47	2
Cobalt	84	H D	0.10	0.020	mg/Kg	☼	04/27/16 07:31	05/07/16 15:47	2
Copper	41	H D Q	1.0	0.27	mg/Kg	☼	04/27/16 07:31	05/07/16 15:47	2
Iron	35000	H	26	3.6	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Lead	8.7	H	0.20	0.051	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1

Client Sample ID: AOP CB S03

Lab Sample ID: 680-124511-4

Date Collected: 10/15/15 10:15
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.9

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	48000	H	26	3.4	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Manganese	1000	H D	2.0	0.24	mg/Kg	☼	04/27/16 07:31	05/07/16 15:47	2
Nickel	1400	H	1.0	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Potassium	1700	H	26	9.3	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Selenium	0.16	J H	0.51	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Silver	0.040	J H	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Sodium	97	H	41	10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Thallium	0.10	U H	0.10	0.051	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Vanadium	70	H	0.51	0.28	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1
Zinc	92	H B	2.0	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 16:58	1

Client Sample ID: AOP SB S04

Lab Sample ID: 680-124511-5

Date Collected: 10/15/15 10:20
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 76.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	H	11	2.4	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Antimony	1.3	H	1.1	0.11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Arsenic	1.9	H	0.34	0.11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Barium	45	H	0.57	0.069	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Beryllium	0.18	H D	0.11	0.034	mg/Kg	☼	04/27/16 07:31	05/05/16 02:45	2
Cadmium	0.53	H	0.057	0.017	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Calcium	4800	H	57	7.2	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Chromium	810	H D Q	2.3	0.25	mg/Kg	☼	04/27/16 07:31	05/05/16 02:45	2
Cobalt	79	H D	0.11	0.023	mg/Kg	☼	04/27/16 07:31	05/05/16 02:45	2
Copper	42	H D	1.1	0.30	mg/Kg	☼	04/27/16 07:31	05/05/16 02:45	2
Iron	40000	H	29	4.0	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Lead	6.6	H	0.23	0.057	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Magnesium	88000	H D	57	7.5	mg/Kg	☼	04/27/16 07:31	05/05/16 02:45	2
Manganese	950	H D	2.3	0.27	mg/Kg	☼	04/27/16 07:31	05/05/16 02:45	2
Nickel	1700	H	1.1	0.30	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Potassium	2100	H	29	10	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Selenium	0.29	J H	0.57	0.11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Silver	0.052	J H	0.11	0.011	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Sodium	94	H	46	11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Thallium	0.11	U H	0.11	0.057	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Vanadium	77	H	0.57	0.31	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1
Zinc	58	H B	2.3	1.1	mg/Kg	☼	04/27/16 07:31	04/28/16 17:58	1

Client Sample ID: AOP SB S05

Lab Sample ID: 680-124511-6

Date Collected: 10/15/15 10:25
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 83.7

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	H	10	2.2	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Antimony	0.20	J H	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Arsenic	1.8	H	0.31	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Barium	46	H	0.51	0.062	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S05

Lab Sample ID: 680-124511-6

Date Collected: 10/15/15 10:25
Date Received: 04/26/16 10:00

Matrix: Solid
Percent Solids: 83.7

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	0.26	H D	0.10	0.031	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Cadmium	0.15	H	0.051	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Calcium	6200	H	51	6.5	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Chromium	790	H D Q	2.1	0.23	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Cobalt	78	H D	0.10	0.021	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Copper	37	H D	1.0	0.27	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Iron	55000	H D	51	7.2	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Lead	5.6	H	0.21	0.051	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Magnesium	87000	H D	51	6.8	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Manganese	1000	H D	2.1	0.25	mg/Kg	☼	04/27/16 07:31	05/05/16 03:21	2
Nickel	1500	H	1.0	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Potassium	1900	H	26	9.4	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Selenium	0.19	J H	0.51	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Silver	0.053	J H	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Sodium	84	H	41	10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Thallium	0.10	U H	0.10	0.051	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Vanadium	80	H	0.51	0.28	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1
Zinc	55	H B	2.1	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 18:38	1

Client Sample ID: AOP SB S06

Lab Sample ID: 680-124511-7

Date Collected: 10/15/15 10:30
Date Received: 04/26/16 10:00

Matrix: Solid
Percent Solids: 89.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	H	9.7	2.0	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Antimony	0.35	J H	0.97	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Arsenic	2.0	H	0.29	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Barium	48	H	0.48	0.058	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Beryllium	0.21	H D	0.097	0.029	mg/Kg	☼	04/27/16 07:31	05/05/16 02:40	2
Cadmium	0.40	H	0.048	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Calcium	7600	H	48	6.1	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Chromium	710	H D Q	1.9	0.21	mg/Kg	☼	04/27/16 07:31	05/05/16 02:40	2
Cobalt	79	H D	0.097	0.019	mg/Kg	☼	04/27/16 07:31	05/05/16 02:40	2
Copper	38	H D	0.97	0.25	mg/Kg	☼	04/27/16 07:31	05/05/16 02:40	2
Iron	32000	H	24	3.4	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Lead	15	H	0.19	0.048	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Magnesium	87000	H D	48	6.4	mg/Kg	☼	04/27/16 07:31	05/05/16 02:40	2
Manganese	950	H D	1.9	0.23	mg/Kg	☼	04/27/16 07:31	05/05/16 02:40	2
Nickel	1300	H	0.97	0.25	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Potassium	2200	H	24	8.8	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Selenium	0.18	J H	0.48	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Silver	0.045	J H	0.097	0.0097	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Sodium	77	H	39	9.7	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Thallium	0.097	U H	0.097	0.048	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Vanadium	72	H	0.48	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1
Zinc	72	H B	1.9	0.97	mg/Kg	☼	04/27/16 07:31	04/28/16 17:52	1

Client Sample ID: AOP SB S07

Lab Sample ID: 680-124511-8

Date Collected: 10/15/15 10:40
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 87.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	H	9.7	2.0	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Antimony	0.36	J H	0.97	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Arsenic	1.5	H	0.29	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Barium	32	H	0.49	0.058	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Beryllium	0.20	H D	0.097	0.029	mg/Kg	☼	04/27/16 07:31	05/05/16 02:55	2
Cadmium	0.21	H	0.049	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Calcium	12000	H	49	6.1	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Chromium	680	H D Q	9.7	1.1	mg/Kg	☼	04/27/16 07:31	05/05/16 03:11	10
Cobalt	83	H D	0.097	0.019	mg/Kg	☼	04/27/16 07:31	05/05/16 02:55	2
Copper	42	H D	0.97	0.25	mg/Kg	☼	04/27/16 07:31	05/05/16 02:55	2
Iron	37000	H	24	3.4	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Lead	14	H	0.19	0.049	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Magnesium	100000	H D	240	32	mg/Kg	☼	04/27/16 07:31	05/05/16 03:11	10
Manganese	980	H D	1.9	0.23	mg/Kg	☼	04/27/16 07:31	05/05/16 02:55	2
Nickel	1500	H	0.97	0.25	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Potassium	1900	H	24	8.9	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Selenium	0.15	J H	0.49	0.097	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Silver	0.049	J H	0.097	0.0097	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Sodium	86	H	39	9.7	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Thallium	0.097	U H	0.097	0.049	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Vanadium	68	H	0.49	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1
Zinc	80	H B	1.9	0.97	mg/Kg	☼	04/27/16 07:31	04/28/16 18:11	1

Client Sample ID: AOP SB S08

Lab Sample ID: 680-124511-9

Date Collected: 10/15/15 10:45
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 81.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	H	10	2.2	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Antimony	0.23	J H	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Arsenic	1.6	H	0.31	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Barium	40	H	0.52	0.062	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Beryllium	0.21	H D	0.10	0.031	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Cadmium	0.22	H	0.052	0.016	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Calcium	8800	H	52	6.6	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Chromium	660	H D Q	2.1	0.23	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Cobalt	76	H D	0.10	0.021	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Copper	38	H D	1.0	0.27	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Iron	52000	H D	52	7.3	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Lead	11	H	0.21	0.052	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Magnesium	91000	H D	52	6.9	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Manganese	950	H D	2.1	0.25	mg/Kg	☼	04/27/16 07:31	05/05/16 03:26	2
Nickel	1400	H	1.0	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Potassium	2700	H	26	9.5	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Selenium	0.25	J H	0.52	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Silver	0.043	J H	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Sodium	210	H	42	10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Thallium	0.10	U H	0.10	0.052	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1
Vanadium	66	H	0.52	0.28	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1

Client Sample ID: AOP SB S08

Lab Sample ID: 680-124511-9
Date Collected: 10/15/15 10:45
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 81.4

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	79	H B	2.1	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 18:45	1

Client Sample ID: AOP SB S09

Lab Sample ID: 680-124511-10
Date Collected: 10/15/15 11:10
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.5

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18000	H D J	20	4.2	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Antimony	0.59	H J	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Arsenic	1.7	H J	0.30	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Barium	23	H J	0.50	0.060	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Beryllium	0.21	H J	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Cadmium	0.33	H J	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Calcium	14000	H D J	100	13	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Chromium	680	H D J Q	2.0	0.22	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Cobalt	69	H D J	0.10	0.020	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Copper	50	H D J Q	1.0	0.26	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Iron	53000	H D J	50	7.0	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Lead	26	H J	0.20	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Magnesium	100000	H D J	250	33	mg/Kg	☼	04/27/16 07:31	05/07/16 15:02	10
Manganese	780	H D J	2.0	0.24	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Nickel	1200	H J	1.0	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Potassium	1000	H J	25	9.1	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Selenium	0.14	H J	0.50	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Silver	0.036	H J	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Sodium	250	H D	80	20	mg/Kg	☼	04/27/16 07:31	05/07/16 14:37	2
Thallium	0.10	U H J	0.10	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Vanadium	70	H J	0.50	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1
Zinc	74	H B J	2.0	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 16:11	1

Client Sample ID: AOP SB S10

Lab Sample ID: 680-124511-11
Date Collected: 10/15/15 11:05
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 86.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	H	9.9	2.1	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Antimony	0.64	J H	0.99	0.099	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Arsenic	2.7	H	0.30	0.099	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Barium	40	H	0.50	0.060	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Beryllium	0.24	J H D	0.50	0.15	mg/Kg	☼	04/27/16 07:31	05/07/16 15:58	10
Cadmium	0.29	H	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Calcium	11000	H	50	6.3	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Chromium	690	H D Q	9.9	1.1	mg/Kg	☼	04/27/16 07:31	05/07/16 15:58	10
Cobalt	75	H D	0.50	0.099	mg/Kg	☼	04/27/16 07:31	05/07/16 15:58	10
Copper	60	H D Q	5.0	1.3	mg/Kg	☼	04/27/16 07:31	05/07/16 15:58	10
Iron	32000	H	25	3.5	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Lead	42	H	0.20	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Magnesium	88000	H D	250	33	mg/Kg	☼	04/27/16 07:31	05/07/16 15:58	10

Client Sample ID: AOP SB S10

Lab Sample ID: 680-124511-11

Date Collected: 10/15/15 11:05
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 86.8

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	900	H D	9.9	1.2	mg/Kg	☼	04/27/16 07:31	05/07/16 15:58	10
Nickel	1200	H	0.99	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Potassium	1400	H	25	9.0	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Selenium	0.18	J H	0.50	0.099	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Silver	0.049	J H	0.099	0.0099	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Sodium	270	H	40	9.9	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Thallium	0.099	U H	0.099	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Vanadium	71	H	0.50	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1
Zinc	89	H B	2.0	0.99	mg/Kg	☼	04/27/16 07:31	04/28/16 17:25	1

Client Sample ID: AOP SB S11

Lab Sample ID: 680-124511-12

Date Collected: 10/15/15 11:20
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 81.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	H	11	2.3	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Antimony	0.32	U H	1.1	0.11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Arsenic	1.1	H	0.32	0.11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Barium	32	H	0.54	0.064	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Beryllium	0.14	H D	0.11	0.032	mg/Kg	☼	04/27/16 07:31	05/05/16 02:10	2
Cadmium	0.11	H	0.054	0.016	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Calcium	11000	H	54	6.8	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Chromium	620	H D Q	11	1.2	mg/Kg	☼	04/27/16 07:31	05/05/16 02:15	10
Cobalt	75	H D	0.11	0.021	mg/Kg	☼	04/27/16 07:31	05/05/16 02:10	2
Copper	34	H D	1.1	0.28	mg/Kg	☼	04/27/16 07:31	05/05/16 02:10	2
Iron	32000	H	27	3.8	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Lead	17	H	0.21	0.054	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Magnesium	100000	H D	270	35	mg/Kg	☼	04/27/16 07:31	05/05/16 02:15	10
Manganese	800	H D	2.1	0.26	mg/Kg	☼	04/27/16 07:31	05/05/16 02:10	2
Nickel	1500	H	1.1	0.28	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Potassium	1400	H	27	9.8	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Selenium	0.13	J H	0.54	0.11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Silver	0.029	J H	0.11	0.011	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Sodium	91	H	43	11	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Thallium	0.11	U H	0.11	0.054	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Vanadium	68	H	0.54	0.29	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1
Zinc	55	H B	2.1	1.1	mg/Kg	☼	04/27/16 07:31	04/28/16 17:32	1

Client Sample ID: AOP SB S12

Lab Sample ID: 680-124511-13

Date Collected: 10/15/15 11:25
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 90.8

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	H	9.5	2.0	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Antimony	0.28	U H	0.95	0.095	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Arsenic	1.4	H	0.28	0.095	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Barium	28	H	0.47	0.057	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Beryllium	0.20	H	0.047	0.014	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S12

Lab Sample ID: 680-124511-13

Date Collected: 10/15/15 11:25
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 90.8

