



June 12, 2017

Liberty Property Trust
500 Chesterfield Parkway
Malvern, Pennsylvania 19355

Attention: Rick Casey
Vice President, Due Diligence

Re: Limited Phase II Environmental Site Assessment
GH Dairy
8643 Eucalyptus Avenue
Ontario, San Bernardino County, CA
AECOM Project No. 60544486

Dear Mr. Casey:

AECOM is pleased to present Liberty Property Trust and Liberty Property Limited Partnership or their designee (collectively, Liberty, Client) with the findings of the Limited Phase II Environmental Site Assessment performed on GH Dairy at 8643 Eucalyptus Ave, Ontario, San Bernardino County, California (Subject Property). This letter report includes a summary of field activities, analytical results, and conclusions.

1.0 BACKGROUND

In April 2017, AECOM conducted a Phase I Environmental Site Assessment of the Subject Property, which consists of 37.3 acres of land consisting of a dairy farm. Specifically, the Subject Property is comprised of five distinct areas: Area 1 (the northern portion of the property) is improved with a residential structure, one milk barn and cow pen, and a covered drum and storage area (eastern portion), a small milk barn and two covered cow wash areas, (western portion); Area 2 (south of the northern portion of the property) consists of a fenced cattle corrals; Area 3 (south of the fenced cow area) consists of a manure piles; Area 4 (south of the manure piles) consists of a pasture that is used by the cattle for grazing; and Area 5 (south of the pasture) is comprised of a wastewater lagoon.

This assessment identified the following Recognized Environmental Conditions (RECs) in connection with the Subject Property:

- Based on the historical use of the Subject Property as agricultural land, since at least 1938 to the present, there is the potential for the Subject Property to contain pesticide and herbicide contamination. The historical use of pesticides/herbicides likely utilized over the years represents a REC to the Subject Property.
- The Subject Property is equipped with an underground wastewater system utilized to direct biological wastes (generated by in the milk barn during milking/cattle supporting activities; including the application of pesticides in order to prevent ticks, mites, and lice infestations)

to the pasture located in Area 4 of the Subject Property. The wastewater system works in conjunction with the flood irrigating of the pasture. Specifically, the site contact Mr. Gerben, stated that clean water flows from the well located north of residential structure which allows the generated wastes from the barn to gravity feed through underground 12" piping to the pasture and ultimately the wastewater lagoon located in Area 5 of the Subject Property. AECOM observed several large stand pipes containing valves within the pasture during site reconnaissance. On a weekly basis, the valves in the pasture are opened and the water and generated wastes are pumped from the well through the pipes to the pasture for flood irrigation. Based on the types of materials (specifically, pesticides used on the cattle in order to prevent ticks, mites, and lice infestations) that flow through the wastewater system, AECOM identifies the wastewater system and the associated wastewater lagoon as a REC to the Subject Property. In addition, if the wastewater system will no longer be utilized due to future construction on the property, AECOM recommends properly closing the wastewater system in accordance with state and local guidelines.

Based on the Phase I ESA, AECOM recommended completing a limited Phase II assessment of the Subject Property.

2.0 SOIL INVESTIGATION

On May 18, 2017, Ms. Sarah Vogel of AECOM conducted a Limited Phase II ESA on the Subject Property. Six soil borings (HA-1 through HA-6) were advanced via hand auger to approximately 12 inches below ground surface (bgs). AECOM collected four soil samples (HA-1 through HA-4) at randomly selected locations throughout the pasture and two soil samples (HA-5 and HA-6) at randomly selected locations throughout the wastewater lagoon area. See Figure 1 for a map identifying soil boring locations.

Soils encountered in the soil borings generally consisted of dark brown clayey silt. One soil grab sample was collected from the bottom of each boring (approximately 12 inches bgs).

Following collection, the soil samples were placed into laboratory-provided glassware, labeled, stored under iced conditions and transported under standard chain-of-custody protocol to TestAmerica Laboratories Inc. located in Pittsburgh, Pennsylvania for analysis of organochlorine pesticides via United States Environmental Protection Agency (USEPA) Method 8081, organophosphorus pesticides via USEPA Method 8141, herbicides by USEPA Method 8151, and RCRA eight metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver).

Soil Sample Results

The soil sample results were compared to the California Human Health Screening Levels Residential Scenario and Commercial/Industrial Scenario Soil Screening Numbers.

Organophosphorous pesticides and herbicides were not detected above the laboratory reporting limits in the soil samples. Six organochlorine pesticides (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, alpha-chlordane, dieldrin, and Heptachlor epoxide) were detected in the following soil samples:

- 4,4'-DDD was detected in two soil samples (HA-1 and HA-3) at concentrations of estimated values (J) 0.000721 mg/kg and 0.00021 mg/kg, respectively; however, both concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 2.3 mg/kg.
- 4,4-DDE was detected in all six soil samples at concentrations ranging from 0.000482 J mg/kg (HA-5) to 0.0103 mg/kg (HA-1); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 1.6 mg/kg.
- 4,4-DDT was detected in four soil samples (HA-1 through HA-4) at concentrations ranging from 0.00118 mg/kg (HA-2) to 0.00327 mg/kg (HA-1); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 1.6 mg/kg.
- alpha-Chlordane was detected in three soil samples (HA-1, HA-3, and HA-4) at concentrations ranging from 0.000256 J mg/kg (HA-3) to 0.000828 J mg/kg (HA-1); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 0.043 mg/kg.
- Dieldrin was detected in all six soil samples at concentrations ranging from 0.00313 mg/kg (HA-2) to 0.00918 mg/kg (HA-4); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 0.035 mg/kg.
- Heptachlor epoxide was detected in four soil samples (HA-1 through HA-4) at concentrations ranging from 0.000384 J mg/kg (HA-2) to 0.00137 J mg/kg (HA-1). A Residential Scenario Soil Screening Number is not established for heptachlor epoxide.

Seven metals (Arsenic, barium cadmium, chromium (III), chromium (VI), lead, and mercury) were detected in the following soil samples:

- Arsenic was detected in five of the six soil samples (HA-2 through HA-6) at concentrations ranging from an estimated value (J) of 0.84 mg/kg (HA-5) to 1.52 mg/kg (HA-6). The arsenic concentrations in all five soil samples were detected above the California Human Health Screening Levels Residential Scenario and the Commercial/Industrial Scenario Soil Screening Numbers of 0.07 mg/kg and 0.24 mg/kg, respectively.
- Barium was detected in all six soil samples at concentrations ranging from 93.5 mg/kg (HA-1) to 187 mg/kg (HA-3); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 5,200 mg/kg.
- Cadmium was detected in four soil samples (HA-1 through HA-4) at concentrations ranging from 0.557 J mg/kg (HA-1) to 0.266 mg/kg (HA-4); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 1.7 mg/kg.

- Chromium (III) was detected in all six soil samples at concentrations ranging from 12.9 mg/kg (HA-5) to 36.1 mg/kg (HA-1); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 100,000 mg/kg.
- Chromium (VI) was detected in four soil samples at concentrations ranging from 0.408 J mg/kg (HA-4) to 0.926 mg/kg (HA-1); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 17 mg/kg.
- Lead was detected in all six soil samples at concentrations ranging from 2.37 mg/kg (HA-5) to 7.44 mg/kg (HA-4); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 80 mg/kg.
- Mercury was detected in all six soil samples at concentrations ranging from 0.146 mg/kg (HA-5) to 0.851 mg/kg (HA-4); however, all concentrations were below the California Human Health Screening Levels Residential Scenario Soil Screening Number of 18 mg/kg.

All other results were detected below respective California Human Health Screening Level standards. Laboratory analytical results are summarized in Table 1 and the laboratory analytical report is included in Appendix A.

3.0 CONCLUSIONS/RECOMMENDATIONS

Based on the results of the investigation, AECOM makes the following conclusions and recommendations:

- Organophosphorous pesticides and herbicides were not detected above the laboratory reporting limits in any of the soil samples.
- 4,4'-DDD, 4,4-DDE, 4,4-DDT, alpha-Chlordane, dieldrin, and heptachlor epoxide were detected in various soil samples; however, all results were detected below their respective California Human Health Screening Levels Residential Scenario Soil Screening Number.
- Heptachlor epoxide was detected in four soil samples (HA-1 through HA-4); however, Scenario Soil Screening Numbers are not established for heptachlor epoxide.
- Barium, cadmium, chromium (III), chromium (VI), lead, and mercury were detected in various soil samples; however, all results were detected below their respective California Human Health Screening Levels Residential Scenario Soil Screening Number.
- Arsenic was detected in five of the six soil samples at concentrations above the California Human Health Screening Levels Residential Scenario of 0.07 mg/kg and the Commercial/Industrial Scenario of 0.24 mg/kg.

Based on published information, the concentrations of arsenic observed in the collected soil samples at the Subject Property lie within the range of naturally occurring background arsenic concentrations in southern California. The concentrations during AECOM's soil

sampling event ranged from 0.84 mg/kg to 1.52 mg/kg which are below the average within the range of natural background levels of arsenic in southern California ranging from 0.15 mg/kg to 19.63 mg/kg (*Determination of a Southern California Regional Background Arsenic Concentrations in Soil*).

AECOM did not observe obvious impacts in the Subject Property soils and the analytical data does not rise to concentrations warranting further investigation. Further, the residual concentrations are sufficiently low that no construction-related special handling is required. It should be understood that if soil is exported from the Subject Property for development, additional analytical characterization may be required to satisfy the environmental due diligence requirements of the receiving facility and the California Department of Toxic Substances Control.

4.0 LIMITATIONS

AECOM has performed the scope of work set forth in the proposal(s) related to this project, as they may have been amended (the "Proposals"), in specific reliance on the understandings and agreements reached between AECOM and Liberty Property Trust and Liberty Property Limited Partnership or their designee (collectively, Liberty, Client) as reflected in the Proposal and the written agreement between them (the "Agreement"). AECOM's scope of work was limited to that stated in the Proposal.

Opinions, Judgments and Third Party Rights: Opinions and judgments expressed herein, which are based on our understanding and interpretation of current regulatory standards, should not be construed as legal opinions. No third party shall have the right to rely on this report or other related project documentation without written consent from AECOM and Liberty.