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.15	H	0.047	0.014	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Calcium	30000	H	47	6.0	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Chromium	620	H D Q	1.9	0.21	mg/Kg	☼	04/27/16 07:31	05/07/16 15:43	2
Cobalt	77	H D	0.095	0.019	mg/Kg	☼	04/27/16 07:31	05/07/16 15:43	2
Copper	34	H D Q	0.95	0.25	mg/Kg	☼	04/27/16 07:31	05/07/16 15:43	2
Iron	30000	H	24	3.3	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Lead	30	H	0.19	0.047	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Magnesium	52000	H	24	3.1	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Manganese	790	H D	1.9	0.23	mg/Kg	☼	04/27/16 07:31	05/07/16 15:43	2
Nickel	1400	H	0.95	0.25	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Potassium	1500	H	24	8.6	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Selenium	0.17	J H	0.47	0.095	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Silver	0.028	J H	0.095	0.0095	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Sodium	180	H	38	9.5	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Thallium	0.095	U H	0.095	0.047	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Vanadium	65	H	0.47	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1
Zinc	58	H B	1.9	0.95	mg/Kg	☼	04/27/16 07:31	04/28/16 16:51	1

Client Sample ID: AOP SB S13

Lab Sample ID: 680-124511-14

Date Collected: 10/15/15 11:30
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 87.0

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	12000	H	10	2.1	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Antimony	0.11	J H	1.0	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Arsenic	1.6	H	0.30	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Barium	57	H	0.50	0.061	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Beryllium	0.22	H D	0.10	0.030	mg/Kg	☼	04/27/16 07:31	05/05/16 02:50	2
Cadmium	0.16	H	0.050	0.015	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Calcium	5400	H	50	6.4	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Chromium	850	H D Q	2.0	0.22	mg/Kg	☼	04/27/16 07:31	05/05/16 02:50	2
Cobalt	94	H D	0.10	0.020	mg/Kg	☼	04/27/16 07:31	05/05/16 02:50	2
Copper	43	H D	1.0	0.26	mg/Kg	☼	04/27/16 07:31	05/05/16 02:50	2
Iron	37000	H	25	3.5	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Lead	38	H	0.20	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Magnesium	87000	H D	50	6.7	mg/Kg	☼	04/27/16 07:31	05/05/16 02:50	2
Manganese	1000	H D	2.0	0.24	mg/Kg	☼	04/27/16 07:31	05/05/16 02:50	2
Nickel	1700	H	1.0	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Potassium	2300	H	25	9.2	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Selenium	0.27	J H	0.50	0.10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Silver	0.046	J H	0.10	0.010	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Sodium	100	H	40	10	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Thallium	0.10	U H	0.10	0.050	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Vanadium	82	H	0.50	0.27	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1
Zinc	72	H B	2.0	1.0	mg/Kg	☼	04/27/16 07:31	04/28/16 18:05	1

Client Sample ID: AOP SB S14

Lab Sample ID: 680-124511-15

Date Collected: 10/15/15 11:35
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 92.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	10000	H	9.1	1.9	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Antimony	0.27	U H	0.91	0.091	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Arsenic	1.2	H	0.27	0.091	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Barium	24	H	0.45	0.055	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Beryllium	0.14	H D	0.091	0.027	mg/Kg	☼	04/27/16 07:31	05/05/16 02:30	2
Cadmium	0.17	H	0.045	0.014	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Calcium	11000	H	45	5.7	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Chromium	730	H D Q	9.1	1.0	mg/Kg	☼	04/27/16 07:31	05/05/16 02:35	10
Cobalt	83	H D	0.091	0.018	mg/Kg	☼	04/27/16 07:31	05/05/16 02:30	2
Copper	31	H D	0.91	0.24	mg/Kg	☼	04/27/16 07:31	05/05/16 02:30	2
Iron	29000	H	23	3.2	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Lead	19	H	0.18	0.045	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Magnesium	120000	H D	230	30	mg/Kg	☼	04/27/16 07:31	05/05/16 02:35	10
Manganese	790	H D	1.8	0.22	mg/Kg	☼	04/27/16 07:31	05/05/16 02:30	2
Nickel	1700	H	0.91	0.24	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Potassium	1100	H	23	8.3	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Selenium	0.21	J H	0.45	0.091	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Silver	0.034	J H	0.091	0.0091	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Sodium	78	H	36	9.1	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Thallium	0.091	U H	0.091	0.045	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Vanadium	73	H	0.45	0.25	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1
Zinc	85	H B	1.8	0.91	mg/Kg	☼	04/27/16 07:31	04/28/16 17:45	1

Client Sample ID: AOP CB S14

Lab Sample ID: 680-124511-16

Date Collected: 10/15/15 11:35
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 92.4

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	11000	H	9.5	2.0	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Antimony	0.28	U H	0.95	0.095	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Arsenic	1.0	H	0.28	0.095	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Barium	23	H	0.47	0.057	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Beryllium	0.23	J H D	0.47	0.14	mg/Kg	☼	04/27/16 07:31	05/07/16 15:53	10
Cadmium	0.17	H	0.047	0.014	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Calcium	12000	H	47	6.0	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Chromium	760	H D Q	9.5	1.0	mg/Kg	☼	04/27/16 07:31	05/07/16 15:53	10
Cobalt	96	H D	0.47	0.095	mg/Kg	☼	04/27/16 07:31	05/07/16 15:53	10
Copper	36	H D Q	4.7	1.2	mg/Kg	☼	04/27/16 07:31	05/07/16 15:53	10
Iron	30000	H	24	3.3	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Lead	19	H	0.19	0.047	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Magnesium	120000	H D	240	31	mg/Kg	☼	04/27/16 07:31	05/07/16 15:53	10
Manganese	900	H D	9.5	1.1	mg/Kg	☼	04/27/16 07:31	05/07/16 15:53	10
Nickel	1600	H	0.95	0.25	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Potassium	1000	H	24	8.6	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Selenium	0.22	J H	0.47	0.095	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Silver	0.032	J H	0.095	0.0095	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Sodium	90	H	38	9.5	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Thallium	0.095	U H	0.095	0.047	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1
Vanadium	68	H	0.47	0.26	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP CB S14
Date Collected: 10/15/15 11:35
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124511-16
Matrix: Solid
Percent Solids: 92.4

Method: 6020A - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	83	H B	1.9	0.95	mg/Kg	☼	04/27/16 07:31	04/28/16 17:18	1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-430812/1-A
Matrix: Solid
Analysis Batch: 431271

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430812

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4.24	J	9.4	2.0	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Antimony	0.28	U	0.94	0.094	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Arsenic	0.28	U	0.28	0.094	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Barium	0.14	U	0.47	0.057	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Beryllium	0.038	U	0.047	0.014	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Cadmium	0.038	U	0.047	0.014	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Calcium	6.32	J	47	5.9	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Iron	4.67	J	24	3.3	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Lead	0.14	U	0.19	0.047	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Magnesium	6.43	J	24	3.1	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Nickel	0.71	U	0.94	0.25	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Potassium	24	U	24	8.6	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Selenium	0.28	U	0.47	0.094	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Silver	0.028	U	0.094	0.0094	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Sodium	13.0	J	38	9.4	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Thallium	0.094	U	0.094	0.047	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Vanadium	0.47	U	0.47	0.25	mg/Kg		04/27/16 07:31	04/28/16 15:58	1
Zinc	1.72	J	1.9	0.94	mg/Kg		04/27/16 07:31	04/28/16 15:58	1

Lab Sample ID: MB 680-430812/1-A
Matrix: Solid
Analysis Batch: 432423

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430812

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	0.100	J Q	0.94	0.10	mg/Kg		04/27/16 07:31	05/07/16 14:27	1
Cobalt	0.028	U	0.047	0.0094	mg/Kg		04/27/16 07:31	05/07/16 14:27	1
Copper	0.28	U Q	0.47	0.12	mg/Kg		04/27/16 07:31	05/07/16 14:27	1
Manganese	0.28	U	0.94	0.11	mg/Kg		04/27/16 07:31	05/07/16 14:27	1

Metals

Prep Batch: 430812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124511-1	AOP SB S01	Total/NA	Solid	3050B	
680-124511-2	AOP SB S02	Total/NA	Solid	3050B	
680-124511-3	AOP SB S03	Total/NA	Solid	3050B	
680-124511-4	AOP CB S03	Total/NA	Solid	3050B	
680-124511-5	AOP SB S04	Total/NA	Solid	3050B	
680-124511-6	AOP SB S05	Total/NA	Solid	3050B	
680-124511-7	AOP SB S06	Total/NA	Solid	3050B	
680-124511-8	AOP SB S07	Total/NA	Solid	3050B	
680-124511-9	AOP SB S08	Total/NA	Solid	3050B	
680-124511-10	AOP SB S09	Total/NA	Solid	3050B	
680-124511-10 MS	AOP SB S09	Total/NA	Solid	3050B	
680-124511-10 MSD	AOP SB S09	Total/NA	Solid	3050B	
680-124511-11	AOP SB S10	Total/NA	Solid	3050B	
680-124511-12	AOP SB S11	Total/NA	Solid	3050B	
680-124511-13	AOP SB S12	Total/NA	Solid	3050B	
680-124511-14	AOP SB S13	Total/NA	Solid	3050B	
680-124511-15	AOP SB S14	Total/NA	Solid	3050B	
680-124511-16	AOP CB S14	Total/NA	Solid	3050B	
LCS 680-430812/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-430812/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 431271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124511-1	AOP SB S01	Total/NA	Solid	6020A	430812
680-124511-2	AOP SB S02	Total/NA	Solid	6020A	430812
680-124511-3	AOP SB S03	Total/NA	Solid	6020A	430812
680-124511-4	AOP CB S03	Total/NA	Solid	6020A	430812
680-124511-5	AOP SB S04	Total/NA	Solid	6020A	430812
680-124511-6	AOP SB S05	Total/NA	Solid	6020A	430812
680-124511-7	AOP SB S06	Total/NA	Solid	6020A	430812
680-124511-8	AOP SB S07	Total/NA	Solid	6020A	430812
680-124511-9	AOP SB S08	Total/NA	Solid	6020A	430812
680-124511-10	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10 MS	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10 MSD	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-11	AOP SB S10	Total/NA	Solid	6020A	430812
680-124511-12	AOP SB S11	Total/NA	Solid	6020A	430812
680-124511-13	AOP SB S12	Total/NA	Solid	6020A	430812
680-124511-14	AOP SB S13	Total/NA	Solid	6020A	430812
680-124511-15	AOP SB S14	Total/NA	Solid	6020A	430812
680-124511-16	AOP CB S14	Total/NA	Solid	6020A	430812
LCS 680-430812/2-A	Lab Control Sample	Total/NA	Solid	6020A	430812
MB 680-430812/1-A	Method Blank	Total/NA	Solid	6020A	430812

Analysis Batch: 432053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124511-1	AOP SB S01	Total/NA	Solid	6020A	430812
680-124511-1	AOP SB S01	Total/NA	Solid	6020A	430812
680-124511-3	AOP SB S03	Total/NA	Solid	6020A	430812
680-124511-5	AOP SB S04	Total/NA	Solid	6020A	430812
680-124511-6	AOP SB S05	Total/NA	Solid	6020A	430812

Metals (Continued)

Analysis Batch: 432053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124511-7	AOP SB S06	Total/NA	Solid	6020A	430812
680-124511-8	AOP SB S07	Total/NA	Solid	6020A	430812
680-124511-8	AOP SB S07	Total/NA	Solid	6020A	430812
680-124511-9	AOP SB S08	Total/NA	Solid	6020A	430812
680-124511-12	AOP SB S11	Total/NA	Solid	6020A	430812
680-124511-12	AOP SB S11	Total/NA	Solid	6020A	430812
680-124511-14	AOP SB S13	Total/NA	Solid	6020A	430812
680-124511-15	AOP SB S14	Total/NA	Solid	6020A	430812
680-124511-15	AOP SB S14	Total/NA	Solid	6020A	430812

Analysis Batch: 432423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124511-2	AOP SB S02	Total/NA	Solid	6020A	430812
680-124511-3	AOP SB S03	Total/NA	Solid	6020A	430812
680-124511-4	AOP CB S03	Total/NA	Solid	6020A	430812
680-124511-10	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10 MS	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10 MS	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10 MSD	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-10 MSD	AOP SB S09	Total/NA	Solid	6020A	430812
680-124511-11	AOP SB S10	Total/NA	Solid	6020A	430812
680-124511-13	AOP SB S12	Total/NA	Solid	6020A	430812
680-124511-16	AOP CB S14	Total/NA	Solid	6020A	430812
LCS 680-430812/2-A	Lab Control Sample	Total/NA	Solid	6020A	430812
MB 680-430812/1-A	Method Blank	Total/NA	Solid	6020A	430812

General Chemistry

Analysis Batch: 430864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124511-1	AOP SB S01	Total/NA	Solid	Moisture	
680-124511-2	AOP SB S02	Total/NA	Solid	Moisture	
680-124511-3	AOP SB S03	Total/NA	Solid	Moisture	
680-124511-4	AOP CB S03	Total/NA	Solid	Moisture	
680-124511-5	AOP SB S04	Total/NA	Solid	Moisture	
680-124511-6	AOP SB S05	Total/NA	Solid	Moisture	
680-124511-7	AOP SB S06	Total/NA	Solid	Moisture	
680-124511-8	AOP SB S07	Total/NA	Solid	Moisture	
680-124511-9	AOP SB S08	Total/NA	Solid	Moisture	
680-124511-10	AOP SB S09	Total/NA	Solid	Moisture	
680-124511-10 MS	AOP SB S09	Total/NA	Solid	Moisture	
680-124511-10 MSD	AOP SB S09	Total/NA	Solid	Moisture	
680-124511-11	AOP SB S10	Total/NA	Solid	Moisture	
680-124511-12	AOP SB S11	Total/NA	Solid	Moisture	
680-124511-13	AOP SB S12	Total/NA	Solid	Moisture	
680-124511-14	AOP SB S13	Total/NA	Solid	Moisture	
680-124511-15	AOP SB S14	Total/NA	Solid	Moisture	
680-124511-16	AOP CB S14	Total/NA	Solid	Moisture	

Client Sample ID: AOP SB S01

Lab Sample ID: 680-124511-1

Date Collected: 10/15/15 10:05

Matrix: Solid

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S01

Lab Sample ID: 680-124511-1

Date Collected: 10/15/15 10:05

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.14 g	500 mL	431271	04/28/16 17:38	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.14 g	500 mL	432053	05/05/16 02:20	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.14 g	500 mL	432053	05/05/16 02:25	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S02

Lab Sample ID: 680-124511-2

Date Collected: 10/15/15 10:10

Matrix: Solid

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S02

Lab Sample ID: 680-124511-2

Date Collected: 10/15/15 10:10

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.17 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.17 g	500 mL	431271	04/28/16 16:45	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.17 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.17 g	500 mL	432423	05/07/16 15:38	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S03

Lab Sample ID: 680-124511-3

Date Collected: 10/15/15 10:15

Matrix: Solid

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S03

Lab Sample ID: 680-124511-3

Date Collected: 10/15/15 10:15

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.16 g	500 mL	431271	04/28/16 18:18	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.16 g	500 mL	432053	05/05/16 03:16	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.16 g	500 mL	432423	05/07/16 16:03	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP CB S03

Lab Sample ID: 680-124511-4

Date Collected: 10/15/15 10:15

Matrix: Solid

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP CB S03

Lab Sample ID: 680-124511-4

Date Collected: 10/15/15 10:15

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.14 g	500 mL	431271	04/28/16 16:58	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.14 g	500 mL	432423	05/07/16 15:47	BWR	TAL SAV
	Instrument ID: ICPMSC									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S04

Date Collected: 10/15/15 10:20
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124511-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S04

Date Collected: 10/15/15 10:20
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124511-5

Matrix: Solid
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.15 g	500 mL	431271	04/28/16 17:58	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.15 g	500 mL	432053	05/05/16 02:45	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S05

Date Collected: 10/15/15 10:25
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124511-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S05

Date Collected: 10/15/15 10:25
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124511-6

Matrix: Solid
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.16 g	500 mL	431271	04/28/16 18:38	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.16 g	500 mL	432053	05/05/16 03:21	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S06

Date Collected: 10/15/15 10:30
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124511-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S06

Lab Sample ID: 680-124511-7

Date Collected: 10/15/15 10:30
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.15 g	500 mL	431271	04/28/16 17:52	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.15 g	500 mL	432053	05/05/16 02:40	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S07

Lab Sample ID: 680-124511-8

Date Collected: 10/15/15 10:40
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S07

Lab Sample ID: 680-124511-8

Date Collected: 10/15/15 10:40
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.18 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.18 g	500 mL	431271	04/28/16 18:11	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.18 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.18 g	500 mL	432053	05/05/16 02:55	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	3050B			1.18 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.18 g	500 mL	432053	05/05/16 03:11	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S08

Lab Sample ID: 680-124511-9

Date Collected: 10/15/15 10:45
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S08

Lab Sample ID: 680-124511-9

Date Collected: 10/15/15 10:45
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.18 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.18 g	500 mL	431271	04/28/16 18:45	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.18 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.18 g	500 mL	432053	05/05/16 03:26	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S09

Lab Sample ID: 680-124511-10

Date Collected: 10/15/15 11:10
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S09

Lab Sample ID: 680-124511-10

Date Collected: 10/15/15 11:10
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.17 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.17 g	500 mL	431271	04/28/16 16:11	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.17 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.17 g	500 mL	432423	05/07/16 14:37	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	3050B			1.17 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.17 g	500 mL	432423	05/07/16 15:02	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S10

Lab Sample ID: 680-124511-11

Date Collected: 10/15/15 11:05
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S10

Lab Sample ID: 680-124511-11

Date Collected: 10/15/15 11:05
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.16 g	500 mL	431271	04/28/16 17:25	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.16 g	500 mL	432423	05/07/16 15:58	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S11

Lab Sample ID: 680-124511-12

Date Collected: 10/15/15 11:20
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S11

Lab Sample ID: 680-124511-12

Date Collected: 10/15/15 11:20
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 81.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.15 g	500 mL	431271	04/28/16 17:32	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.15 g	500 mL	432053	05/05/16 02:10	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	3050B			1.15 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.15 g	500 mL	432053	05/05/16 02:15	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S12

Lab Sample ID: 680-124511-13

Date Collected: 10/15/15 11:25
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S12

Lab Sample ID: 680-124511-13

Date Collected: 10/15/15 11:25

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 90.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.16 g	500 mL	431271	04/28/16 16:51	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.16 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.16 g	500 mL	432423	05/07/16 15:43	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S13

Lab Sample ID: 680-124511-14

Date Collected: 10/15/15 11:30

Matrix: Solid

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S13

Lab Sample ID: 680-124511-14

Date Collected: 10/15/15 11:30

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.14 g	500 mL	431271	04/28/16 18:05	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.14 g	500 mL	432053	05/05/16 02:50	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP SB S14

Lab Sample ID: 680-124511-15

Date Collected: 10/15/15 11:35

Matrix: Solid

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP SB S14

Lab Sample ID: 680-124511-15

Date Collected: 10/15/15 11:35

Matrix: Solid

Date Received: 04/26/16 10:00

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.19 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.19 g	500 mL	431271	04/28/16 17:45	BJB	TAL SAV
	Instrument ID: ICPMSB									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Client Sample ID: AOP SB S14

Lab Sample ID: 680-124511-15

Date Collected: 10/15/15 11:35
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.19 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		2	1.19 g	500 mL	432053	05/05/16 02:30	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Prep	3050B			1.19 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.19 g	500 mL	432053	05/05/16 02:35	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: AOP CB S14

Lab Sample ID: 680-124511-16

Date Collected: 10/15/15 11:35
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOP CB S14

Lab Sample ID: 680-124511-16

Date Collected: 10/15/15 11:35
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		1	1.14 g	500 mL	431271	04/28/16 17:18	BJB	TAL SAV
	Instrument ID: ICPMSB									
Total/NA	Prep	3050B			1.14 g	500 mL	430812	04/27/16 07:31	CDD	TAL SAV
Total/NA	Analysis	6020A		10	1.14 g	500 mL	432423	05/07/16 15:53	BWR	TAL SAV
	Instrument ID: ICPMSC									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		399.01	02-28-17
USDA	Federal		SAV 3-04	06-11-17

Method Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124511-1

Method	Method Description	Protocol	Laboratory
6020A	Metals (ICP/MS)	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 1 of 2

Project Name: Site Investigation | PO No. | Project No. 088881.7716.0002 Phase SI

Site Location: GTMO Cuba | **Sample Analysis Requested** (*Enter number of containers for each test*)

CTO No. JM B5 | RC Project Manager: Paul Stoddard | (3)→

Sampler/Site Phone#

Lab Name: TEST AMERICA | Turnaround Time(specify):

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	METALS, TAL	Extra Volume for MS/MSD	HOLD
	AOP SB S01	BS01	10/15/15	1005	SO	N	N	1	X		
	AOP SB S02	BS02	"	1010	SO	N	N	1	X		
	AOP SB S03	BS03		1015	SO	N	N	1	X		
	AOP SB S03	BS03		1015	SO	FB	N	1	X		
	AOP SB S04	BS04		1020	SO	N	N	1	X		
	AOP SB S05	BS05		1025	SO	N	N	1	X		
	AOP SB S06	BS06		1030	SO	N	N	1	X		
	AOP SB S07	BS07		1040	SO	N	N	1	X		
	AOP SB S08	BS08		1045	SO	N	N	1	X		
	AOP SB S09	BS09		1110	SO	N	N	3	X	✓	
	AOP SB S10	BS10		1105	SO	N	N	1	X		
	AOP SB S11	BS11		1120	SO	N	N	1	X		

680-124511 Chain of Custody

Field **Comments:**

Lab **Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment:

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1 Ben Brantley	10/16/15	0900	1 AC	4/25/16	0710
2 Morgan Gruber	4/25/2016	1500	2 Angela Collier	4/25/2016	1450
3			Emma Young	4-26-16	10:00

Samples Iced?(check) Yes ✓ No

Method of Shipment:

Airbill No:

Date Shipped:

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, If **NO preservative** added leave blank

Rev 5/12

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No: | Page 2 of 2

Project Name: Site Investigation | PO No. | Project No. 02288 17816 Phase SI

Site Location: GTMO Cuba | **Sample Analysis Requested** (*Enter number of containers for each test*)

CTO No. JMB5 RC Project Manager: Paul Stoddard | (3)→

Sampler/Site Phone#

Lab Name: Turnaround Time(specify):

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	METALS								Extra Volume for MS/MSD	HOLD
	AOPSBS12	BS12	10/15/15	1125	SO	N	N	1	X									
	AOPSBS13	BS13	"	1130	SO	N	N	1	X									
	AOPSBS14	BS14	"	1135	SO	N	N	1	X									
	AOPCBS14	BS14	"	1135	FB	N	N	1	X									

Field **Comments:**

Lab **Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment:

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	Ben Bradley				4/23/16	7:10
2		4/25/2016	1120		4/25/2016	1430
3					4-26-16	10:00

Samples Iced?(check) Yes____ No____

Method of Shipment:

Airbill No:

Date Shipped:

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDI**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, **If NO preservative** added leave blank

Rev 5/12

Login Sample Receipt Checklist

Client: Earth Toxics, Inc

Job Number: 680-124511-1

Login Number: 124511

List Source: TestAmerica Savannah

List Number: 1

Creator: Murray, Thomas J

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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	False	preps for 6020A & 7471A out of hold
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-124505-1
Client Project/Site: Site Investigation/JMB5
Revision: 1

For:
Earth Toxics, Inc
PO BOX 3382
Logan, Utah 84321

Attn: Mike Dryden

Authorized for release by:
5/13/2016 6:24:25 PM
Robert Bearden, Project Manager I
(912)354-7858
robert.bearden@testamericainc.com

Designee for

Michele Kersey, Project Manager I
(912)354-7858
michele.kersey@testamericainc.com

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	The reported value is from a dilution.
M	Manual integrated compound.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
U	Undetected at the Limit of Detection.
J	Estimated: The analyte was positively identified; the quantitation is an estimation
J	Estimated: The quantitation is an estimation due to discrepancies in meeting certain analyte-specific quality control criteria.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix sp ke 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)

Sample Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-124505-1	AOPS M201-1	Solid	04/21/16 09:23	04/26/16 10:00
680-124505-2	AOPS M201-2	Solid	04/21/16 09:23	04/26/16 10:00
680-124505-3	AOPS M201-3	Solid	04/21/16 09:51	04/26/16 10:00
680-124505-4	AOPC M201-3	Solid	04/21/16 09:51	04/26/16 10:00
680-124505-5	AOPS M201-4	Solid	04/21/16 09:46	04/26/16 10:00
680-124505-6	AOPS M201-5	Solid	04/21/16 10:16	04/26/16 10:00
680-124505-7	AOPS M301-1	Solid	04/21/16 10:20	04/26/16 10:00
680-124505-8	AOPS M301-2	Solid	04/21/16 10:40	04/26/16 10:00
680-124505-9	AOPS M301-3	Solid	04/21/16 10:50	04/26/16 10:00
680-124505-10	AOPS M301-4	Solid	04/21/16 11:07	04/26/16 10:00
680-124505-11	FB042116	Water	04/21/16 11:20	04/26/16 10:00
680-124505-12	EB042116	Water	04/21/16 11:25	04/26/16 10:00

Job ID: 680-124505-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Earth Toxics, Inc

Project: Site Investigation/JMB5

Report Number: 680-124505-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

REVISED REPORT
This report constitutes a revised report. The original report was re-issed to incorporate dry weight correction for soils and edits to the Case Narrative text.

RECEIPT
The samples were received on 4/26/2016 10:00 AM. The samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 4.4º C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH
Samples AOPS M201-1 (680-124505-1), AOPS M201-2 (680-124505-2), AOPS M201-3 (680-124505-3), AOPC M201-3 (680-124505-4), AOPS M201-4 (680-124505-5), AOPS M201-5 (680-124505-6), AOPS M301-1 (680-124505-7), AOPS M301-2 (680-124505-8), AOPS M301-3 (680-124505-9) and AOPS M301-4 (680-124505-10) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/27/2016 and analyzed on 05/02/2016.

In ufficient ample volume wa available to perform a matrix pike/matrix pike duplicate/ ample duplicate (MS/MSD/DUP) a ociated with prep batch 430861.

The closing CCV recovered below 50% for Indeno[1,2,3-cd]pyrene. It was determined via reanalysis that the sample matrix contributed to the CCV failure. As such, additional re-analyses were not performed, and the data were qualified and reported.

Several analytes exceeded the recovery criteria low for the MS and MSD of sample AOPS M301-1 (680-124505-7) in batch 680-431370.

Samples AOPS M201-1 (680-124505-1)[25X], AOPS M201-1 (680-124505-1)[5X], AOPS M201-2 (680-124505-2)[5X], AOPS M201-2 (680-124505-2)[50X], AOPS M201-3 (680-124505-3)[5X], AOPS M201-4 (680-124505-5)[5X], AOPS M201-5 (680-124505-6)[10X], AOPS M201-5 (680-124505-6)[50X], AOPS M301-1 (680-124505-7)[5X], AOPS M301-1 (680-124505-7)[50X], AOPS M301-2 (680-124505-8)[10X], AOPS M301-3 (680-124505-9)[10X], AOPS M301-3 (680-124505-9)[50X], AOPS M301-4 (680-124505-10)[10X] and AOPS M301-4 (680-124505-10)[100X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH
Samples FB042116 (680-124505-11) and EB042116 (680-124505-12) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW-846 Method 8270D. The samples were prepared on 04/27/2016 and analyzed on 04/29/2016.