AECOM's services in the development of this report were conducted, within the limits prescribed by the Agreement, in a manner consistent with that level of care and skill ordinarily exercised by members of the same professions currently practicing in the same locality under similar conditions and no other guaranty, warranty, or representation, either express or implied, is included or intended herein.

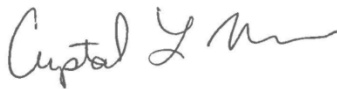
Client recognizes and agrees that:

- The information in the Report relates only to the properties specifically described in the Proposal and Report;
- The information and conclusions provided in the Report applies only to the Subject Property as it existed at the time of AECOM's site examination. Changes in applicable standards may occur because of changing environmental regulations or additional knowledge gained regarding a specific parameter. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.
- The Report is intended to be used in their entirety and no excerpts may be taken to be representative of the findings of this investigation.

Please feel free to contact us if you have any questions regarding the results or this report. We look forward to providing you with complete environmental and cost-effective solutions in the future.

If you have any questions regarding the report, please contact the undersigned at 610-832-3500.

Sincerely,
AECOM



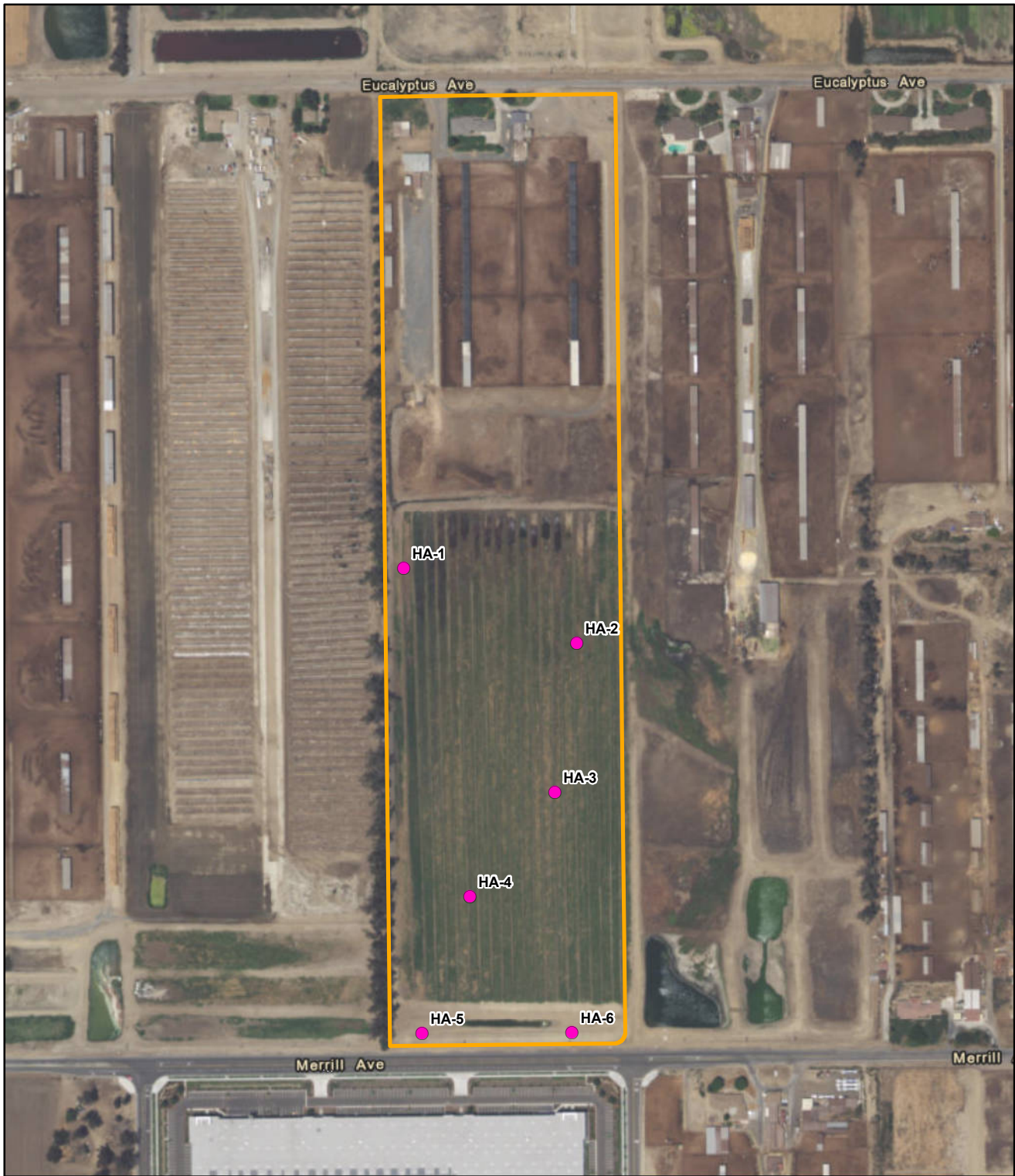
Crystal L. May
Environmental Scientist



George H. Keil
Associate Vice President

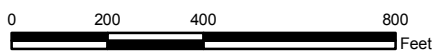
Figure 1 – Soil Boring Locations
Table 1 – Summary of Laboratory Analytical Data
Appendix A – Laboratory Analytical Results

FIGURE



Legend

- Approximate Location of Soil Boring
- Approximate Site Boundary



NAD 1983 State Plane California V
 Projection: Lambert Conformal Conic
 Linear Unit: US Foot
 Reference:
 LA County GIS Data Portal (2015)
 AECOM Custom Data



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 Conshohocken, PA 19428
 Phone: (610) 832-3500 Fax: (610) 832-3501

Job: 60544486

Prepared by: BSF

Checked by: CM

Date: 6/1/2017

FIGURE 1
Soil Boring Locations Map

8643 Eucalyptus Avenue
 Chino, San Bernardino County, California

TABLE

Table 1
Soil Analytical Results
GH Dairy
8643 Eucalyptus Avenue
Ontario, California

Sample ID	Soil Screening Number*		HA-1		HA-2		HA-3		HA-4		HA-5		HA-6	
Lab ID	Residential Scenario	Commercial/Industrial Scenario	180-66504-1		180-66504-2		180-66504-3		180-66504-4		180-66504-5		180-66504-6	
Date			5/18/2017		42873		42873		42873		42873		42873	
Compound			Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
Metals by USEPA Methods 61010C/7471C														
Arsenic	0.07	0.24	ND		1.25	J	1.25	J	1.22	J	0.840	J	1.52	
Barium	5200	63000	187		166		178		163		93.5		96.1	
Cadmium	1.7	7.5	0.557	J	0.208	J	0.206	J	0.266	J	ND		ND	
Chromium (III)	100000	100000	36.1		18.3		18.9		27.2		12.9		19.1	
Chromium (VI)	17	37	0.926	J	0.90		ND		0.408	J	0.74	J	ND	
Lead	80	320	9.36		6.72		7.26		7.44		2.37		2.53	
Mercury	18	180	0.771	B	0.331	B	0.518	B	0.851	B	0.0146	J B	0.0199	J B
Selenium	380	4800	ND		ND		ND		ND		ND		ND	
Silver	380	4800	ND		ND		ND		ND		ND		ND	

Notes:

All results are reported in miligrams per kilogram (mg/kg)

J - result is an estimated value

B - the compound was detected in a blank sample

Q - Qualifier

Result was detected above Residential and Commercial/Industrial Scenarios

USEPA - United States Environmental Protection Agency

*California Human Health Screening Levels

APPENDIX A
LABORATORY ANALYTICAL RESULTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-66504-1

Client Project/Site: Ontario, California Soil Samples

For:

AECOM, Inc.

625 West Ridge Pike

Suite E-100

Conshohocken, Pennsylvania 19428

Attn: Crystal May



Authorized for release by:

5/31/2017 12:06:27 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

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Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Job ID: 180-66504-1

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative 180-66504-1

Receipt

The samples were received on 5/19/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

Pesticides

The following samples were diluted due to the nature of the sample matrix: HA-1 (180-66504-1), HA-2 (180-66504-2), HA-3 (180-66504-3), HA-4 (180-66504-4), HA-5 (180-66504-5), HA-6 (180-66504-6), and HA-1-DUP (180-66504-7).. Elevated reporting limits (RLs) are provided. Sample extracts had a dark green color.

OPPs

The following samples were diluted due to the nature of the sample matrix: HA-1 (180-66504-1), HA-2 (180-66504-2), HA-3 (180-66504-3), HA-4 (180-66504-4), and HA-1-DUP (180-66504-7). Elevated reporting limits (RLs) are provided.

Herbicides

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

Metals

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

General Chemistry

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

Definitions/Glossary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Accreditation/Certification Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2891	03-31-18

The following analytes are included in this report, but are not accredited/certified under this accreditation/certification:

Analysis Method	Prep Method	Matrix	Analyte
2540G		Solid	Percent Moisture
2540G		Solid	Percent Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Sample Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66504-1	HA-1	Solid	05/18/17 13:42	05/19/17 09:10
180-66504-2	HA-2	Solid	05/18/17 13:55	05/19/17 09:10
180-66504-3	HA-3	Solid	05/18/17 14:05	05/19/17 09:10
180-66504-4	HA-4	Solid	05/18/17 14:18	05/19/17 09:10
180-66504-5	HA-5	Solid	05/18/17 14:30	05/19/17 09:10
180-66504-6	HA-6	Solid	05/18/17 14:38	05/19/17 09:10
180-66504-7	HA-1-DUP	Solid	05/18/17 13:42	05/19/17 09:10



Method Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PIT
8141A	Organophosphorous Pesticides (GC)	SW846	TAL PIT
8151A	Herbicides (GC)	SW846	TAL PIT
6010B	Metals (ICP)	SW846	TAL PIT
7471A	Mercury (CVAA)	SW846	TAL PIT
2540G	SM 2540G	SM22	TAL PIT

Protocol References:

SM22 = SM22

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
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	2540G		1			211899	05/22/17 17:08	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
Matrix: Solid
Percent Solids: 36.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 20:05	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.1 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		5			212416	05/26/17 14:15	JMO	TAL PIT
Instrument ID: CHGC5										
Total/NA	Prep	8151A			50.1 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT
Total/NA	Analysis	8151A		20			212150	05/24/17 16:45	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.01 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 16:52	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.65 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:27	JDD	TAL PIT
Instrument ID: K										

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
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	2540G		1			211889	05/22/17 14:03	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.0 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 20:21	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.0 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		5			212416	05/26/17 15:54	JMO	TAL PIT
Instrument ID: CHGC5										

TestAmerica Pittsburgh

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8151A			50.1 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT
Total/NA	Analysis	8151A		20			212150	05/24/17 17:10	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.07 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 17:24	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.60 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:29	JDD	TAL PIT
Instrument ID: K										

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
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	2540G		1			211889	05/22/17 14:03	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
Matrix: Solid
Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 20:36	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.2 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		5			212416	05/26/17 16:27	JMO	TAL PIT
Instrument ID: CHGC5										
Total/NA	Prep	8151A			50.2 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT
Total/NA	Analysis	8151A		20			212150	05/24/17 17:34	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.04 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 17:29	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.60 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:31	JDD	TAL PIT
Instrument ID: K										

TestAmerica Pittsburgh

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-4
Date Collected: 05/18/17 14:18
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4
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	2540G		1			211889	05/22/17 14:03	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-4
Date Collected: 05/18/17 14:18
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4
Matrix: Solid
Percent Solids: 57.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 20:52	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.4 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		5			212416	05/26/17 17:01	JMO	TAL PIT
Instrument ID: CHGC5										
Total/NA	Prep	8151A			50.3 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT
Total/NA	Analysis	8151A		20			212150	05/24/17 17:59	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.02 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 17:34	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.62 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:33	JDD	TAL PIT
Instrument ID: K										

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
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	2540G		1			211889	05/22/17 14:03	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.3 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 21:07	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.3 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		1			212416	05/26/17 17:34	JMO	TAL PIT
Instrument ID: CHGC5										
Total/NA	Prep	8151A			50.1 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8151A		20			212150	05/24/17 18:23	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.03 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 17:39	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.61 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:35	JDD	TAL PIT
Instrument ID: K										

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
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	2540G		1			211899	05/22/17 17:08	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.4 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 21:23	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.1 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		1			212416	05/26/17 18:07	JMO	TAL PIT
Instrument ID: CHGC5										
Total/NA	Prep	8151A			50.2 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT
Total/NA	Analysis	8151A		20			212150	05/24/17 18:48	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.10 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 17:45	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.63 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:37	JDD	TAL PIT
Instrument ID: K										

Client Sample ID: HA-1-DUP
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-7
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	2540G		1			211899	05/22/17 17:08	JJZ	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-1-DUP

Lab Sample ID: 180-66504-7

Date Collected: 05/18/17 13:42

Matrix: Solid

Date Received: 05/19/17 09:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	2540G		1			211899	05/22/17 17:08	JJZ	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-1-DUP

Lab Sample ID: 180-66504-7

Date Collected: 05/18/17 13:42

Matrix: Solid

Date Received: 05/19/17 09:10

Percent Solids: 43.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			15.2 g	1.0 mL	212361	05/26/17 04:12	BAP	TAL PIT
Total/NA	Analysis	8081A		10			212418	05/26/17 22:09	DFE	TAL PIT
Instrument ID: CHGC15										
Total/NA	Prep	3541			15.0 g	1.0 mL	212360	05/26/17 04:11	BAP	TAL PIT
Total/NA	Analysis	8141A		5			212416	05/26/17 18:40	JMO	TAL PIT
Instrument ID: CHGC5										
Total/NA	Prep	8151A			50.0 g	10.0 mL	211995	05/23/17 11:30	CBY	TAL PIT
Total/NA	Analysis	8151A		20			212150	05/24/17 19:12	JMO	TAL PIT
Instrument ID: CGC1										
Total/NA	Prep	3050B			1.10 g	100 mL	212335	05/25/17 17:21	JVH	TAL PIT
Total/NA	Analysis	6010B		1			212728	05/30/17 17:50	RJG	TAL PIT
Instrument ID: Q										
Total/NA	Prep	7471A			0.62 g	100 mL	212470	05/26/17 11:05	DLL	TAL PIT
Total/NA	Analysis	7471A		1			212591	05/28/17 11:39	JDD	TAL PIT
Instrument ID: K										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

BAP = Brian Pino

CBY = Charles Yushinski

DLL = Debbie Lowe

JVH = Jackson Ho

Batch Type: Analysis

DFE = David Eppinger

JDD = James DeRubeis

JJZ = Joseph Zubrow

JMO = John Oravec

RJG = Rob Good

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
Matrix: Solid
Percent Solids: 36.5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.237	U	2.24	0.237	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
alpha-BHC	0.659	U	2.24	0.659	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
beta-BHC	0.503	U	2.24	0.503	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
delta-BHC	0.799	U	2.24	0.799	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
gamma-BHC (Lindane)	0.462	U	2.24	0.462	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
alpha-Chlordane	0.828	J p	2.24	0.360	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
gamma-Chlordane	0.175	U	2.24	0.175	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
4,4'-DDD	0.721	J p	2.24	0.229	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
4,4'-DDE	10.3		2.24	0.712	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
4,4'-DDT	3.27		2.24	0.229	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Dieldrin	8.56		2.24	0.212	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Endosulfan I	0.142	U	2.24	0.142	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Endosulfan II	0.686	U	2.24	0.686	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Endosulfan sulfate	0.285	U	2.24	0.285	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Endrin	0.653	U	2.24	0.653	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Endrin aldehyde	0.659	U	2.24	0.659	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Endrin ketone	0.747	U	2.24	0.747	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Heptachlor	0.194	U	2.24	0.194	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Heptachlor epoxide	1.37	J	2.24	0.269	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Methoxychlor	0.651	U	2.24	0.651	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10
Toxaphene	73.7	U	89.6	73.7	ug/Kg	☼	05/26/17 04:12	05/26/17 20:05	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	51		32 - 114	05/26/17 04:12	05/26/17 20:05	10
Tetrachloro-m-xylene	58		32 - 114	05/26/17 04:12	05/26/17 20:05	10
DCB Decachlorobiphenyl (Surr)	76		26 - 143	05/26/17 04:12	05/26/17 20:05	10
DCB Decachlorobiphenyl (Surr)	69		26 - 143	05/26/17 04:12	05/26/17 20:05	10

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	62.5	U F2 F1	180	62.5	ug/Kg	☼	05/26/17 04:11	05/26/17 14:15	5
Demeton, Total	78.2	U F2	360	78.2	ug/Kg	☼	05/26/17 04:11	05/26/17 14:15	5
Malathion	43.5	U F2 F1	180	43.5	ug/Kg	☼	05/26/17 04:11	05/26/17 14:15	5
Methyl parathion	38.7	U F2 F1	180	38.7	ug/Kg	☼	05/26/17 04:11	05/26/17 14:15	5
Parathion	36.5	U F2 F1	180	36.5	ug/Kg	☼	05/26/17 04:11	05/26/17 14:15	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	47		28 - 150	05/26/17 04:11	05/26/17 14:15	5
Tributyl phosphate	38		28 - 150	05/26/17 04:11	05/26/17 14:15	5
Triphenylphosphate	56		45 - 150	05/26/17 04:11	05/26/17 14:15	5
Triphenylphosphate	60		45 - 150	05/26/17 04:11	05/26/17 14:15	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	15.0	U	219	15.0	ug/Kg	☼	05/23/17 11:30	05/24/17 16:45	20
2,4,5-T	6.87	U	54.7	6.87	ug/Kg	☼	05/23/17 11:30	05/24/17 16:45	20
Silvex (2,4,5-TP)	5.75	U	54.7	5.75	ug/Kg	☼	05/23/17 11:30	05/24/17 16:45	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	70		19 - 122	05/23/17 11:30	05/24/17 16:45	20

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
Matrix: Solid
Percent Solids: 36.5

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	68		19 - 122	05/23/17 11:30	05/24/17 16:45	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.451	U	1.36	0.451	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1
Arsenic	1.20	U	2.72	1.20	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1
Barium	187		54.3	14.6	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1
Cadmium	0.557	J	1.36	0.305	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1
Chromium	37.0		1.36	0.353	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1
Lead	9.36		2.72	0.891	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1
Selenium	1.08	U	2.72	1.08	mg/Kg	☼	05/25/17 17:21	05/30/17 16:52	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.771	B	0.0835	0.0187	mg/Kg	☼	05/26/17 11:05	05/28/17 11:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	63.5		0.1	0.1	%			05/22/17 17:08	1
Percent Solids	36.5		0.1	0.1	%			05/22/17 17:08	1

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid
Percent Solids: 72.0

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.122	U	1.16	0.122	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
alpha-BHC	0.340	U	1.16	0.340	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
beta-BHC	0.260	U	1.16	0.260	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
delta-BHC	0.412	U	1.16	0.412	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
gamma-BHC (Lindane)	0.239	U	1.16	0.239	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
alpha-Chlordane	0.186	U	1.16	0.186	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
gamma-Chlordane	0.0903	U	1.16	0.0903	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
4,4'-DDD	0.118	U	1.16	0.118	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
4,4'-DDE	2.52		1.16	0.368	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
4,4'-DDT	1.18		1.16	0.118	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Dieldrin	3.13		1.16	0.110	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Endosulfan I	0.0736	U	1.16	0.0736	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Endosulfan II	0.354	U	1.16	0.354	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Endosulfan sulfate	0.147	U	1.16	0.147	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Endrin	0.337	U	1.16	0.337	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Endrin aldehyde	0.340	U	1.16	0.340	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Endrin ketone	0.386	U	1.16	0.386	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Heptachlor	0.100	U	1.16	0.100	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Heptachlor epoxide	0.384	J	1.16	0.139	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Methoxychlor	0.336	U	1.16	0.336	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10
Toxaphene	38.1	U	46.3	38.1	ug/Kg	☼	05/26/17 04:12	05/26/17 20:21	10