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

Client Sample ID: AOPS M201-1

Lab Sample ID: 680-124505-1
Date Collected: 04/21/16 09:23
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 90.7

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	140	D	36	17	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
2-Methylnaphthalene	120	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Acenaphthene	900	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Acenaphthylene	66	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Anthracene	1000	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Benzo[g,h,i]perylene	2500	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Benzo[k]fluoranthene	3100	D M	36	11	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Dibenz(a,h)anthracene	1200	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Fluorene	430	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Indeno[1,2,3-cd]pyrene	1700	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5
Naphthalene	99	D	36	18	ug/Kg	☼	04/27/16 08:24	05/02/16 12:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*66*		*36 - 131*	*04/27/16 08:24*	*05/02/16 12:52*	*5*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	5800	D	180	89	ug/Kg	☼	04/27/16 08 24	05/02/16 13 17	25
Benzo[a]pyrene	5700	D	180	33	ug/Kg	☼	04/27/16 08:24	05/02/16 13:17	25
Benzo[b]fluoranthene	10000	D M	180	89	ug/Kg	☼	04/27/16 08:24	05/02/16 13:17	25
Chrysene	6400	D	180	89	ug/Kg	☼	04/27/16 08:24	05/02/16 13:17	25
Fluoranthene	13000	D	180	89	ug/Kg	☼	04/27/16 08:24	05/02/16 13:17	25
Phenanthrene	9200	D	180	65	ug/Kg	☼	04/27/16 08:24	05/02/16 13:17	25
Pyrene	11000	D	180	89	ug/Kg	☼	04/27/16 08:24	05/02/16 13:17	25

Client Sample ID: AOPS M201-2

Lab Sample ID: 680-124505-2
Date Collected: 04/21/16 09:23
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 89.0

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	200	D	37	17	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
2-Methylnaphthalene	190	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Acenaphthene	1300	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Acenaphthylene	77	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Anthracene	1600	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Benzo[g,h,i]perylene	2900	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Benzo[k]fluoranthene	2500	D M	37	11	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Dibenz(a,h)anthracene	1300	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Fluorene	710	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Indeno[1,2,3-cd]pyrene	1900	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5
Naphthalene	200	D	37	18	ug/Kg	☼	04/27/16 08:24	05/02/16 13:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*66*		*36 - 131*	*04/27/16 08:24*	*05/02/16 13:43*	*5*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	10000	D	370	180	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50
Benzo[a]pyrene	9000	D	370	67	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50

Client Sample ID: AOPS M201-2

Lab Sample ID: 680-124505-2
Date Collected: 04/21/16 09:23
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 89.0

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	15000	D M	370	180	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50
Chrysene	11000	D	370	180	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50
Fluoranthene	20000	D	370	180	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50
Phenanthrene	16000	D	370	130	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50
Pyrene	20000	D	370	180	ug/Kg	☼	04/27/16 08:24	05/02/16 14:08	50

Client Sample ID: AOPS M201-3

Lab Sample ID: 680-124505-3
Date Collected: 04/21/16 09:51
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 87.4

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	19	U	38	18	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
2-Methylnaphthalene	38	U	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Acenaphthene	90	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Acenaphthylene	38	U	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Anthracene	140	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Benzo[a]anthracene	420	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Benzo[a]pyrene	360	D	38	6.8	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Benzo[b]fluoranthene	590	D M	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Benzo[g,h,i]perylene	170	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Benzo[k]fluoranthene	290	D M	38	11	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Chrysene	420	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Dibenz(a,h)anthracene	62	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Fluoranthene	870	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Fluorene	61	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Indeno[1,2,3-cd]pyrene	120	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Naphthalene	38	U	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Phenanthrene	750	D	38	14	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5
Pyrene	760	D	38	19	ug/Kg	☼	04/27/16 08:24	05/02/16 14:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*72*		*36 - 131*	*04/27/16 08:24*	*05/02/16 14:34*	*5*

Client Sample ID: AOPC M201-3

Lab Sample ID: 680-124505-4
Date Collected: 04/21/16 09:51
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 88.8

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	3.7	U	7.5	3.5	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
2-Methylnaphthalene	7.5	U	7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Acenaphthene	14		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Acenaphthylene	3.9	J	7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Anthracene	29		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Benzo[a]anthracene	120		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Benzo[a]pyrene	120		7.5	1.3	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Benzo[b]fluoranthene	220	M	7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Benzo[g,h,i]perylene	63		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Benzo[k]fluoranthene	73	M	7.5	2.2	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1

Client Sample ID: AOPC M201-3

Lab Sample ID: 680-124505-4
Date Collected: 04/21/16 09:51
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 88.8

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	120		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Dibenz(a,h)anthracene	20		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Fluoranthene	240		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Fluorene	9.1		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Indeno[1,2,3-cd]pyrene	37		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Naphthalene	4.8	J	7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Phenanthrene	150		7.5	2.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1
Pyrene	200		7.5	3.7	ug/Kg	☼	04/27/16 08:24	05/02/16 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*69*		*36 - 131*	*04/27/16 08:24*	*05/02/16 15:00*	*1*

Client Sample ID: AOPS M201-4

Lab Sample ID: 680-124505-5
Date Collected: 04/21/16 09:46
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.4

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	23	J D	39	18	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
2-Methylnaphthalene	25	J D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Acenaphthene	170	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Acenaphthylene	39	U	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Anthracene	280	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Benzo[a]anthracene	1200	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Benzo[a]pyrene	1200	D	39	7.0	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Benzo[b]fluoranthene	2000	D M	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Benzo[g,h,i]perylene	570	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Benzo[k]fluoranthene	680	D M	39	12	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Chrysene	1300	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Dibenz(a,h)anthracene	180	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Fluoranthene	2600	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Fluorene	110	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Indeno[1,2,3-cd]pyrene	330	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Naphthalene	29	J D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Phenanthrene	1800	D	39	14	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5
Pyrene	2500	D	39	19	ug/Kg	☼	04/27/16 08:24	05/02/16 15:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*96*		*36 - 131*	*04/27/16 08:24*	*05/02/16 15:26*	*5*

Client Sample ID: AOPS M201-5

Lab Sample ID: 680-124505-6
Date Collected: 04/21/16 10:16
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 93.2

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	140	D	71	33	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
2-Methylnaphthalene	150	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Acenaphthene	940	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Acenaphthylene	79	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10

Client Sample ID: AOPS M201-5

Date Collected: 04/21/16 10:16
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-6

Matrix: Solid
Percent Solids: 93.2

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	1000	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Benzo[a]anthracene	5700	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Benzo[a]pyrene	5100	D	71	13	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Benzo[g,h,i]perylene	2300	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Benzo[k]fluoranthene	3200	D M	71	21	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Chrysene	6400	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Dibenz(a,h)anthracene	770	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Fluorene	420	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Indeno[1,2,3-cd]pyrene	1400	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10
Naphthalene	140	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 15:51	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*D*	*36 - 131*	*04/27/16 08:24*	*05/02/16 15:51*	*10*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	11000	D M	360	180	ug/Kg	☼	04/27/16 08:24	05/02/16 16:17	50
Fluoranthene	15000	D	360	180	ug/Kg	☼	04/27/16 08:24	05/02/16 16:17	50
Phenanthrene	12000	D	360	130	ug/Kg	☼	04/27/16 08:24	05/02/16 16:17	50
Pyrene	16000	D	360	180	ug/Kg	☼	04/27/16 08:24	05/02/16 16:17	50

Client Sample ID: AOPS M301-1

Date Collected: 04/21/16 10:20
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-7

Matrix: Solid
Percent Solids: 96.5

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	350	D	35	16	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
2-Methylnaphthalene	420	D	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Acenaphthene	1900	D J	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Acenaphthylene	100	D	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Anthracene	2100	D J	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Dibenz(a,h)anthracene	1600	D J	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Fluorene	1000	D J	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Indeno[1,2,3-cd]pyrene	2200	D	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5
Naphthalene	270	D	35	17	ug/Kg	☼	04/27/16 08:24	05/02/16 16:43	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*90*		*36 - 131*	*04/27/16 08:24*	*05/02/16 16:43*	*5*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	11000	D	350	170	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Benzo[a]pyrene	10000	D	350	62	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Benzo[b]fluoranthene	17000	D M	350	170	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Benzo[g,h,i]perylene	4600	D	350	170	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Benzo[k]fluoranthene	7200	D M	350	100	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Chrysene	13000	D	350	170	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Fluoranthene	24000	D	350	170	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Phenanthrene	20000	D	350	120	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50
Pyrene	26000	D	350	170	ug/Kg	☼	04/27/16 08:24	05/02/16 17:09	50

Client Sample ID: AOPS M301-2

Date Collected: 04/21/16 10:40
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-8

Matrix: Solid
Percent Solids: 95.1

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	85	D	70	33	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
2-Methylnaphthalene	88	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Acenaphthene	460	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Acenaphthylene	37	J D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Anthracene	450	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Benzo[a]anthracene	2500	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Benzo[a]pyrene	2300	D	70	13	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Benzo[b]fluoranthene	4000	D M	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Benzo[g,h,i]perylene	1100	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Benzo[k]fluoranthene	1800	D M	70	21	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Chrysene	2900	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Dibenz(a,h)anthracene	380	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Fluoranthene	5100	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Fluorene	200	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Indeno[1,2,3-cd]pyrene	660	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Naphthalene	49	J D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Phenanthrene	3900	D	70	25	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10
Pyrene	5300	D	70	35	ug/Kg	☼	04/27/16 08:24	05/02/16 17:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*D*	*36 - 131*	*04/27/16 08:24*	*05/02/16 17:34*	*10*

Client Sample ID: AOPS M301-3

Date Collected: 04/21/16 10:50
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-9

Matrix: Solid
Percent Solids: 96.7

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	170	D	68	32	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
2-Methylnaphthalene	210	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Acenaphthene	750	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Acenaphthylene	46	J D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Anthracene	680	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Benzo[a]anthracene	3700	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Benzo[a]pyrene	3200	D	68	12	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Benzo[b]fluoranthene	5300	D M	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Benzo[g,h,i]perylene	1400	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Benzo[k]fluoranthene	2500	D M	68	20	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Chrysene	4200	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Dibenz(a,h)anthracene	550	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Fluorene	280	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Indeno[1,2,3-cd]pyrene	920	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10
Naphthalene	160	D	68	34	ug/Kg	☼	04/27/16 08:24	05/02/16 18:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*D*	*36 - 131*	*04/27/16 08:24*	*05/02/16 18:25*	*10*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	11000	D	340	170	ug/Kg	☼	04/27/16 08:24	05/02/16 18:51	50

Client Sample ID: AOPS M301-3

Lab Sample ID: 680-124505-9
Date Collected: 04/21/16 10:50
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 96.7

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	9000	D	340	120	ug/Kg	☼	04/27/16 08:24	05/02/16 18:51	50
Pyrene	11000	D	340	170	ug/Kg	☼	04/27/16 08:24	05/02/16 18:51	50

Client Sample ID: AOPS M301-4

Lab Sample ID: 680-124505-10
Date Collected: 04/21/16 11:07
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 93.4

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	430	D	71	33	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
2-Methylnaphthalene	470	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Acenaphthene	3200	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Acenaphthylene	170	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Anthracene	4800	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Benzo[g,h,i]perylene	6800	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Dibenz(a,h)anthracene	3100	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Fluorene	1800	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Indeno[1,2,3-cd]pyrene	4100	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10
Naphthalene	590	D	71	35	ug/Kg	☼	04/27/16 08:24	05/02/16 19:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*0*	*D*	*36 - 131*	*04/27/16 08:24*	*05/02/16 19:16*	*10*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH - DL

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	19000	D	710	350	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Benzo[a]pyrene	16000	D	710	130	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Benzo[b]fluoranthene	26000	D M	710	350	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Benzo[k]fluoranthene	14000	D M	710	210	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Chrysene	20000	D	710	350	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Fluoranthene	40000	D	710	350	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Phenanthrene	34000	D	710	260	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100
Pyrene	41000	D	710	350	ug/Kg	☼	04/27/16 08:24	05/02/16 19:42	100

Client Sample ID: FB042116

Lab Sample ID: 680-124505-11
Date Collected: 04/21/16 11:20
Matrix: Water
Date Received: 04/26/16 10:00

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.40	U	1.0	0.40	ug/L		04/27/16 16:13	04/29/16 23:05	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Acenaphthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1

Client Sample ID: FB042116

Lab Sample ID: 680-124505-11

Date Collected: 04/21/16 11:20

Matrix: Water

Date Received: 04/26/16 10:00

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	0.10	U	0.20	0.045	ug/L		04/27/16 16:13	04/29/16 23:05	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Fluorene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Naphthalene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1
Pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*64*		*35 - 130*	*04/27/16 16:13*	*04/29/16 23:05*	*1*

Client Sample ID: EB042116

Lab Sample ID: 680-124505-12

Date Collected: 04/21/16 11:25

Matrix: Water

Date Received: 04/26/16 10:00

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.40	U	1.0	0.40	ug/L		04/27/16 16:13	04/29/16 23:27	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Acenaphthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Chrysene	0.10	U	0.20	0.045	ug/L		04/27/16 16:13	04/29/16 23:27	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Fluorene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Naphthalene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1
Pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 23:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*58*		*35 - 130*	*04/27/16 16:13*	*04/29/16 23:27*	*1*

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 680-430813/11-A
Matrix: Solid
Analysis Batch: 431370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430813