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid
Percent Solids: 72.0

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	44		32 - 114	05/26/17 04:12	05/26/17 20:21	10
Tetrachloro-m-xylene	51		32 - 114	05/26/17 04:12	05/26/17 20:21	10
DCB Decachlorobiphenyl (Surr)	61		26 - 143	05/26/17 04:12	05/26/17 20:21	10
DCB Decachlorobiphenyl (Surr)	62		26 - 143	05/26/17 04:12	05/26/17 20:21	10

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	31.9	U	91.6	31.9	ug/Kg	☼	05/26/17 04:11	05/26/17 15:54	5
Demeton, Total	39.8	U	183	39.8	ug/Kg	☼	05/26/17 04:11	05/26/17 15:54	5
Malathion	22.2	U	91.6	22.2	ug/Kg	☼	05/26/17 04:11	05/26/17 15:54	5
Methyl parathion	19.7	U	91.6	19.7	ug/Kg	☼	05/26/17 04:11	05/26/17 15:54	5
Parathion	18.6	U	91.6	18.6	ug/Kg	☼	05/26/17 04:11	05/26/17 15:54	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	60		28 - 150	05/26/17 04:11	05/26/17 15:54	5
Tributyl phosphate	50		28 - 150	05/26/17 04:11	05/26/17 15:54	5
Triphenylphosphate	74		45 - 150	05/26/17 04:11	05/26/17 15:54	5
Triphenylphosphate	77		45 - 150	05/26/17 04:11	05/26/17 15:54	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	7.59	U	111	7.59	ug/Kg	☼	05/23/17 11:30	05/24/17 17:10	20
2,4,5-T	3.48	U	27.7	3.48	ug/Kg	☼	05/23/17 11:30	05/24/17 17:10	20
Silvex (2,4,5-TP)	2.91	U	27.7	2.91	ug/Kg	☼	05/23/17 11:30	05/24/17 17:10	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	78		19 - 122	05/23/17 11:30	05/24/17 17:10	20
2,4-Dichlorophenylacetic acid	78		19 - 122	05/23/17 11:30	05/24/17 17:10	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.215	U	0.649	0.215	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1
Arsenic	1.25	J	1.30	0.572	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1
Barium	166		26.0	6.97	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1
Cadmium	0.208	J	0.649	0.146	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1
Chromium	19.2		0.649	0.169	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1
Lead	6.72		1.30	0.426	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1
Selenium	0.514	U	1.30	0.514	mg/Kg	☼	05/25/17 17:21	05/30/17 17:24	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.331	B	0.0458	0.0103	mg/Kg	☼	05/26/17 11:05	05/28/17 11:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	28.0		0.1	0.1	%			05/22/17 14:03	1
Percent Solids	72.0		0.1	0.1	%			05/22/17 14:03	1

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
Matrix: Solid
Percent Solids: 70.4

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.122	U	1.15	0.122	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
alpha-BHC	0.339	U	1.15	0.339	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
beta-BHC	0.259	U	1.15	0.259	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
delta-BHC	0.411	U	1.15	0.411	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
gamma-BHC (Lindane)	0.238	U	1.15	0.238	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
alpha-Chlordane	0.256	J p	1.15	0.185	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
gamma-Chlordane	0.0900	U	1.15	0.0900	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
4,4'-DDD	0.210	J p	1.15	0.118	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
4,4'-DDE	3.34		1.15	0.367	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
4,4'-DDT	2.52		1.15	0.118	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Dieldrin	5.95		1.15	0.109	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Endosulfan I	0.0733	U	1.15	0.0733	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Endosulfan II	0.353	U	1.15	0.353	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Endosulfan sulfate	0.147	U	1.15	0.147	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Endrin	0.336	U	1.15	0.336	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Endrin aldehyde	0.339	U	1.15	0.339	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Endrin ketone	0.385	U	1.15	0.385	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Heptachlor	0.0996	U	1.15	0.0996	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Heptachlor epoxide	0.759	J	1.15	0.138	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Methoxychlor	0.335	U	1.15	0.335	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10
Toxaphene	38.0	U	46.1	38.0	ug/Kg	☼	05/26/17 04:12	05/26/17 20:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	48		32 - 114	05/26/17 04:12	05/26/17 20:36	10
Tetrachloro-m-xylene	56		32 - 114	05/26/17 04:12	05/26/17 20:36	10
DCB Decachlorobiphenyl (Surr)	66		26 - 143	05/26/17 04:12	05/26/17 20:36	10
DCB Decachlorobiphenyl (Surr)	62		26 - 143	05/26/17 04:12	05/26/17 20:36	10

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	32.2	U	92.5	32.2	ug/Kg	☼	05/26/17 04:11	05/26/17 16:27	5
Demeton, Total	40.2	U	185	40.2	ug/Kg	☼	05/26/17 04:11	05/26/17 16:27	5
Malathion	22.4	U	92.5	22.4	ug/Kg	☼	05/26/17 04:11	05/26/17 16:27	5
Methyl parathion	19.9	U	92.5	19.9	ug/Kg	☼	05/26/17 04:11	05/26/17 16:27	5
Parathion	18.8	U	92.5	18.8	ug/Kg	☼	05/26/17 04:11	05/26/17 16:27	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	44		28 - 150	05/26/17 04:11	05/26/17 16:27	5
Tributyl phosphate	36		28 - 150	05/26/17 04:11	05/26/17 16:27	5
Triphenylphosphate	54		45 - 150	05/26/17 04:11	05/26/17 16:27	5
Triphenylphosphate	56		45 - 150	05/26/17 04:11	05/26/17 16:27	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	7.75	U	113	7.75	ug/Kg	☼	05/23/17 11:30	05/24/17 17:34	20
2,4,5-T	3.55	U	28.3	3.55	ug/Kg	☼	05/23/17 11:30	05/24/17 17:34	20
Silvex (2,4,5-TP)	2.97	U	28.3	2.97	ug/Kg	☼	05/23/17 11:30	05/24/17 17:34	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	70		19 - 122	05/23/17 11:30	05/24/17 17:34	20
2,4-Dichlorophenylacetic acid	71		19 - 122	05/23/17 11:30	05/24/17 17:34	20

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.227	U	0.683	0.227	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1
Arsenic	1.25	J	1.37	0.602	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1
Barium	178		27.3	7.33	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1
Cadmium	0.206	J	0.683	0.153	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1
Chromium	18.9		0.683	0.177	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1
Lead	7.26		1.37	0.448	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1
Selenium	0.541	U	1.37	0.541	mg/Kg	☼	05/25/17 17:21	05/30/17 17:29	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.518	B	0.0469	0.0105	mg/Kg	☼	05/26/17 11:05	05/28/17 11:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	29.6		0.1	0.1	%			05/22/17 14:03	1
Percent Solids	70.4		0.1	0.1	%			05/22/17 14:03	1

Client Sample ID: HA-4

Date Collected: 05/18/17 14:18

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4

Matrix: Solid

Percent Solids: 57.9

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.150	U	1.42	0.150	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
alpha-BHC	0.418	U	1.42	0.418	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
beta-BHC	0.319	U	1.42	0.319	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
delta-BHC	0.506	U	1.42	0.506	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
gamma-BHC (Lindane)	0.293	U	1.42	0.293	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
alpha-Chlordane	0.276	J p	1.42	0.228	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
gamma-Chlordane	0.111	U	1.42	0.111	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
4,4'-DDD	0.145	U	1.42	0.145	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
4,4'-DDE	3.46		1.42	0.452	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
4,4'-DDT	1.27	J p	1.42	0.145	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Dieldrin	9.18		1.42	0.135	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Endosulfan I	0.0903	U	1.42	0.0903	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Endosulfan II	0.435	U	1.42	0.435	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Endosulfan sulfate	0.181	U	1.42	0.181	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Endrin	0.414	U	1.42	0.414	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Endrin aldehyde	0.418	U	1.42	0.418	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Endrin ketone	0.474	U	1.42	0.474	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Heptachlor	0.123	U	1.42	0.123	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Heptachlor epoxide	1.24	J	1.42	0.170	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Methoxychlor	0.412	U	1.42	0.412	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10
Toxaphene	46.7	U	56.8	46.7	ug/Kg	☼	05/26/17 04:12	05/26/17 20:52	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	38		32 - 114	05/26/17 04:12	05/26/17 20:52	10
Tetrachloro-m-xylene	47		32 - 114	05/26/17 04:12	05/26/17 20:52	10
DCB Decachlorobiphenyl (Surr)	58		26 - 143	05/26/17 04:12	05/26/17 20:52	10
DCB Decachlorobiphenyl (Surr)	51		26 - 143	05/26/17 04:12	05/26/17 20:52	10

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	38.6	U	111	38.6	ug/Kg	☼	05/26/17 04:11	05/26/17 17:01	5

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-4
Date Collected: 05/18/17 14:18
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4
Matrix: Solid
Percent Solids: 57.9

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Demeton, Total	48.3	U	222	48.3	ug/Kg	☼	05/26/17 04:11	05/26/17 17:01	5
Malathion	26.8	U	111	26.8	ug/Kg	☼	05/26/17 04:11	05/26/17 17:01	5
Methyl parathion	23.9	U	111	23.9	ug/Kg	☼	05/26/17 04:11	05/26/17 17:01	5
Parathion	22.5	U	111	22.5	ug/Kg	☼	05/26/17 04:11	05/26/17 17:01	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tributyl phosphate	71		28 - 150				05/26/17 04:11	05/26/17 17:01	5
Tributyl phosphate	58		28 - 150				05/26/17 04:11	05/26/17 17:01	5
Triphenylphosphate	83		45 - 150				05/26/17 04:11	05/26/17 17:01	5
Triphenylphosphate	89		45 - 150				05/26/17 04:11	05/26/17 17:01	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	9.40	U	137	9.40	ug/Kg	☼	05/23/17 11:30	05/24/17 17:59	20
2,4,5-T	4.31	U	34.3	4.31	ug/Kg	☼	05/23/17 11:30	05/24/17 17:59	20
Silvex (2,4,5-TP)	3.61	U	34.3	3.61	ug/Kg	☼	05/23/17 11:30	05/24/17 17:59	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	83		19 - 122				05/23/17 11:30	05/24/17 17:59	20
2,4-Dichlorophenylacetic acid	83		19 - 122				05/23/17 11:30	05/24/17 17:59	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.281	U	0.847	0.281	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1
Arsenic	1.22	J	1.69	0.747	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1
Barium	163		33.9	9.09	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1
Cadmium	0.266	J	0.847	0.190	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1
Chromium	27.6		0.847	0.220	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1
Lead	7.44		1.69	0.556	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1
Selenium	0.671	U	1.69	0.671	mg/Kg	☼	05/25/17 17:21	05/30/17 17:34	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.851	B	0.0552	0.0124	mg/Kg	☼	05/26/17 11:05	05/28/17 11:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	42.1		0.1	0.1	%			05/22/17 14:03	1
Percent Solids	57.9		0.1	0.1	%			05/22/17 14:03	1

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid
Percent Solids: 93.6

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0921	U	0.872	0.0921	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
alpha-BHC	0.257	U	0.872	0.257	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
beta-BHC	0.196	U	0.872	0.196	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
delta-BHC	0.311	U	0.872	0.311	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
gamma-BHC (Lindane)	0.180	U	0.872	0.180	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid
Percent Solids: 93.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	0.140	U	0.872	0.140	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
gamma-Chlordane	0.0681	U	0.872	0.0681	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
4,4'-DDD	0.0890	U	0.872	0.0890	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
4,4'-DDE	0.482	J	0.872	0.277	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
4,4'-DDT	0.0890	U	0.872	0.0890	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Dieldrin	1.49		0.872	0.0827	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Endosulfan I	0.0555	U	0.872	0.0555	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Endosulfan II	0.267	U	0.872	0.267	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Endosulfan sulfate	0.111	U	0.872	0.111	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Endrin	0.254	U	0.872	0.254	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Endrin aldehyde	0.257	U	0.872	0.257	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Endrin ketone	0.291	U	0.872	0.291	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Heptachlor	0.0754	U	0.872	0.0754	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Heptachlor epoxide	0.105	U	0.872	0.105	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Methoxychlor	0.253	U	0.872	0.253	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10
Toxaphene	28.7	U	34.9	28.7	ug/Kg	☼	05/26/17 04:12	05/26/17 21:07	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	49		32 - 114	05/26/17 04:12	05/26/17 21:07	10
Tetrachloro-m-xylene	57		32 - 114	05/26/17 04:12	05/26/17 21:07	10
DCB Decachlorobiphenyl (Surr)	67		26 - 143	05/26/17 04:12	05/26/17 21:07	10
DCB Decachlorobiphenyl (Surr)	67		26 - 143	05/26/17 04:12	05/26/17 21:07	10

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	4.81	U	13.8	4.81	ug/Kg	☼	05/26/17 04:11	05/26/17 17:34	1
Demeton, Total	6.01	U	27.6	6.01	ug/Kg	☼	05/26/17 04:11	05/26/17 17:34	1
Malathion	3.34	U	13.8	3.34	ug/Kg	☼	05/26/17 04:11	05/26/17 17:34	1
Methyl parathion	2.98	U	13.8	2.98	ug/Kg	☼	05/26/17 04:11	05/26/17 17:34	1
Parathion	2.80	U	13.8	2.80	ug/Kg	☼	05/26/17 04:11	05/26/17 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	68		28 - 150	05/26/17 04:11	05/26/17 17:34	1
Tributyl phosphate	56		28 - 150	05/26/17 04:11	05/26/17 17:34	1
Triphenylphosphate	78		45 - 150	05/26/17 04:11	05/26/17 17:34	1
Triphenylphosphate	84		45 - 150	05/26/17 04:11	05/26/17 17:34	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	5.83	U	85.3	5.83	ug/Kg	☼	05/23/17 11:30	05/24/17 18:23	20
2,4,5-T	2.67	U	21.3	2.67	ug/Kg	☼	05/23/17 11:30	05/24/17 18:23	20
Silvex (2,4,5-TP)	2.24	U	21.3	2.24	ug/Kg	☼	05/23/17 11:30	05/24/17 18:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	73		19 - 122	05/23/17 11:30	05/24/17 18:23	20
2,4-Dichlorophenylacetic acid	75		19 - 122	05/23/17 11:30	05/24/17 18:23	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.172	U	0.518	0.172	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1
Arsenic	0.840	J	1.04	0.457	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid
Percent Solids: 93.6

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	93.5		20.7	5.57	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1
Cadmium	0.116	U	0.518	0.116	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1
Chromium	13.6		0.518	0.135	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1
Lead	2.37		1.04	0.340	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1
Selenium	0.411	U	1.04	0.411	mg/Kg	☼	05/25/17 17:21	05/30/17 17:39	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0146	J B	0.0347	0.00776	mg/Kg	☼	05/26/17 11:05	05/28/17 11:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	6.4		0.1	0.1	%			05/22/17 14:03	1
Percent Solids	93.6		0.1	0.1	%			05/22/17 14:03	1

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
Matrix: Solid
Percent Solids: 92.7

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.0925	U F2	0.876	0.0925	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
alpha-BHC	0.258	U F2	0.876	0.258	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
beta-BHC	0.197	U F2	0.876	0.197	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
delta-BHC	0.312	U F1 F2	0.876	0.312	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
gamma-BHC (Lindane)	0.181	U F2	0.876	0.181	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
alpha-Chlordane	0.141	U F2	0.876	0.141	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
gamma-Chlordane	0.0683	U F2	0.876	0.0683	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
4,4'-DDD	0.0893	U F2	0.876	0.0893	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
4,4'-DDE	0.517	J F2	0.876	0.279	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
4,4'-DDT	0.0893	U	0.876	0.0893	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Dieldrin	1.69		0.876	0.0830	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Endosulfan I	0.0557	U F2	0.876	0.0557	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Endosulfan II	0.268	U	0.876	0.268	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Endosulfan sulfate	0.111	U	0.876	0.111	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Endrin	0.255	U F2	0.876	0.255	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Endrin aldehyde	0.258	U F2	0.876	0.258	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Endrin ketone	0.292	U F2	0.876	0.292	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Heptachlor	0.0757	U F2	0.876	0.0757	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Heptachlor epoxide	0.105	U F2	0.876	0.105	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Methoxychlor	0.254	U F2	0.876	0.254	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10
Toxaphene	28.8	U	35.0	28.8	ug/Kg	☼	05/26/17 04:12	05/26/17 21:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	47		32 - 114	05/26/17 04:12	05/26/17 21:23	10
Tetrachloro-m-xylene	56		32 - 114	05/26/17 04:12	05/26/17 21:23	10
DCB Decachlorobiphenyl (Surr)	72		26 - 143	05/26/17 04:12	05/26/17 21:23	10
DCB Decachlorobiphenyl (Surr)	70		26 - 143	05/26/17 04:12	05/26/17 21:23	10

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
Matrix: Solid
Percent Solids: 92.7

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	4.92	U	14.1	4.92	ug/Kg	☼	05/26/17 04:11	05/26/17 18:07	1
Demeton, Total	6.15	U	28.3	6.15	ug/Kg	☼	05/26/17 04:11	05/26/17 18:07	1
Malathion	3.42	U	14.1	3.42	ug/Kg	☼	05/26/17 04:11	05/26/17 18:07	1
Methyl parathion	3.05	U	14.1	3.05	ug/Kg	☼	05/26/17 04:11	05/26/17 18:07	1
Parathion	2.87	U	14.1	2.87	ug/Kg	☼	05/26/17 04:11	05/26/17 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	71		28 - 150	05/26/17 04:11	05/26/17 18:07	1
Tributyl phosphate	59		28 - 150	05/26/17 04:11	05/26/17 18:07	1
Triphenylphosphate	84		45 - 150	05/26/17 04:11	05/26/17 18:07	1
Triphenylphosphate	89		45 - 150	05/26/17 04:11	05/26/17 18:07	1

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	5.88	U	86.0	5.88	ug/Kg	☼	05/23/17 11:30	05/24/17 18:48	20
2,4,5-T	2.70	U	21.5	2.70	ug/Kg	☼	05/23/17 11:30	05/24/17 18:48	20
Silvex (2,4,5-TP)	2.26	U	21.5	2.26	ug/Kg	☼	05/23/17 11:30	05/24/17 18:48	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	86		19 - 122	05/23/17 11:30	05/24/17 18:48	20
2,4-Dichlorophenylacetic acid	88		19 - 122	05/23/17 11:30	05/24/17 18:48	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.163	U	0.491	0.163	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1
Arsenic	1.52		0.981	0.433	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1
Barium	96.1		19.6	5.27	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1
Cadmium	0.110	U	0.491	0.110	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1
Chromium	15.2		0.491	0.127	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1
Lead	2.53		0.981	0.322	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1
Selenium	0.389	U	0.981	0.389	mg/Kg	☼	05/25/17 17:21	05/30/17 17:45	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0199	J B	0.0339	0.00759	mg/Kg	☼	05/26/17 11:05	05/28/17 11:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	7.3		0.1	0.1	%			05/22/17 17:08	1
Percent Solids	92.7		0.1	0.1	%			05/22/17 17:08	1

Client Sample ID: HA-1-DUP

Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-7
Matrix: Solid
Percent Solids: 43.7

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.199	U	1.88	0.199	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
alpha-BHC	0.553	U	1.88	0.553	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
beta-BHC	0.422	U	1.88	0.422	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
delta-BHC	0.671	U	1.88	0.671	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-1-DUP

Lab Sample ID: 180-66504-7

Date Collected: 05/18/17 13:42

Matrix: Solid

Date Received: 05/19/17 09:10

Percent Solids: 43.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.389	U	1.88	0.389	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
alpha-Chlordane	0.303	U	1.88	0.303	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
gamma-Chlordane	0.147	U	1.88	0.147	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
4,4'-DDD	0.192	U	1.88	0.192	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
4,4'-DDE	3.43		1.88	0.599	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
4,4'-DDT	0.192	U	1.88	0.192	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Dieldrin	3.28		1.88	0.178	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Endosulfan I	0.120	U	1.88	0.120	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Endosulfan II	0.576	U	1.88	0.576	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Endosulfan sulfate	0.239	U	1.88	0.239	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Endrin	0.549	U	1.88	0.549	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Endrin aldehyde	0.553	U	1.88	0.553	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Endrin ketone	0.628	U	1.88	0.628	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Heptachlor	0.163	U	1.88	0.163	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Heptachlor epoxide	0.566	J	1.88	0.226	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Methoxychlor	0.547	U	1.88	0.547	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10
Toxaphene	62.0	U	75.3	62.0	ug/Kg	☼	05/26/17 04:12	05/26/17 22:09	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	45		32 - 114	05/26/17 04:12	05/26/17 22:09	10
Tetrachloro-m-xylene	54		32 - 114	05/26/17 04:12	05/26/17 22:09	10
DCB Decachlorobiphenyl (Surr)	61		26 - 143	05/26/17 04:12	05/26/17 22:09	10
DCB Decachlorobiphenyl (Surr)	56		26 - 143	05/26/17 04:12	05/26/17 22:09	10