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	3.3	U	6.6	3.1	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
2-Methylnaphthalene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Acenaphthene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Acenaphthylene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Anthracene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Benzo[a]anthracene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Benzo[a]pyrene	3.3	U	6.6	1.2	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Benzo[b]fluoranthene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Benzo[g,h,i]perylene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Benzo[k]fluoranthene	3.3	U	6.6	2.0	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Chrysene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Dibenz(a,h)anthracene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Fluoranthene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Fluorene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Indeno[1,2,3-cd]pyrene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Naphthalene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Phenanthrene	3.3	U	6.6	2.4	ug/Kg		04/27/16 08:24	05/02/16 11:12	1
Pyrene	6.6	U	6.6	3.3	ug/Kg		04/27/16 08:24	05/02/16 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl (Surr)	*72*		*36 - 131*	*04/27/16 08:24*	*05/02/16 11:12*	*1*

Lab Sample ID: LCS 680-430813/12-A
Matrix: Solid
Analysis Batch: 431370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430813

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	333	230		ug/Kg		69	40 - 119
2-Methylnaphthalene	333	228		ug/Kg		68	38 - 122
Acenaphthene	333	234		ug/Kg		70	40 - 123
Acenaphthylene	333	233		ug/Kg		70	32 - 132
Anthracene	333	238		ug/Kg		72	47 - 123
Benzo[a]anthracene	333	245		ug/Kg		74	49 - 126
Benzo[a]pyrene	333	263		ug/Kg		79	45 - 129
Benzo[b]fluoranthene	333	257		ug/Kg		77	45 - 132
Benzo[g,h,i]perylene	333	276		ug/Kg		83	43 - 134
Benzo[k]fluoranthene	333	233		ug/Kg		70	47 - 132
Chrysene	333	231		ug/Kg		69	50 - 124
Dibenz(a,h)anthracene	333	272		ug/Kg		82	45 - 134
Fluoranthene	333	254		ug/Kg		76	50 - 127
Fluorene	333	236		ug/Kg		71	43 - 125
Indeno[1,2,3-cd]pyrene	333	264		ug/Kg		79	45 - 133
Naphthalene	333	223		ug/Kg		67	35 - 123
Phenanthrene	333	261		ug/Kg		78	50 - 121
Pyrene	333	230		ug/Kg		69	47 - 127

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 680-430813/12-A
Matrix: Solid
Analysis Batch: 431370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430813

Surrogate	LCS %Recovery	LCS Qualifier	Limits
o-Terphenyl (Surr)	74		36 - 131

Lab Sample ID: 680-124505-7 MS
Matrix: Solid
Analysis Batch: 431370

Client Sample ID: AOPS M301-1
Prep Type: Total/NA
Prep Batch: 430813

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	350	D	346	530	D	ug/Kg	☼	52	40 - 119
2-Methylnaphthalene	420	D	346	592	D	ug/Kg	☼	49	38 - 122
Acenaphthene	1900	D J	346	1470	D 4	ug/Kg	☼	-116	40 - 123
Acenaphthylene	100	D	346	345	D	ug/Kg	☼	70	32 - 132
Anthracene	2100	D J	346	1670	D 4	ug/Kg	☼	-134	47 - 123
Benzo[a]anthracene	8900	J D	346	6900	J D 4	ug/Kg	☼	-564	49 - 126
Benzo[a]pyrene	7600	J D	346	5850	J D 4	ug/Kg	☼	-513	45 - 129
Benzo[b]fluoranthene	14000	J D M	346	10800	J D M 4	ug/Kg	☼	-953	45 - 132
Benzo[g,h,i]perylene	3500	J D	346	2780	D 4	ug/Kg	☼	-207	43 - 134
Benzo[k]fluoranthene	3600	J D M	346	2380	D M 4	ug/Kg	☼	-357	47 - 132
Chrysene	8500	J D	346	5550	J D 4	ug/Kg	☼	-844	50 - 124
Dibenz(a,h)anthracene	1600	D J	346	1360	D 4	ug/Kg	☼	-71	45 - 134
Fluoranthene	17000	J D	346	13900	J D 4	ug/Kg	☼	-972	50 - 127
Fluorene	1000	D J	346	847	D J	ug/Kg	☼	-47	43 - 125
Indeno[1,2,3-cd]pyrene	2200	D	346	2410	D 4	ug/Kg	☼	70	45 - 133
Naphthalene	270	D	346	474	D	ug/Kg	☼	60	35 - 123
Phenanthrene	15000	J D	346	11000	J D 4	ug/Kg	☼	-1026	50 - 121
Pyrene	17000	J D	346	9400	J D 4	ug/Kg	☼	-2064	47 - 127

Surrogate	MS %Recovery	MS Qualifier	Limits
o-Terphenyl (Surr)	72		36 - 131

Lab Sample ID: 680-124505-7 MSD
Matrix: Solid
Analysis Batch: 431370

Client Sample ID: AOPS M301-1
Prep Type: Total/NA
Prep Batch: 430813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	350	D	341	553	D	ug/Kg	☼	59	40 - 119	4	20
2-Methylnaphthalene	420	D	341	576	D	ug/Kg	☼	45	38 - 122	3	20
Acenaphthene	1900	D J	341	1700	D 4	ug/Kg	☼	-52	40 - 123	14	20
Acenaphthylene	100	D	341	322	D	ug/Kg	☼	64	32 - 132	7	20
Anthracene	2100	D J	341	1970	D 4	ug/Kg	☼	-49	47 - 123	16	20
Benzo[a]anthracene	8900	J D	341	8350	J D 4	ug/Kg	☼	-145	49 - 126	19	20
Benzo[a]pyrene	7600	J D	341	6820	J D 4	ug/Kg	☼	-235	45 - 129	15	20
Benzo[b]fluoranthene	14000	J D M	341	12200	J D M 4	ug/Kg	☼	-564	45 - 132	12	20
Benzo[g,h,i]perylene	3500	J D	341	3130	D 4	ug/Kg	☼	-109	43 - 134	12	20
Benzo[k]fluoranthene	3600	J D M	341	2120	D M 4	ug/Kg	☼	-439	47 - 132	12	20
Chrysene	8500	J D	341	6280	J D 4	ug/Kg	☼	-643	50 - 124	12	20
Dibenz(a,h)anthracene	1600	D J	341	1530	D 4	ug/Kg	☼	-22	45 - 134	12	20
Fluoranthene	17000	J D	341	16000	J D 4	ug/Kg	☼	-359	50 - 127	14	20
Fluorene	1000	D J	341	945	D J	ug/Kg	☼	-19	43 - 125	11	20

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: 680-124505-7 MSD
Matrix: Solid
Analysis Batch: 431370

Client Sample ID: AOPS M301-1
Prep Type: Total/NA
Prep Batch: 430813

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Indeno[1,2,3-cd]pyrene	2200	D	341	2580	D 4	ug/Kg	☼	121	45 - 133	7	20
Naphthalene	270	D	341	449	D	ug/Kg	☼	54	35 - 123	5	20
Phenanthrene	15000	J D	341	12100	J D 4	ug/Kg	☼	-733	50 - 121	9	20
Pyrene	17000	J D	341	10900	J D 4	ug/Kg	☼	-1647	47 - 127	15	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl (Surr)	*67*		*36 - 131*

Lab Sample ID: MB 680-430861/3-A
Matrix: Water
Analysis Batch: 431237

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 430861

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	0.40	U	1.0	0.40	ug/L		04/27/16 16:13	04/29/16 21:58	1
2-Methylnaphthalene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Acenaphthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Acenaphthylene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Benzo[a]anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Benzo[a]pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Benzo[b]fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Benzo[g,h,i]perylene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Benzo[k]fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Chrysene	0.10	U	0.20	0.045	ug/L		04/27/16 16:13	04/29/16 21:58	1
Dibenz(a,h)anthracene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Fluoranthene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Fluorene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Naphthalene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Phenanthrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1
Pyrene	0.20	U	0.20	0.10	ug/L		04/27/16 16:13	04/29/16 21:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*66*		*35 - 130*	*04/27/16 16:13*	*04/29/16 21:58*	*1*

Lab Sample ID: LCS 680-430861/4-A
Matrix: Water
Analysis Batch: 431237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	10.0	6.23		ug/L		62	41 - 119
2-Methylnaphthalene	10.0	5.70		ug/L		57	40 - 121
Acenaphthene	10.0	6.55		ug/L		65	47 - 122
Acenaphthylene	10.0	6.56		ug/L		66	41 - 130
Anthracene	10.0	6.61		ug/L		66	57 - 123
Benzo[a]anthracene	10.0	6.66		ug/L		67	58 - 125
Benzo[a]pyrene	10.0	6.98		ug/L		70	54 - 128
Benzo[b]fluoranthene	10.0	6.72		ug/L		67	53 - 131

Method: 8270D DOD - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 680-430861/4-A
Matrix: Water
Analysis Batch: 431237

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 430861

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene	10.0	7.68		ug/L		77	50 - 134
Benzo[k]fluoranthene	10.0	6.75		ug/L		67	57 - 129
Chrysene	10.0	6.49		ug/L		65	59 - 123
Dibenz(a,h)anthracene	10.0	7.22		ug/L		72	51 - 134
Fluoranthene	10.0	6.69		ug/L		67	57 - 128
Fluorene	10.0	6.70		ug/L		67	52 - 124
Indeno[1,2,3-cd]pyrene	10.0	7.03		ug/L		70	52 - 134
Naphthalene	10.0	5.95		ug/L		59	40 - 121
Phenanthrene	10.0	6.79		ug/L		68	59 - 120
Pyrene	10.0	6.86		ug/L		69	57 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*61*		*35 - 130*

Lab Sample ID: LCSD 680-430861/5-A
Matrix: Water
Analysis Batch: 431237

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 430861

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	10.0	5.73		ug/L		57	41 - 119	8	20
2-Methylnaphthalene	10.0	5.59		ug/L		56	40 - 121	2	20
Acenaphthene	10.0	6.08		ug/L		61	47 - 122	7	20
Acenaphthylene	10.0	6.07		ug/L		61	41 - 130	8	20
Anthracene	10.0	6.74		ug/L		67	57 - 123	2	20
Benzo[a]anthracene	10.0	6.97		ug/L		70	58 - 125	5	20
Benzo[a]pyrene	10.0	6.59		ug/L		66	54 - 128	6	20
Benzo[b]fluoranthene	10.0	6.58		ug/L		66	53 - 131	2	20
Benzo[g,h,i]perylene	10.0	7.42		ug/L		74	50 - 134	3	20
Benzo[k]fluoranthene	10.0	6.53		ug/L		65	57 - 129	3	20
Chrysene	10.0	6.70		ug/L		67	59 - 123	3	20
Dibenz(a,h)anthracene	10.0	7.18		ug/L		72	51 - 134	1	20
Fluoranthene	10.0	7.07		ug/L		71	57 - 128	5	20
Fluorene	10.0	6.43		ug/L		64	52 - 124	4	20
Indeno[1,2,3-cd]pyrene	10.0	7.14		ug/L		71	52 - 134	2	20
Naphthalene	10.0	5.76		ug/L		58	40 - 121	3	20
Phenanthrene	10.0	6.91		ug/L		69	59 - 120	2	20
Pyrene	10.0	7.49		ug/L		75	57 - 126	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
o-Terphenyl	*62*		*35 - 130*

GC/MS Semi VOA

Prep Batch: 430813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124505-1	AOPS M201-1	Total/NA	Solid	3546	
680-124505-1 - DL	AOPS M201-1	Total/NA	Solid	3546	
680-124505-2	AOPS M201-2	Total/NA	Solid	3546	
680-124505-2 - DL	AOPS M201-2	Total/NA	Solid	3546	
680-124505-3	AOPS M201-3	Total/NA	Solid	3546	
680-124505-4	AOPC M201-3	Total/NA	Solid	3546	
680-124505-5	AOPS M201-4	Total/NA	Solid	3546	
680-124505-6 - DL	AOPS M201-5	Total/NA	Solid	3546	
680-124505-6	AOPS M201-5	Total/NA	Solid	3546	
680-124505-7	AOPS M301-1	Total/NA	Solid	3546	
680-124505-7 - DL	AOPS M301-1	Total/NA	Solid	3546	
680-124505-7 MS	AOPS M301-1	Total/NA	Solid	3546	
680-124505-7 MSD	AOPS M301-1	Total/NA	Solid	3546	
680-124505-8	AOPS M301-2	Total/NA	Solid	3546	
680-124505-9 - DL	AOPS M301-3	Total/NA	Solid	3546	
680-124505-9	AOPS M301-3	Total/NA	Solid	3546	
680-124505-10	AOPS M301-4	Total/NA	Solid	3546	
680-124505-10 - DL	AOPS M301-4	Total/NA	Solid	3546	
LCS 680-430813/12-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-430813/11-A	Method Blank	Total/NA	Solid	3546	

Prep Batch: 430861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124505-11	FB042116	Total/NA	Water	3520C	
680-124505-12	EB042116	Total/NA	Water	3520C	
LCS 680-430861/4-A	Lab Control Sample	Total/NA	Water	3520C	
LCSD 680-430861/5-A	Lab Control Sample Dup	Total/NA	Water	3520C	
MB 680-430861/3-A	Method Blank	Total/NA	Water	3520C	

Analysis Batch: 431237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124505-11	FB042116	Total/NA	Water	8270D DOD	430861
680-124505-12	EB042116	Total/NA	Water	8270D DOD	430861
LCS 680-430861/4-A	Lab Control Sample	Total/NA	Water	8270D DOD	430861
LCSD 680-430861/5-A	Lab Control Sample Dup	Total/NA	Water	8270D DOD	430861
MB 680-430861/3-A	Method Blank	Total/NA	Water	8270D DOD	430861