Method: 8141A - Organophosphorous Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Azinphos-methyl	52.6	U	151	52.6	ug/Kg	☼	05/26/17 04:11	05/26/17 18:40	5
Demeton, Total	65.7	U	302	65.7	ug/Kg	☼	05/26/17 04:11	05/26/17 18:40	5
Malathion	36.5	U	151	36.5	ug/Kg	☼	05/26/17 04:11	05/26/17 18:40	5
Methyl parathion	32.5	U	151	32.5	ug/Kg	☼	05/26/17 04:11	05/26/17 18:40	5
Parathion	30.6	U	151	30.6	ug/Kg	☼	05/26/17 04:11	05/26/17 18:40	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tributyl phosphate	68		28 - 150	05/26/17 04:11	05/26/17 18:40	5
Tributyl phosphate	55		28 - 150	05/26/17 04:11	05/26/17 18:40	5
Triphenylphosphate	81		45 - 150	05/26/17 04:11	05/26/17 18:40	5
Triphenylphosphate	85		45 - 150	05/26/17 04:11	05/26/17 18:40	5

Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	12.5	U	183	12.5	ug/Kg	☼	05/23/17 11:30	05/24/17 19:12	20
2,4,5-T	5.74	U	45.8	5.74	ug/Kg	☼	05/23/17 11:30	05/24/17 19:12	20
Silvex (2,4,5-TP)	4.81	U	45.8	4.81	ug/Kg	☼	05/23/17 11:30	05/24/17 19:12	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	84		19 - 122	05/23/17 11:30	05/24/17 19:12	20
2,4-Dichlorophenylacetic acid	86		19 - 122	05/23/17 11:30	05/24/17 19:12	20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.345	U	1.04	0.345	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
 Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Client Sample ID: HA-1-DUP

Lab Sample ID: 180-66504-7

Date Collected: 05/18/17 13:42

Matrix: Solid

Date Received: 05/19/17 09:10

Percent Solids: 43.7

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.918	U	2.08	0.918	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1
Barium	198		41.6	11.2	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1
Cadmium	0.291	J	1.04	0.234	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1
Chromium	19.1		1.04	0.270	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1
Lead	6.76		2.08	0.683	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1
Selenium	0.824	U	2.08	0.824	mg/Kg	☼	05/25/17 17:21	05/30/17 17:50	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.257	B	0.0731	0.0164	mg/Kg	☼	05/26/17 11:05	05/28/17 11:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	56.3		0.1	0.1	%			05/22/17 17:08	1
Percent Solids	43.7		0.1	0.1	%			05/22/17 17:08	1

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 180-212361/1-A

Matrix: Solid

Analysis Batch: 212418

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 212361

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	0.00880	U	0.0833	0.00880	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
alpha-BHC	0.0245	U	0.0833	0.0245	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
beta-BHC	0.0187	U	0.0833	0.0187	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
delta-BHC	0.0297	U	0.0833	0.0297	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
gamma-BHC (Lindane)	0.0172	U	0.0833	0.0172	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
alpha-Chlordane	0.0134	U	0.0833	0.0134	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
gamma-Chlordane	0.00650	U	0.0833	0.00650	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
4,4'-DDD	0.00850	U	0.0833	0.00850	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
4,4'-DDE	0.0265	U	0.0833	0.0265	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
4,4'-DDT	0.00850	U	0.0833	0.00850	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Dieldrin	0.00790	U	0.0833	0.00790	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Endosulfan I	0.00530	U	0.0833	0.00530	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Endosulfan II	0.0255	U	0.0833	0.0255	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Endosulfan sulfate	0.0106	U	0.0833	0.0106	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Endrin	0.0243	U	0.0833	0.0243	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Endrin aldehyde	0.0245	U	0.0833	0.0245	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Endrin ketone	0.0278	U	0.0833	0.0278	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Heptachlor	0.00720	U	0.0833	0.00720	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Heptachlor epoxide	0.0100	U	0.0833	0.0100	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Methoxychlor	0.0242	U	0.0833	0.0242	ug/Kg		05/26/17 04:12	05/26/17 19:34	1
Toxaphene	2.74	U	3.33	2.74	ug/Kg		05/26/17 04:12	05/26/17 19:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		32 - 114	05/26/17 04:12	05/26/17 19:34	1
Tetrachloro-m-xylene	89		32 - 114	05/26/17 04:12	05/26/17 19:34	1
DCB Decachlorobiphenyl (Surr)	87		26 - 143	05/26/17 04:12	05/26/17 19:34	1
DCB Decachlorobiphenyl (Surr)	87		26 - 143	05/26/17 04:12	05/26/17 19:34	1

Lab Sample ID: LCS 180-212361/2-A

Matrix: Solid

Analysis Batch: 212418

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 212361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	1.67	1.152		ug/Kg		69	42 - 114
alpha-BHC	1.67	1.121		ug/Kg		67	44 - 100
beta-BHC	1.67	1.193		ug/Kg		72	32 - 110
delta-BHC	1.67	0.4663		ug/Kg		28	20 - 106
gamma-BHC (Lindane)	1.67	1.172		ug/Kg		70	44 - 100
alpha-Chlordane	1.67	1.160		ug/Kg		70	38 - 112
gamma-Chlordane	1.67	1.217		ug/Kg		73	37 - 113
4,4'-DDD	1.67	1.329		ug/Kg		80	41 - 111
4,4'-DDE	1.67	1.391		ug/Kg		83	39 - 119
4,4'-DDT	1.67	1.137		ug/Kg		68	25 - 112
Dieldrin	1.67	1.385		ug/Kg		83	38 - 116
Endosulfan I	1.67	1.221		ug/Kg		73	39 - 114
Endosulfan II	1.67	1.328		ug/Kg		80	37 - 108
Endosulfan sulfate	1.67	1.094		ug/Kg		66	29 - 100
Endrin	1.67	1.371		ug/Kg		82	38 - 114

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

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

Lab Sample ID: LCS 180-212361/2-A
Matrix: Solid
Analysis Batch: 212418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Endrin aldehyde	1.67	1.213		ug/Kg		73	25 - 105
Endrin ketone	1.67	1.280		ug/Kg		77	31 - 113
Heptachlor	1.67	1.236		ug/Kg		74	47 - 114
Heptachlor epoxide	1.67	1.222		ug/Kg		73	40 - 115
Methoxychlor	1.67	1.297		ug/Kg		78	26 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		32 - 114
Tetrachloro-m-xylene	83		32 - 114
DCB Decachlorobiphenyl (Surr)	82		26 - 143
DCB Decachlorobiphenyl (Surr)	81		26 - 143

Lab Sample ID: 180-66504-6 MS
Matrix: Solid
Analysis Batch: 212418

Client Sample ID: HA-6
Prep Type: Total/NA
Prep Batch: 212361

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Aldrin	0.0925	U F2	1.74	0.8807		ug/Kg	☼	51	42 - 114
alpha-BHC	0.258	U F2	1.74	0.8405	J	ug/Kg	☼	48	44 - 100
beta-BHC	0.197	U F2	1.74	0.9066		ug/Kg	☼	52	32 - 110
delta-BHC	0.312	U F1 F2	1.74	0.3230	J F1	ug/Kg	☼	19	20 - 106
gamma-BHC (Lindane)	0.181	U F2	1.74	0.8396	J	ug/Kg	☼	48	44 - 100
alpha-Chlordane	0.141	U F2	1.74	0.8657	J	ug/Kg	☼	50	38 - 112
gamma-Chlordane	0.0683	U F2	1.74	0.8313	J	ug/Kg	☼	48	37 - 113
4,4'-DDD	0.0893	U F2	1.74	1.257		ug/Kg	☼	72	41 - 111
4,4'-DDE	0.517	J F2	1.74	1.725		ug/Kg	☼	69	39 - 119
4,4'-DDT	0.0893	U	1.74	1.093		ug/Kg	☼	63	25 - 112
Dieldrin	1.69		1.74	2.866		ug/Kg	☼	68	38 - 116
Endosulfan I	0.0557	U F2	1.74	0.8660	J	ug/Kg	☼	50	39 - 114
Endosulfan II	0.268	U	1.74	1.043		ug/Kg	☼	60	37 - 108
Endosulfan sulfate	0.111	U	1.74	0.8959		ug/Kg	☼	51	29 - 100
Endrin	0.255	U F2	1.74	1.182		ug/Kg	☼	68	38 - 114
Endrin aldehyde	0.258	U F2	1.74	1.048		ug/Kg	☼	60	25 - 105
Endrin ketone	0.292	U F2	1.74	1.123		ug/Kg	☼	65	31 - 113
Heptachlor	0.0757	U F2	1.74	0.9209		ug/Kg	☼	53	47 - 114
Heptachlor epoxide	0.105	U F2	1.74	0.9367		ug/Kg	☼	54	40 - 115
Methoxychlor	0.254	U F2	1.74	1.046		ug/Kg	☼	60	26 - 119

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	53		32 - 114
Tetrachloro-m-xylene	57		32 - 114
DCB Decachlorobiphenyl (Surr)	73		26 - 143
DCB Decachlorobiphenyl (Surr)	68		26 - 143