Analysis Batch: 431370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124505-1	AOPS M201-1	Total/NA	Solid	8270D DOD	430813
680-124505-1 - DL	AOPS M201-1	Total/NA	Solid	8270D DOD	430813
680-124505-2	AOPS M201-2	Total/NA	Solid	8270D DOD	430813
680-124505-2 - DL	AOPS M201-2	Total/NA	Solid	8270D DOD	430813
680-124505-3	AOPS M201-3	Total/NA	Solid	8270D DOD	430813
680-124505-4	AOPC M201-3	Total/NA	Solid	8270D DOD	430813
680-124505-5	AOPS M201-4	Total/NA	Solid	8270D DOD	430813
680-124505-6	AOPS M201-5	Total/NA	Solid	8270D DOD	430813
680-124505-6 - DL	AOPS M201-5	Total/NA	Solid	8270D DOD	430813
680-124505-7	AOPS M301-1	Total/NA	Solid	8270D DOD	430813
680-124505-7 - DL	AOPS M301-1	Total/NA	Solid	8270D DOD	430813
680-124505-7 MS	AOPS M301-1	Total/NA	Solid	8270D DOD	430813

GC/MS Semi VOA (Continued)

Analysis Batch: 431370 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124505-7 MSD	AOPS M301-1	Total/NA	Solid	8270D DOD	430813
680-124505-8	AOPS M301-2	Total/NA	Solid	8270D DOD	430813
680-124505-9	AOPS M301-3	Total/NA	Solid	8270D DOD	430813
680-124505-9 - DL	AOPS M301-3	Total/NA	Solid	8270D DOD	430813
680-124505-10	AOPS M301-4	Total/NA	Solid	8270D DOD	430813
680-124505-10 - DL	AOPS M301-4	Total/NA	Solid	8270D DOD	430813
LCS 680-430813/12-A	Lab Control Sample	Total/NA	Solid	8270D DOD	430813
MB 680-430813/11-A	Method Blank	Total/NA	Solid	8270D DOD	430813

General Chemistry

Analysis Batch: 430864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124505-1	AOPS M201-1	Total/NA	Solid	Moisture	
680-124505-2	AOPS M201-2	Total/NA	Solid	Moisture	
680-124505-3	AOPS M201-3	Total/NA	Solid	Moisture	
680-124505-4	AOPC M201-3	Total/NA	Solid	Moisture	
680-124505-5	AOPS M201-4	Total/NA	Solid	Moisture	
680-124505-6	AOPS M201-5	Total/NA	Solid	Moisture	
680-124505-7	AOPS M301-1	Total/NA	Solid	Moisture	
680-124505-7 MS	AOPS M301-1	Total/NA	Solid	Moisture	
680-124505-7 MSD	AOPS M301-1	Total/NA	Solid	Moisture	
680-124505-8	AOPS M301-2	Total/NA	Solid	Moisture	
680-124505-9	AOPS M301-3	Total/NA	Solid	Moisture	
680-124505-10	AOPS M301-4	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Client Sample ID: AOPS M201-1
Date Collected: 04/21/16 09:23
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M201-1
Date Collected: 04/21/16 09:23
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-1
Matrix: Solid
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.49 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		5	30.49 g	1 mL	431370	05/02/16 12:52	NED	TAL SAV
	Instrument ID: CMSF									
Total/NA	Prep	3546	DL		30.49 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD	DL	25	30.49 g	1 mL	431370	05/02/16 13:17	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M201-2
Date Collected: 04/21/16 09:23
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M201-2
Date Collected: 04/21/16 09:23
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-2
Matrix: Solid
Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.23 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		5	30.23 g	1 mL	431370	05/02/16 13:43	NED	TAL SAV
	Instrument ID: CMSF									
Total/NA	Prep	3546	DL		30.23 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD	DL	50	30.23 g	1 mL	431370	05/02/16 14:08	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M201-3
Date Collected: 04/21/16 09:51
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Client Sample ID: AOPS M201-3

Lab Sample ID: 680-124505-3
Date Collected: 04/21/16 09:51
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.23 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		5	30.23 g	1 mL	431370	05/02/16 14:34	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPC M201-3

Lab Sample ID: 680-124505-4
Date Collected: 04/21/16 09:51
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPC M201-3

Lab Sample ID: 680-124505-4
Date Collected: 04/21/16 09:51
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.16 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		1	30.16 g	1 mL	431370	05/02/16 15:00	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M201-4

Lab Sample ID: 680-124505-5
Date Collected: 04/21/16 09:46
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M201-4

Lab Sample ID: 680-124505-5
Date Collected: 04/21/16 09:46
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.10 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		5	30.10 g	1 mL	431370	05/02/16 15:26	NED	TAL SAV
	Instrument ID: CMSF									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Client Sample ID: AOPS M201-5
Date Collected: 04/21/16 10:16
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M201-5
Date Collected: 04/21/16 10:16
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-6
Matrix: Solid
Percent Solids: 93.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.29 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		10	30.29 g	1 mL	431370	05/02/16 15:51	NED	TAL SAV
	Instrument ID: CMSF									
Total/NA	Prep	3546	DL		30.29 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD	DL	50	30.29 g	1 mL	431370	05/02/16 16:17	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M301-1
Date Collected: 04/21/16 10:20
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M301-1
Date Collected: 04/21/16 10:20
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-7
Matrix: Solid
Percent Solids: 96.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.05 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		5	30.05 g	1 mL	431370	05/02/16 16:43	NED	TAL SAV
	Instrument ID: CMSF									
Total/NA	Prep	3546	DL		30.05 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD	DL	50	30.05 g	1 mL	431370	05/02/16 17:09	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M301-2
Date Collected: 04/21/16 10:40
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Client Sample ID: AOPS M301-2

Lab Sample ID: 680-124505-8
Date Collected: 04/21/16 10:40
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 95.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.07 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		10	30.07 g	1 mL	431370	05/02/16 17:34	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M301-3

Lab Sample ID: 680-124505-9
Date Collected: 04/21/16 10:50
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M301-3

Lab Sample ID: 680-124505-9
Date Collected: 04/21/16 10:50
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 96.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.39 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		10	30.39 g	1 mL	431370	05/02/16 18:25	NED	TAL SAV
	Instrument ID: CMSF									
Total/NA	Prep	3546	DL		30.39 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD	DL	50	30.39 g	1 mL	431370	05/02/16 18:51	NED	TAL SAV
	Instrument ID: CMSF									

Client Sample ID: AOPS M301-4

Lab Sample ID: 680-124505-10
Date Collected: 04/21/16 11:07
Matrix: Solid
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			430864	04/27/16 10:55	RAB	TAL SAV
	Instrument ID: NOEQUIP									

Client Sample ID: AOPS M301-4

Lab Sample ID: 680-124505-10
Date Collected: 04/21/16 11:07
Matrix: Solid
Date Received: 04/26/16 10:00
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.19 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD		10	30.19 g	1 mL	431370	05/02/16 19:16	NED	TAL SAV
	Instrument ID: CMSF									
Total/NA	Prep	3546	DL		30.19 g	1 mL	430813	04/27/16 08:24	CEW	TAL SAV
Total/NA	Analysis	8270D DOD	DL	100	30.19 g	1 mL	431370	05/02/16 19:42	NED	TAL SAV
	Instrument ID: CMSF									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Client Sample ID: FB042116

Date Collected: 04/21/16 11:20
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.7 mL	0.5 mL	430861	04/27/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8270D DOD		1	501.7 mL	0.5 mL	431237	04/29/16 23:05	NED	TAL SAV
	Instrument ID: CMSAE									

Client Sample ID: EB042116

Date Collected: 04/21/16 11:25
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124505-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			501.0 mL	0.5 mL	430861	04/27/16 16:13	RBS	TAL SAV
Total/NA	Analysis	8270D DOD		1	501.0 mL	0.5 mL	431237	04/29/16 23:27	NED	TAL SAV
	Instrument ID: CMSAE									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		399.01	02-28-17
USDA	Federal		SAV 3-04	06-11-17

Method Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124505-1

Method	Method Description	Protocol	Laboratory
8270D DOD	Semivolatile Organic Compounds (GC/MS) Low level PAH	SW846	TAL SAV
Moisture	Percent Moisture	EPA	TAL SAV

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 1 of 1

Project Name: Site Investigation | PO No. 20906 | Project No: 088881781G Phase: SI Task: SI

Site Location: GTMO, Cuba | **Sample Analysis Requested** (*Enter number of containers for each test*)

CTO No. JMB5 | RC Task Order Manager: Paul Stoddard

Sampler/Site Phone# Robbie Thomas / (615) 255-9300

Lab Name: Test America | Turnaround Time(specify): 14 days

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	(3)→ Total No. of Containers	PAHs	Extra Volume for MS/MSD	HOLD
	AOPSM201-1	M2-1	4/21/16	0923	SO	N	N	1	X		
	AOPSM201-2	M2-2		0923	SO	N	N	1	X		
	AOPSM201-3	M2-3		0951	SO	N	N	1	X		
	AOPCM201-3	M2-3		0951	SO	FD	N	1	X		
	AOPSM201-4	M2-4		0946	SO	N	N	1	X		
	AOPSM201-5	M2-5		1016	SO	N	N	1	X		
	AOPSM301-1	M3-1		1020	SO	N	N	3	X	X	
	AOPSM301-2	M3-2		1040	SO	N	N	1	X		
	AOPSM301-3	M3-3		1050	SO	N	N	1	X		
	AOPSM301-4	M3-4		1107	SO	N	N	1	X		
	FB042116	—		1120	SQ	FB	N	1	X		
	EB042116	—		1125	SQ	EB	N	1	X		

***Field* Comments:**

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1 Robbie Thomas	4/23/16	0710	1	4/25/16	0710
2 Mayra Coskelman	4-25-2016	1440	2	4-25-2016	1430
3			3	4-26-16	10:00

Samples Iced?(check) Yes X No

Airbill No:

Date Shipped:

(1) AA=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) Sample Type: AB=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) Preservative added: HA=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate If **NO preservative** added leave blank

Rev 5/12

680-124505

Login Sample Receipt Checklist

Client: Earth Toxics, Inc

Job Number: 680-124505-1

Login Number: 124505
List Number: 1
Creator: Murray, Thomas J

List Source: TestAmerica Savannah

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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

B-3

PCB Wipe

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-124509-1
Client Project/Site: Site Investigation/JMB5
Revision: 1

For:
Earth Toxics, Inc
PO BOX 3382
Logan, Utah 84321

Attn: Mike Dryden

Authorized for release by:
5/13/2016 4:17:50 PM
Robert Bearden, Project Manager I
(912)354-7858
robert.bearden@testamericainc.com

Designee for

Michele Kersey, Project Manager I
(912)354-7858
michele.kersey@testamericainc.com

Definitions/Glossary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Undetected at the Limit of Detection.

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 ra io
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)

Sample Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-124509-1	AV32 WSWTR-1	Wipe	04/18/16 14:20	04/26/16 10:00
680-124509-2	AV32 WSWTR-2	Wipe	04/18/16 14:23	04/26/16 10:00
680-124509-3	AV32 WSWTR-3	Wipe	04/18/16 14:27	04/26/16 10:00
680-124509-4	AV32 WSWTB-1	Wipe	04/18/16 14:43	04/26/16 10:00
680-124509-5	AV32 WSWTB-2	Wipe	04/18/16 14:46	04/26/16 10:00
680-124509-6	AV32 WSWTB-3	Wipe	04/18/16 14:50	04/26/16 10:00
680-124509-7	AV32 WS ETR-1	Wipe	04/18/16 15:08	04/26/16 10:00
680-124509-8	AV32 WS ETR-2	Wipe	04/18/16 15:12	04/26/16 10:00
680-124509-9	AV32 WS ETR-3	Wipe	04/18/16 15:15	04/26/16 10:00
680-124509-10	AV32 WS ETR-3D	Wipe	04/18/16 15:19	04/26/16 10:00

Job ID: 680-124509-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: Earth Toxics, Inc

Project: Site Investigation/JMB5

Report Number: 680-124509-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

REVISED REPORT
This report was revised to correct the narrative

RECEIPT
The samples were received on 4/26/2016 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.9º C and 4.4º C.

PESTICIDES AND PCBS
Samples AV32 WSWTR-1 (680-124509-1), AV32 WSWTR-2 (680-124509-2), AV32 WSWTR-3 (680-124509-3), AV32 WSWTB-1 (680-124509-4), AV32 WSWTB-2 (680-124509-5), AV32 WSWTB-3 (680-124509-6), AV32 WS ETR-1 (680-124509-7), AV32 WS ETR-2 (680-124509-8), AV32 WS ETR-3 (680-124509-9) and AV32 WS ETR-3D (680-124509-10) were analyzed for PCBs in accordance with EPA SW-846 Method 8082A. The samples were prepared and analyzed on 05/02/2016.

The following samples required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: AV32 WSWTR-1 (680 124509 1), AV32 WSWTR 2 (680 124509 2), AV32 WSWTR 3 (680 124509 3), AV32 WSWTB 1 (680 124509 4), AV32 WSWTB 2 (680-124509-5), AV32 WSWTB-3 (680-124509-6), AV32 WS ETR-1 (680-124509-7), AV32 WS ETR-2 (680-124509-8), AV32 WS ETR-3 (680-124509-9) and AV32 WS ETR-3D (680-124509-10).

This method incorporates 2nd column confirmation. Corrective action is not taken for surrogate/spike compounds unless results from both columns are unacceptable. Results outside criteria are qualified.