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

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

Lab Sample ID: 180-66504-6 MSD
Matrix: Solid
Analysis Batch: 212418

Client Sample ID: HA-6
Prep Type: Total/NA
Prep Batch: 212361

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	Limits	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
Aldrin	0.0925	U F2	1.79	1.131	F2	ug/Kg	☼	63	42 - 114	25	20
alpha-BHC	0.258	U F2	1.79	1.128	F2	ug/Kg	☼	63	44 - 100	29	20
beta-BHC	0.197	U F2	1.79	1.165	F2	ug/Kg	☼	65	32 - 110	25	20
delta-BHC	0.312	U F1 F2	1.79	0.4146	J F2	ug/Kg	☼	23	20 - 106	25	20
gamma-BHC (Lindane)	0.181	U F2	1.79	1.081	F2	ug/Kg	☼	60	44 - 100	25	20
alpha-Chlordane	0.141	U F2	1.79	1.090	F2	ug/Kg	☼	61	38 - 112	23	20
gamma-Chlordane	0.0683	U F2	1.79	1.088	F2	ug/Kg	☼	61	37 - 113	27	24
4,4'-DDD	0.0893	U F2	1.79	1.576	F2	ug/Kg	☼	88	41 - 111	23	20
4,4'-DDE	0.517	J F2	1.79	2.165	F2	ug/Kg	☼	92	39 - 119	23	20
4,4'-DDT	0.0893	U	1.79	1.330		ug/Kg	☼	74	25 - 112	20	37
Dieldrin	1.69		1.79	3.517		ug/Kg	☼	102	38 - 116	20	20
Endosulfan I	0.0557	U F2	1.79	1.142	F2	ug/Kg	☼	64	39 - 114	28	23
Endosulfan II	0.268	U	1.79	1.275		ug/Kg	☼	71	37 - 108	20	33
Endosulfan sulfate	0.111	U	1.79	1.117		ug/Kg	☼	63	29 - 100	22	26
Endrin	0.255	U F2	1.79	1.522	F2	ug/Kg	☼	85	38 - 114	25	20
Endrin aldehyde	0.258	U F2	1.79	1.366	F2	ug/Kg	☼	76	25 - 105	26	20
Endrin ketone	0.292	U F2	1.79	1.407	F2	ug/Kg	☼	79	31 - 113	22	20
Heptachlor	0.0757	U F2	1.79	1.207	F2	ug/Kg	☼	68	47 - 114	27	20
Heptachlor epoxide	0.105	U F2	1.79	1.188	F2	ug/Kg	☼	67	40 - 115	24	20
Methoxychlor	0.254	U F2	1.79	1.404	F2	ug/Kg	☼	79	26 - 119	29	26

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	59		32 - 114
Tetrachloro-m-xylene	63		32 - 114
DCB Decachlorobiphenyl (Surr)	79		26 - 143
DCB Decachlorobiphenyl (Surr)	76		26 - 143

Method: 8141A - Organophosphorous Pesticides (GC)

Lab Sample ID: MB 180-212360/1-A
Matrix: Solid
Analysis Batch: 212416

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212360

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Azinphos-methyl	4.59	U	13.2	4.59	ug/Kg		05/26/17 04:11	05/26/17 13:42	1
Demeton, Total	5.74	U	26.4	5.74	ug/Kg		05/26/17 04:11	05/26/17 13:42	1
Malathion	3.19	U	13.2	3.19	ug/Kg		05/26/17 04:11	05/26/17 13:42	1
Methyl parathion	2.84	U	13.2	2.84	ug/Kg		05/26/17 04:11	05/26/17 13:42	1
Parathion	2.68	U	13.2	2.68	ug/Kg		05/26/17 04:11	05/26/17 13:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tributyl phosphate	51		28 - 150	05/26/17 04:11	05/26/17 13:42	1
Tributyl phosphate	41		28 - 150	05/26/17 04:11	05/26/17 13:42	1
Triphenylphosphate	83		45 - 150	05/26/17 04:11	05/26/17 13:42	1
Triphenylphosphate	90		45 - 150	05/26/17 04:11	05/26/17 13:42	1

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Method: 8141A - Organophosphorous Pesticides (GC) (Continued)

Lab Sample ID: LCS 180-212360/2-A
Matrix: Solid
Analysis Batch: 212416

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Azinphos-methyl	133	128.9		ug/Kg		97	55 - 147
Demeton, Total	133	97.00		ug/Kg		73	27 - 150
Malathion	133	112.1		ug/Kg		84	59 - 150
Methyl parathion	133	122.1		ug/Kg		92	66 - 141
Parathion	133	116.8		ug/Kg		88	54 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tributyl phosphate	95		28 - 150
Tributyl phosphate	130		28 - 150
Triphenylphosphate	109		45 - 150
Triphenylphosphate	116		45 - 150

Lab Sample ID: 180-66504-1 MS
Matrix: Solid
Analysis Batch: 212416

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 212360

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Azinphos-methyl	62.5	U F2 F1	356	278.7		ug/Kg	☼	78	55 - 147
Demeton, Total	78.2	U F2	356	217.2	J	ug/Kg	☼	61	27 - 150
Malathion	43.5	U F2 F1	356	236.8		ug/Kg	☼	66	59 - 150
Methyl parathion	38.7	U F2 F1	356	251.1		ug/Kg	☼	71	66 - 141
Parathion	36.5	U F2 F1	356	161.8	J p F1	ug/Kg	☼	45	54 - 150

Surrogate	MS %Recovery	MS Qualifier	Limits
Tributyl phosphate	82		28 - 150
Tributyl phosphate	111		28 - 150
Triphenylphosphate	93		45 - 150
Triphenylphosphate	100		45 - 150

Lab Sample ID: 180-66504-1 MSD
Matrix: Solid
Analysis Batch: 212416

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 212360

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Azinphos-methyl	62.5	U F2 F1	361	196.1	F1 F2	ug/Kg	☼	54	55 - 147	35	17
Demeton, Total	78.2	U F2	361	156.0	J F2	ug/Kg	☼	43	27 - 150	33	15
Malathion	43.5	U F2 F1	361	180.2	F1 F2	ug/Kg	☼	50	59 - 150	27	15
Methyl parathion	38.7	U F2 F1	361	186.3	F1 F2	ug/Kg	☼	52	66 - 141	30	15
Parathion	36.5	U F2 F1	361	141.4	J F1	ug/Kg	☼	39	54 - 150	13	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tributyl phosphate	51	p	28 - 150
Tributyl phosphate	77		28 - 150
Triphenylphosphate	57		45 - 150
Triphenylphosphate	61		45 - 150

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 180-211995/1-A
Matrix: Solid
Analysis Batch: 212150

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 211995

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4-D	5.47	U	80.0	5.47	ug/Kg		05/23/17 11:30	05/24/17 16:20	20
2,4,5-T	2.51	U	20.0	2.51	ug/Kg		05/23/17 11:30	05/24/17 16:20	20
Silvex (2,4,5-TP)	2.10	U	20.0	2.10	ug/Kg		05/23/17 11:30	05/24/17 16:20	20

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4-Dichlorophenylacetic acid	79		19 - 122	05/23/17 11:30	05/24/17 16:20	20
2,4-Dichlorophenylacetic acid	80		19 - 122	05/23/17 11:30	05/24/17 16:20	20

Lab Sample ID: LCS 180-211995/2-A
Matrix: Solid
Analysis Batch: 212150

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 211995

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
2,4-D	400	280.2		ug/Kg		70	10 - 103
2,4,5-T	100	66.98		ug/Kg		67	15 - 114
Silvex (2,4,5-TP)	100	80.92		ug/Kg		81	27 - 126

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	74		19 - 122
2,4-Dichlorophenylacetic acid	74		19 - 122

Lab Sample ID: LCSD 180-211995/3-A
Matrix: Solid
Analysis Batch: 212150

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 211995

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier						
2,4-D	400	321.4		ug/Kg		80	10 - 103	14	40
2,4,5-T	100	72.98		ug/Kg		73	15 - 114	9	40
Silvex (2,4,5-TP)	100	90.88		ug/Kg		91	27 - 126	12	31

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4-Dichlorophenylacetic acid	92		19 - 122
2,4-Dichlorophenylacetic acid	90		19 - 122

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 180-212335/1-A
Matrix: Solid
Analysis Batch: 212728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212335

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Silver	0.166	U	0.500	0.166	mg/Kg		05/25/17 17:21	05/30/17 16:42	1
Arsenic	0.441	U	1.00	0.441	mg/Kg		05/25/17 17:21	05/30/17 16:42	1
Barium	5.37	U	20.0	5.37	mg/Kg		05/25/17 17:21	05/30/17 16:42	1
Cadmium	0.112	U	0.500	0.112	mg/Kg		05/25/17 17:21	05/30/17 16:42	1
Chromium	0.130	U	0.500	0.130	mg/Kg		05/25/17 17:21	05/30/17 16:42	1
Lead	0.328	U	1.00	0.328	mg/Kg		05/25/17 17:21	05/30/17 16:42	1

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 180-212335/1-A
Matrix: Solid
Analysis Batch: 212728

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	0.396	U	1.00	0.396	mg/Kg		05/25/17 17:21	05/30/17 16:42	1

Lab Sample ID: LCS 180-212335/2-A
Matrix: Solid
Analysis Batch: 212728

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Silver	5.00	4.931		mg/Kg		99	80 - 120
Arsenic	50.0	49.79		mg/Kg		100	80 - 120
Barium	200	202.2		mg/Kg		101	80 - 120
Cadmium	5.00	4.804		mg/Kg		96	80 - 120
Chromium	20.0	19.50		mg/Kg		97	80 - 120
Lead	50.0	47.79		mg/Kg		96	80 - 120
Selenium	50.0	49.38		mg/Kg		99	80 - 120

Lab Sample ID: 180-66504-1 MS
Matrix: Solid
Analysis Batch: 212728

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 212335

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Silver	0.451	U	13.6	12.92		mg/Kg	☼	95	75 - 125
Arsenic	1.20	U	136	130.1		mg/Kg	☼	96	75 - 125
Barium	187		543	746.8		mg/Kg	☼	103	75 - 125
Cadmium	0.557	J	13.6	12.32		mg/Kg	☼	87	75 - 125
Chromium	37.0		54.3	88.76		mg/Kg	☼	95	75 - 125
Lead	9.36		136	134.6		mg/Kg	☼	92	75 - 125
Selenium	1.08	U	136	129.5		mg/Kg	☼	95	75 - 125