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

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Client Sample ID: AV32 WSWTR-1

Lab Sample ID: 680-124509-1

Date Collected: 04/18/16 14:20

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*30 - 130*	*05/02/16 11:00*	*05/02/16 16:33*	*1*
Tetrachloro-m-xylene	*81*		*30 - 130*	*05/02/16 11:00*	*05/02/16 16:33*	*1*

Client Sample ID: AV32 WSWTR-2

Lab Sample ID: 680-124509-2

Date Collected: 04/18/16 14:23

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 16:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*85*		*30 - 130*	*05/02/16 11:00*	*05/02/16 16:48*	*1*
Tetrachloro-m-xylene	*79*		*30 - 130*	*05/02/16 11:00*	*05/02/16 16:48*	*1*

Client Sample ID: AV32 WSWTR-3

Lab Sample ID: 680-124509-3

Date Collected: 04/18/16 14:27

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:03*	*1*
Tetrachloro-m-xylene	*82*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:03*	*1*

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Client Sample ID: AV32 WSWTB-1

Lab Sample ID: 680-124509-4

Date Collected: 04/18/16 14:43

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:19*	*1*
Tetrachloro-m-xylene	*81*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:19*	*1*

Client Sample ID: AV32 WSWTB-2

Lab Sample ID: 680-124509-5

Date Collected: 04/18/16 14:46

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:34*	*1*
Tetrachloro-m-xylene	*83*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:34*	*1*

Client Sample ID: AV32 WSWTB-3

Lab Sample ID: 680-124509-6

Date Collected: 04/18/16 14:50

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 17:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:50*	*1*
Tetrachloro-m-xylene	*77*		*30 - 130*	*05/02/16 11:00*	*05/02/16 17:50*	*1*

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Client Sample ID: AV32 WS ETR-1

Lab Sample ID: 680-124509-7

Date Collected: 04/18/16 15:08

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*86*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:05*	*1*
Tetrachloro-m-xylene	*83*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:05*	*1*

Client Sample ID: AV32 WS ETR-2

Lab Sample ID: 680-124509-8

Date Collected: 04/18/16 15:12

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*83*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:20*	*1*
Tetrachloro-m-xylene	*83*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:20*	*1*

Client Sample ID: AV32 WS ETR-3

Lab Sample ID: 680-124509-9

Date Collected: 04/18/16 15:15

Matrix: Wipe

Date Received: 04/26/16 10:00

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:36*	*1*
Tetrachloro-m-xylene	*80*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:36*	*1*

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Client Sample ID: AV32 WS ETR-3D
Date Collected: 04/18/16 15:19
Date Received: 04/26/16 10:00

Lab Sample ID: 680-124509-10
Matrix: Wipe

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*81*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:51*	*1*
Tetrachloro-m-xylene	*80*		*30 - 130*	*05/02/16 11:00*	*05/02/16 18:51*	*1*

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 680-431485/11-A
Matrix: Wipe
Analysis Batch: 431492

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431485

Analyte	MB Result	MB Qualifier	LOQ	DL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1
PCB-1221	2.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1
PCB-1232	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1
PCB-1242	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1
PCB-1248	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1
PCB-1254	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1
PCB-1260	1.0	U	1.0	1.0	ug/Wipe		05/02/16 11:00	05/02/16 15:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*89*		*30 - 130*	*05/02/16 11:00*	*05/02/16 15:46*	*1*
Tetrachloro-m-xylene	*82*		*30 - 130*	*05/02/16 11:00*	*05/02/16 15:46*	*1*

Lab Sample ID: LCS 680-431485/12-A
Matrix: Wipe
Analysis Batch: 431492

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431485

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			6.00	5.20		ug/Wipe		87	30 - 130		
PCB-1260			6.00	5.37		ug/Wipe		89	30 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*91*		*30 - 130*
Tetrachloro-m-xylene	*81*		*30 - 130*

Lab Sample ID: LCSD 680-431485/13-A
Matrix: Wipe
Analysis Batch: 431492

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 431485

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			6.00	5.24		ug/Wipe		87	30 - 130	1	50
PCB-1260			6.00	5.48		ug/Wipe		91	30 - 130	2	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*30 - 130*
Tetrachloro-m-xylene	*80*		*30 - 130*

QC Association Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

GC Semi VOA

Prep Batch: 431485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124509-1	AV32 WSWTR-1	Total/NA	Wipe	3550C	
680-124509-2	AV32 WSWTR-2	Total/NA	Wipe	3550C	
680-124509-3	AV32 WSWTR-3	Total/NA	Wipe	3550C	
680-124509-4	AV32 WSWTB-1	Total/NA	Wipe	3550C	
680-124509-5	AV32 WSWTB-2	Total/NA	Wipe	3550C	
680-124509-6	AV32 WSWTB-3	Total/NA	Wipe	3550C	
680-124509-7	AV32 WS ETR-1	Total/NA	Wipe	3550C	
680-124509-8	AV32 WS ETR-2	Total/NA	Wipe	3550C	
680-124509-9	AV32 WS ETR-3	Total/NA	Wipe	3550C	
680-124509-10	AV32 WS ETR-3D	Total/NA	Wipe	3550C	
LCS 680-431485/12-A	Lab Control Sample	Total/NA	Wipe	3550C	
LCSD 680-431485/13-A	Lab Control Sample Dup	Total/NA	Wipe	3550C	
MB 680-431485/11-A	Method Blank	Total/NA	Wipe	3550C	

Analysis Batch: 431492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-124509-1	AV32 WSWTR-1	Total/NA	Wipe	8081B/8082A	431485
680-124509-2	AV32 WSWTR-2	Total/NA	Wipe	8081B/8082A	431485
680-124509-3	AV32 WSWTR-3	Total/NA	Wipe	8081B/8082A	431485
680-124509-4	AV32 WSWTB-1	Total/NA	Wipe	8081B/8082A	431485
680-124509-5	AV32 WSWTB-2	Total/NA	Wipe	8081B/8082A	431485
680-124509-6	AV32 WSWTB-3	Total/NA	Wipe	8081B/8082A	431485
680-124509-7	AV32 WS ETR-1	Total/NA	Wipe	8081B/8082A	431485
680-124509-8	AV32 WS ETR-2	Total/NA	Wipe	8081B/8082A	431485
680-124509-9	AV32 WS ETR-3	Total/NA	Wipe	8081B/8082A	431485
680-124509-10	AV32 WS ETR-3D	Total/NA	Wipe	8081B/8082A	431485
LCS 680-431485/12-A	Lab Control Sample	Total/NA	Wipe	8081B/8082A	431485
LCSD 680-431485/13-A	Lab Control Sample Dup	Total/NA	Wipe	8081B/8082A	431485
MB 680-431485/11-A	Method Blank	Total/NA	Wipe	8081B/8082A	431485

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Client Sample ID: AV32 WSWTR-1

Lab Sample ID: 680-124509-1

Date Collected: 04/18/16 14:20

Matrix: Wipe

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 16:33	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WSWTR-2

Lab Sample ID: 680-124509-2

Date Collected: 04/18/16 14:23

Matrix: Wipe

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 16:48	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WSWTR-3

Lab Sample ID: 680-124509-3

Date Collected: 04/18/16 14:27

Matrix: Wipe

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 17:03	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WSWTB-1

Lab Sample ID: 680-124509-4

Date Collected: 04/18/16 14:43

Matrix: Wipe

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 17:19	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WSWTB-2

Lab Sample ID: 680-124509-5

Date Collected: 04/18/16 14:46

Matrix: Wipe

Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 17:34	JCK	TAL SAV
	Instrument ID: CSGZ									

Lab Chronicle

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Client Sample ID: AV32 WSWTB-3

Lab Sample ID: 680-124509-6

Date Collected: 04/18/16 14:50
Matrix: Wipe
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 17:50	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WS ETR-1

Lab Sample ID: 680-124509-7

Date Collected: 04/18/16 15:08
Matrix: Wipe
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 18:05	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WS ETR-2

Lab Sample ID: 680-124509-8

Date Collected: 04/18/16 15:12
Matrix: Wipe
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 18:20	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WS ETR-3

Lab Sample ID: 680-124509-9

Date Collected: 04/18/16 15:15
Matrix: Wipe
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 18:36	JCK	TAL SAV
	Instrument ID: CSGZ									

Client Sample ID: AV32 WS ETR-3D

Lab Sample ID: 680-124509-10

Date Collected: 04/18/16 15:19
Matrix: Wipe
Date Received: 04/26/16 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			1 Wipe	10 mL	431485	05/02/16 11:00	CEW	TAL SAV
Total/NA	Analysis	8081B/8082A		1	1 Wipe	10 mL	431492	05/02/16 18:51	JCK	TAL SAV
	Instrument ID: CSGZ									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Certification Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		399.01	02-28-17
USDA	Federal		SAV 3-04	06-11-17

Method Summary

Client: Earth Toxics, Inc
Project/Site: Site Investigation/JMB5

TestAmerica Job ID: 680-124509-1

Method	Method Description	Protocol	Laboratory
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No. | Page 1 of 1

Project Name: Site Investigation | PO No. 20906 | Project No: 08888178.16 Phase: SI Task: SI

Site Location: GTMO, Cuba | **Sample Analysis Requested** (*Enter number of containers for each test*)

CTO No. JMB5 | RC Task Order Manager: Paul Stoddard

Sampler/Site Phone# Robbie Thomas / (615) 255-9300

Lab Name: Test America | Turnaround Time(specify): 7 days

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	PCBs	Extra Volume for MS/MSD	HOLD
	AV32WSWTR-1	WTR	4/18/16	1420	SW	N	N	1	X		
	AV32WSWTR-2	WTR		1423	SW	N	N	1	X		
	AV32WSWTR-3	WTR		1427	SW	N	N	1	X		
	AV32WSTB-1	TB		1443	SW	N	N	1	X		
	AV32WSTB-2	TB		1446	SW	N	N	1	X		
	AV32WSTB-3	TB		1450	SW	N	N	1	X		
	AV32WSETR-1	ETR		1508	SW	N	N	1	X		
	AV32WSETR-2	ETR		1512	SW	N	N	1	X		
	AV32WSETR-3	ETR		1515	SW	N	N	1	X		
	AV32WSETR-3D	ETR		1519	SW	~~N~~ FD	N	1	X		

680-124509 Chain of Custody

***Field* Comments:**

***Lab* Comments:**

Sample Shipment and Delivery Details

Number of coolers in shipment: 1

	Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	Robbie Thomas	4/23/16	0710	[signature]	4/23/16	0710
2	[signature]	4/25/2016	1530	[signature]	4/26/2016	1430
3				[signature]	4-26-16	10:00

Samples Iced?(check) Yes ✓ No ___

Airbill No:

Date Shipped:

(1) **AA**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) **Sample Type:** **AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) **Preservative added:** **HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate | If **NO preservative** added leave blank

Rev 5/12

5/13/2016

Login Sample Receipt Checklist

Client: Earth Toxics, Inc

Job Number: 680-124509-1

Login Number: 124509

List Source: TestAmerica Savannah

List Number: 1

Creator: Murray, Thomas J

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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have leg ble labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
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	

Attachment C
Analytical Result Tables

C-1
Soil

			Sample Location:	BS01	BS02	BS03	BS03	BS04	BS05	BS06	BS07	BS08
			Sample ID:	AOP SB S01	AOP SB S02	AOP CB S03	AOP SB S03	AOP SB S04	AOP SB S05	AOP SB S06	AOP SB S07	AOP SB S08
			Sample Date:	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015
			Sample Type:	Normal	Normal	Duplicate	Normal	Normal	Normal	Normal	Normal	Normal
			Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Method	**CAS No.**	**Analyte**	**Units**									
6020A	7429-90-5	ALUMINUM	MG_KG	**10000**	**11000**	**11000**	**11000**	**12000**	**12000**	**10000**	**12000**	**12000**
6020A	7440-36-0	ANTIMONY	MG_KG	0.29 U	**0.29 J**	**0.41 J**	**0.42 J**	**1.3**	**0.2 J**	**0.35 J**	**0.36 J**	**0.23 J**
6020A	7440-38-2	ARSENIC	MG_KG	**1.4**	**1.2**	**1.2**	**1.3**	**1.9**	**1.8**	**2**	**1.5**	**1.6**
6020A	7440-39-3	BARIUM	MG_KG	**26**	**40**	**37**	**38**	**45**	**46**	**48**	**32**	**40**
6020A	7440-41-7	BERYLLIUM	MG_KG	**0.17**	**0.26**	**0.26**	**0.22**	**0.18**	**0.26**	**0.21**	**0.2**	**0.21**
6020A	7440-43-9	CADMIUM	MG_KG	**0.23**	**0.66**	**1.5**	**1.4**	**0.53**	**0.15**	**0.4**	**0.21**	**0.22**
6020A	7440-70-2	CALCIUM	MG_KG	**5900**	**4700**	**5700**	**5700**	**4800**	**6200**	**7600**	**12000**	**8800**
6020A	7440-47-3	CHROMIUM, TOTAL	MG_KG	**740 J**	**820 J**	**800 J**	**790 J**	**810 J**	**790 J**	**710 J**	**680 J**	**660 J**
6020A	7440-48-4	COBALT	MG_KG	**81**	**93**	**84**	**77**	**79**	**78**	**79**	**83**	**76**
6020A	7440-50-8	COPPER	MG_KG	**38**	**45**	**41**	**39**	**42**	**37**	**38**	**42**	**38**
6020A	7439-89-6	IRON	MG_KG	**34000**	**35000**	**35000**	**35000**	**40000**	**55000**	**32000**	**37000**	**52000**
6020A	7439-92-1	LEAD	MG_KG	**7.3**	**6.2**	**8.7**	**8.5**	**6.6**	**5.6**	**15**	**14**	**11**
6020A	7439-95-4	MAGNESIUM	MG_KG	**98000**	**51000**	**48000 J**	**92000 J**	**88000**	**87000**	**87000**	**100000**	**91000**
6020A	7439-96-5	MANGANESE	MG_KG	**850**	**1100**	**1000**	**960**	**950**	**1000**	**950**	**980**	**950**
6020A	7440-02-0	NICKEL	MG_KG	**1400**	**1500**	**1400**	**1400**	**1700**	**1500**	**1300**	**1500**	**1400**
6020A	7440-09-7	POTASSIUM	MG_KG	**1700**	**1900**	**1700**	**1700**	**2100**	**1900**	**2200**	**1900**	**2700**
6020A	7782-49-2	SELENIUM	MG_KG	**0.18 J**	**0.23 J**	**0.16 J**	**0.2 J**	**0.29 J**	**0.19 J**	**0.18 J**	**0.15 J**	**0.25 J**
6020A	7440-22-4	SILVER	MG_KG	**0.038 J**	**0.046 J**	**0.04 J**	**0.051 J**	**0.052 J**	**0.053 J**	**0.045 J**	**0.049 J**	**0.043 J**
6020A	7440-23-5	SODIUM	MG_KG	**63**	**67**	**97**	**80**	**94**	**84**	**77**	**86**	**210**
6020A	7440-28-0	THALLIUM	MG_KG	0.097 U	**0.054 J**	0.1 U	0.1 U	0.11 U	0.1 U	0.097 U	0.097 U	0.1 U
6020A	7440-62-2	VANADIUM	MG_KG	**64**	**73**	**70**	**68**	**77**	**80**	**72**	**68**	**66**
6020A	7440-66-6	ZINC	MG_KG	**49**	**60**	**92**	**91**	**58**	**55**	**72**	**80**	**79**

Notes:

MG_KG = Milligrams per kilogram

J = Estimated value

U = Not detected

Bold = Detected

			Sample Location:	BS09	BS10	BS11	BS12	BS13	BS14	BS14
			Sample ID:	AOP SB S09	AOP SB S10	AOP SB S11	AOP SB S12	AOP SB S13	AOP CB S14	AOP SB S14
			Sample Date:	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015	10/15/2015
			Sample Type:	Normal	Normal	Normal	Normal	Normal	Duplicate	Normal
			Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Method	**CAS No.**	**Analyte**	**Units**							
6020A	7429-90-5	ALUMINUM	MG_KG	**18000**	**10000**	**12000**	**11000**	**12000**	**11000**	**10000**
6020A	7440-36-0	ANTIMONY	MG_KG	**0.59 J**	**0.64 J**	0.32 U	0.28 U	**0.11 J**	0.28 U	0.27 U
6020A	7440-38-2	ARSENIC	MG_KG	**1.7**	**2.7**	**1.1**	**1.4**	**1.6**	**1**	**1.2**
6020A	7440-39-3	BARIUM	MG_KG	**23**	**40**	**32**	**28**	**57**	**23**	**24**
6020A	7440-41-7	BERYLLIUM	MG_KG	**0.21**	**0.24 J**	**0.14**	**0.2**	**0.22**	**0.23 J**	**0.14**
6020A	7440-43-9	CADMIUM	MG_KG	**0.33**	**0.29**	**0.11**	**0.15**	**0.16**	**0.17**	**0.17**
6020A	7440-70-2	CALCIUM	MG_KG	**14000**	**11000**	**11000**	**30000**	**5400**	**12000**	**11000**
6020A	7440-47-3	CHROMIUM, TOTAL	MG_KG	**680 J**	**690 J**	**620 J**	**620 J**	**850 J**	**760 J**	**730 J**
6020A	7440-48-4	COBALT	MG_KG	**69**	**75**	**75**	**77**	**94**	**96**	**83**
6020A	7440-50-8	COPPER	MG_KG	**50**	**60**	**34**	**34**	**43**	**36**	**31**
6020A	7439-89-6	IRON	MG_KG	**53000**	**32000**	**32000**	**30000**	**37000**	**30000**	**29000**
6020A	7439-92-1	LEAD	MG_KG	**26**	**42**	**17**	**30**	**38**	**19**	**19**
6020A	7439-95-4	MAGNESIUM	MG_KG	**100000**	**88000**	**100000**	**52000**	**87000**	**120000**	**120000**
6020A	7439-96-5	MANGANESE	MG_KG	**780**	**900**	**800**	**790**	**1000**	**900**	**790**
6020A	7440-02-0	NICKEL	MG_KG	**1200**	**1200**	**1500**	**1400**	**1700**	**1600**	**1700**
6020A	7440-09-7	POTASSIUM	MG_KG	**1000**	**1400**	**1400**	**1500**	**2300**	**1000**	**1100**
6020A	7782-49-2	SELENIUM	MG_KG	**0.14 J**	**0.18 J**	**0.13 J**	**0.17 J**	**0.27 J**	**0.22 J**	**0.21 J**
6020A	7440-22-4	SILVER	MG_KG	**0.036 J**	**0.049 J**	**0.029 J**	**0.028 J**	**0.046 J**	**0.032 J**	**0.034 J**
6020A	7440-23-5	SODIUM	MG_KG	**250**	**270**	**91**	**180**	**100**	**90**	**78**
6020A	7440-28-0	THALLIUM	MG_KG	0.1 U	0.099 U	0.11 U	0.095 U	0.1 U	0.095 U	0.091 U
6020A	7440-62-2	VANADIUM	MG_KG	**70**	**71**	**68**	**65**	**82**	**68**	**73**
6020A	7440-66-6	ZINC	MG_KG	**74**	**89**	**55**	**58**	**72**	**83**	**85**

Notes:

MG_KG = Milligrams per kilogram

J = Estimated value

U = Not detected

Bold = Detected

			Sample Location:	M2-1	M2-2	M2-3	M2-3	M2-4	M2-5	M3-1	M3-2
			Sample ID:	AOPS M201-1	AOPS M201-2	AOPS M201-3	AOPC M201-3	AOPS M201-4	AOPS M201-5	AOPS M301-1	AOPS M301-2
			Sample Date:	04/21/2016	04/21/2016	04/21/2016	04/21/2016	04/21/2016	04/21/2016	04/21/2016	04/21/2016
			Sample Type:	Normal	Normal	Normal	Duplicate	Normal	Normal	Normal	Normal
			Matrix:	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Method	**CAS No.**	**Analyte**	**Units**								
8270D	90-12-0	1-METHYLNAPHTHALENE	MG_KG	**0.14**	**0.2**	0.019 U	0.0037 U	**0.023 J**	**0.14**	**0.35**	**0.085**
8270D	91-57-6	2-METHYLNAPHTHALENE	MG_KG	**0.12**	**0.19**	0.038 U	0.0075 U	**0.025 J**	**0.15**	**0.42**	**0.088**
8270D	83-32-9	ACENAPHTHENE	MG_KG	**0.9**	**1.3**	**0.09**	**0.014**	**0.17**	**0.94**	**1.9**	**0.46**
8270D	208-96-8	ACENAPHTHYLENE	MG_KG	**0.066**	**0.077**	0.038 U	**0.0039 J**	0.039 U	**0.079**	**0.1**	**0.037 J**
8270D	120-12-7	ANTHRACENE	MG_KG	**1**	**1.6**	**0.14**	**0.029**	**0.28**	**1**	**2.1**	**0.45**
8270D	56-55-3	BENZO[A]ANTHRACENE	MG_KG	**5.8**	**10**	**0.42 J**	**0.12 J**	**1.2**	**5.7**	**11**	**2.5**
8270D	50-32-8	BENZO[A]PYRENE	MG_KG	**5.7**	**9**	**0.36 J**	**0.12 J**	**1.2**	**5.1**	**10**	**2.3**
8270D	205-99-2	BENZO[B]FLUORANTHENE	MG_KG	**10**	**15**	**0.59 J**	**0.22 J**	**2**	**11**	**17**	**4**
8270D	191-24-2	BENZO[G,H,I]PERYLENE	MG_KG	**2.5**	**2.9**	**0.17**	**0.063**	**0.57**	**2.3**	**4.6**	**1.1**
8270D	207-08-9	BENZO[K]FLUORANTHENE	MG_KG	**3.1**	**2.5**	**0.29 J**	**0.073 J**	**0.68**	**3.2**	**7.2**	**1.8**
8270D	218-01-9	CHRYSENE	MG_KG	**6.4**	**11**	**0.42 J**	**0.12 J**	**1.3**	**6.4**	**13**	**2.9**
8270D	53-70-3	DIBENZ[A,H]ANTHRACENE	MG_KG	**1.2**	**1.3**	**0.062**	**0.02**	**0.18**	**0.77**	**1.6**	**0.38**
8270D	206-44-0	FLUORANTHENE	MG_KG	**13**	**20**	**0.87 J**	**0.24 J**	**2.6**	**15**	**24**	**5.1**
8270D	86-73-7	FLUORENE	MG_KG	**0.43**	**0.71**	**0.061**	**0.0091**	**0.11**	**0.42**	**1**	**0.2**
8270D	193-39-5	INDENO[1,2,3-CD]PYRENE	MG_KG	**1.7 J**	**1.9 J**	**0.12 J**	**0.037 J**	**0.33 J**	**1.4 J**	**2.2 J**	**0.66 J**
8270D	91-20-3	NAPHTHALENE	MG_KG	**0.099**	**0.2**	0.038 U	**0.0048 J**	**0.029 J**	**0.14**	**0.27**	**0.049 J**
8270D	85-01-8	PHENANTHRENE	MG_KG	**9.2**	**16**	**0.75 J**	**0.15 J**	**1.8**	**12**	**20**	**3.9**
8270D	129-00-0	PYRENE	MG_KG	**11**	**20**	**0.76 J**	**0.2 J**	**2.5**	**16**	**26**	**5.3**

Notes:

MG_KG = Milligrams per kilogram

J = Estimated value

U = Not detected

Bold = Detected

			Sample Location:	M3-3	M3-4
			Sample ID:	AOPS M301-3	AOPS M301-4
			Sample Date:	04/21/2016	04/21/2016
			Sample Type:	Normal	Normal
			Matrix:	Soil	Soil
Method	**CAS No.**	**Analyte**	**Units**		
8270D	90-12-0	1-METHYLNAPHTHALENE	MG_KG	**0.17**	**0.43**
8270D	91-57-6	2-METHYLNAPHTHALENE	MG_KG	**0.21**	**0.47**
8270D	83-32-9	ACENAPHTHENE	MG_KG	**0.75**	**3.2**
8270D	208-96-8	ACENAPHTHYLENE	MG_KG	**0.046 J**	**0.17**
8270D	120-12-7	ANTHRACENE	MG_KG	**0.68**	**4.8**
8270D	56-55-3	BENZO[A]ANTHRACENE	MG_KG	**3.7**	**19**
8270D	50-32-8	BENZO[A]PYRENE	MG_KG	**3.2**	**16**
8270D	205-99-2	BENZO[B]FLUORANTHENE	MG_KG	**5.3**	**26**
8270D	191-24-2	BENZO[G,H,I]PERYLENE	MG_KG	**1.4**	**6.8**
8270D	207-08-9	BENZO[K]FLUORANTHENE	MG_KG	**2.5**	**14**
8270D	218-01-9	CHRYSENE	MG_KG	**4.2**	**20**
8270D	53-70-3	DIBENZ[A,H]ANTHRACENE	MG_KG	**0.55**	**3.1**
8270D	206-44-0	FLUORANTHENE	MG_KG	**11**	**40**
8270D	86-73-7	FLUORENE	MG_KG	**0.28**	**1.8**
8270D	193-39-5	INDENO[1,2,3-CD]PYRENE	MG_KG	**0.92 J**	**4.1 J**
8270D	91-20-3	NAPHTHALENE	MG_KG	**0.16**	**0.59**
8270D	85-01-8	PHENANTHRENE	MG_KG	**9**	**34**
8270D	129-00-0	PYRENE	MG_KG	**11**	**41**

Notes:

MG_KG = Milligrams per kilogram

J = Estimated value

U = Not detected

Bold = Detected

C-2
PCB Wipe

			Sample Location:	ETR-1	ETR-2	ETR-3	ETR-3	TB-1	TB-2	TB-3	TR-1
			Sample ID:	AV32 WS ETR-1	AV32 WS ETR-2	AV32 WS ETR-3	AV32 WS ETR-3D	AV32 WSWTB-1	AV32 WSWTB-2	AV32 WSWTB-3	AV32 WSWTR-1
			Sample Date:	04/18/2016	04/18/2016	04/18/2016	04/18/2016	04/18/2016	04/18/2016	04/18/2016	04/18/2016
			Sample Type:	Normal	Normal	Normal	Duplicate	Normal	Normal	Normal	Normal
			Matrix:	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe	Wipe
Method	**CAS No.**	**Analyte**	**Units**								
8082A	12674-11-2	AROCLOR-1016	UG_WIPE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
8082A	11104-28-2	AROCLOR-1221	UG_WIPE	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
8082A	11141-16-5	AROCLOR-1232	UG_WIPE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
8082A	53469-21-9	AROCLOR-1242	UG_WIPE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
8082A	12672-29-6	AROCLOR-1248	UG_WIPE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
8082A	11097-69-1	AROCLOR-1254	UG_WIPE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
8082A	11096-82-5	AROCLOR-1260	UG_WIPE	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Notes:

UG_WIPE = Micrograms per wipe

U = Not detected

			Sample Location:	TR-2	TR-3
			Sample ID:	AV32 WSWTR-2	AV32 WSWTR-3
			Sample Date:	04/18/2016	04/18/2016
			Sample Type:	Normal	Normal
			Matrix:	Wipe	Wipe
Method	**CAS No.**	**Analyte**	**Units**		
8082A	12674-11-2	AROCLOR-1016	UG_WIPE	1 U	1 U
8082A	11104-28-2	AROCLOR-1221	UG_WIPE	2 U	2 U
8082A	11141-16-5	AROCLOR-1232	UG_WIPE	1 U	1 U
8082A	53469-21-9	AROCLOR-1242	UG_WIPE	1 U	1 U
8082A	12672-29-6	AROCLOR-1248	UG_WIPE	1 U	1 U
8082A	11097-69-1	AROCLOR-1254	UG_WIPE	1 U	1 U
8082A	11096-82-5	AROCLOR-1260	UG_WIPE	1 U	1 U

Notes:

UG_WIPE = Micrograms per wipe

U = Not detected