Lab Sample ID: 180-66504-1 MSD
Matrix: Solid
Analysis Batch: 212728

Client Sample ID: HA-1
Prep Type: Total/NA
Prep Batch: 212335

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Silver	0.451	U	13.7	12.98		mg/Kg	☼	95	75 - 125	0	20
Arsenic	1.20	U	137	129.5		mg/Kg	☼	94	75 - 125	0	20
Barium	187		548	711.4		mg/Kg	☼	96	75 - 125	5	20
Cadmium	0.557	J	13.7	12.31		mg/Kg	☼	86	75 - 125	0	20
Chromium	37.0		54.8	87.46		mg/Kg	☼	92	75 - 125	1	20
Lead	9.36		137	133.3		mg/Kg	☼	90	75 - 125	1	20
Selenium	1.08	U	137	128.3		mg/Kg	☼	94	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 180-212470/1-A
Matrix: Solid
Analysis Batch: 212591

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 212470

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.02007	J	0.0330	0.00739	mg/Kg		05/26/17 11:05	05/28/17 11:23	1

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Lab Sample ID: LCS 180-212470/2-A
Matrix: Solid
Analysis Batch: 212591

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 212470
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.417	0.4406		mg/Kg		106	80 - 120

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Association Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

GC Semi VOA

Prep Batch: 211995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	8151A	
180-66504-2	HA-2	Total/NA	Solid	8151A	
180-66504-3	HA-3	Total/NA	Solid	8151A	
180-66504-4	HA-4	Total/NA	Solid	8151A	
180-66504-5	HA-5	Total/NA	Solid	8151A	
180-66504-6	HA-6	Total/NA	Solid	8151A	
180-66504-7	HA-1-DUP	Total/NA	Solid	8151A	
MB 180-211995/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 180-211995/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 180-211995/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	

Analysis Batch: 212150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	8151A	211995
180-66504-2	HA-2	Total/NA	Solid	8151A	211995
180-66504-3	HA-3	Total/NA	Solid	8151A	211995
180-66504-4	HA-4	Total/NA	Solid	8151A	211995
180-66504-5	HA-5	Total/NA	Solid	8151A	211995
180-66504-6	HA-6	Total/NA	Solid	8151A	211995
180-66504-7	HA-1-DUP	Total/NA	Solid	8151A	211995
MB 180-211995/1-A	Method Blank	Total/NA	Solid	8151A	211995
LCS 180-211995/2-A	Lab Control Sample	Total/NA	Solid	8151A	211995
LCSD 180-211995/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	211995

Prep Batch: 212360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	3541	
180-66504-2	HA-2	Total/NA	Solid	3541	
180-66504-3	HA-3	Total/NA	Solid	3541	
180-66504-4	HA-4	Total/NA	Solid	3541	
180-66504-5	HA-5	Total/NA	Solid	3541	
180-66504-6	HA-6	Total/NA	Solid	3541	
180-66504-7	HA-1-DUP	Total/NA	Solid	3541	
MB 180-212360/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212360/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-66504-1 MS	HA-1	Total/NA	Solid	3541	
180-66504-1 MSD	HA-1	Total/NA	Solid	3541	

Prep Batch: 212361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	3541	
180-66504-2	HA-2	Total/NA	Solid	3541	
180-66504-3	HA-3	Total/NA	Solid	3541	
180-66504-4	HA-4	Total/NA	Solid	3541	
180-66504-5	HA-5	Total/NA	Solid	3541	
180-66504-6	HA-6	Total/NA	Solid	3541	
180-66504-7	HA-1-DUP	Total/NA	Solid	3541	
MB 180-212361/1-A	Method Blank	Total/NA	Solid	3541	
LCS 180-212361/2-A	Lab Control Sample	Total/NA	Solid	3541	
180-66504-6 MS	HA-6	Total/NA	Solid	3541	
180-66504-6 MSD	HA-6	Total/NA	Solid	3541	

TestAmerica Pittsburgh

QC Association Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Analysis Batch: 212416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	8141A	212360
180-66504-2	HA-2	Total/NA	Solid	8141A	212360
180-66504-3	HA-3	Total/NA	Solid	8141A	212360
180-66504-4	HA-4	Total/NA	Solid	8141A	212360
180-66504-5	HA-5	Total/NA	Solid	8141A	212360
180-66504-6	HA-6	Total/NA	Solid	8141A	212360
180-66504-7	HA-1-DUP	Total/NA	Solid	8141A	212360
MB 180-212360/1-A	Method Blank	Total/NA	Solid	8141A	212360
LCS 180-212360/2-A	Lab Control Sample	Total/NA	Solid	8141A	212360
180-66504-1 MS	HA-1	Total/NA	Solid	8141A	212360
180-66504-1 MSD	HA-1	Total/NA	Solid	8141A	212360

Analysis Batch: 212418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	8081A	212361
180-66504-2	HA-2	Total/NA	Solid	8081A	212361
180-66504-3	HA-3	Total/NA	Solid	8081A	212361
180-66504-4	HA-4	Total/NA	Solid	8081A	212361
180-66504-5	HA-5	Total/NA	Solid	8081A	212361
180-66504-6	HA-6	Total/NA	Solid	8081A	212361
180-66504-7	HA-1-DUP	Total/NA	Solid	8081A	212361
MB 180-212361/1-A	Method Blank	Total/NA	Solid	8081A	212361
LCS 180-212361/2-A	Lab Control Sample	Total/NA	Solid	8081A	212361
180-66504-6 MS	HA-6	Total/NA	Solid	8081A	212361
180-66504-6 MSD	HA-6	Total/NA	Solid	8081A	212361

Metals

Prep Batch: 212335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	3050B	
180-66504-2	HA-2	Total/NA	Solid	3050B	
180-66504-3	HA-3	Total/NA	Solid	3050B	
180-66504-4	HA-4	Total/NA	Solid	3050B	
180-66504-5	HA-5	Total/NA	Solid	3050B	
180-66504-6	HA-6	Total/NA	Solid	3050B	
180-66504-7	HA-1-DUP	Total/NA	Solid	3050B	
MB 180-212335/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 180-212335/2-A	Lab Control Sample	Total/NA	Solid	3050B	
180-66504-1 MS	HA-1	Total/NA	Solid	3050B	
180-66504-1 MSD	HA-1	Total/NA	Solid	3050B	

Prep Batch: 212470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	7471A	
180-66504-2	HA-2	Total/NA	Solid	7471A	
180-66504-3	HA-3	Total/NA	Solid	7471A	
180-66504-4	HA-4	Total/NA	Solid	7471A	
180-66504-5	HA-5	Total/NA	Solid	7471A	
180-66504-6	HA-6	Total/NA	Solid	7471A	
180-66504-7	HA-1-DUP	Total/NA	Solid	7471A	
MB 180-212470/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 180-212470/2-A	Lab Control Sample	Total/NA	Solid	7471A	

TestAmerica Pittsburgh

QC Association Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-1

Analysis Batch: 212591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	7471A	212470
180-66504-2	HA-2	Total/NA	Solid	7471A	212470
180-66504-3	HA-3	Total/NA	Solid	7471A	212470
180-66504-4	HA-4	Total/NA	Solid	7471A	212470
180-66504-5	HA-5	Total/NA	Solid	7471A	212470
180-66504-6	HA-6	Total/NA	Solid	7471A	212470
180-66504-7	HA-1-DUP	Total/NA	Solid	7471A	212470
MB 180-212470/1-A	Method Blank	Total/NA	Solid	7471A	212470
LCS 180-212470/2-A	Lab Control Sample	Total/NA	Solid	7471A	212470

Analysis Batch: 212728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	6010B	212335
180-66504-2	HA-2	Total/NA	Solid	6010B	212335
180-66504-3	HA-3	Total/NA	Solid	6010B	212335
180-66504-4	HA-4	Total/NA	Solid	6010B	212335
180-66504-5	HA-5	Total/NA	Solid	6010B	212335
180-66504-6	HA-6	Total/NA	Solid	6010B	212335
180-66504-7	HA-1-DUP	Total/NA	Solid	6010B	212335
MB 180-212335/1-A	Method Blank	Total/NA	Solid	6010B	212335
LCS 180-212335/2-A	Lab Control Sample	Total/NA	Solid	6010B	212335
180-66504-1 MS	HA-1	Total/NA	Solid	6010B	212335
180-66504-1 MSD	HA-1	Total/NA	Solid	6010B	212335

General Chemistry

Analysis Batch: 211889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-2	HA-2	Total/NA	Solid	2540G	
180-66504-3	HA-3	Total/NA	Solid	2540G	
180-66504-4	HA-4	Total/NA	Solid	2540G	
180-66504-5	HA-5	Total/NA	Solid	2540G	

Analysis Batch: 211899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	2540G	
180-66504-6	HA-6	Total/NA	Solid	2540G	
180-66504-7	HA-1-DUP	Total/NA	Solid	2540G	

Chain of Custody Record



Client Information
 Client Contact: Savannah Vogel
 Phone: 805 704 4034
 Company: AECOM, Inc.
 Address: 625 West Ridge Pike Suite E-100
 City: Conshohocken
 State, Zip: PA, 19428
 Phone: 610-832-6261(Tel)
 Email: crystal.may@aecom.com
 Project Name: Ontario, California Soil Samples
 Site: 18017499
 SOW#: 18017499

Sampler: Savannah Vogel
Lab PM: Colussy, Jill L
E-Mail: jill.colussy@testamericainc.com
Phone: 805 704 4034

180-66504 Chain of Custody
 3-8216.1
 Page 1 of 1
 Job #

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, BT=Tissue, A=Air)	Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	Special Instructions/Note:
					Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)		
HA-1	05/18/17	1342	G	Solid	X	X	X	X		
HA-2	05/18/17	1355	G	Solid	X	X	X	X		
HA-3	05/18/17	1405	G	Solid	X	X	X	X		
HA-4	05/18/17	1418	G	Solid	X	X	X	X		
HA-5	05/18/17	1430	G	Solid	X	X	X	X		
HA-6	05/18/17	1438	G	Solid	X	X	X	X		
HA-1 QUD	05/18/17	1342	G	Solid	X	X	X	X		

Analysis Requested

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

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Special Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: S.O. [Signature]
 Date/Time: 05/18/17
 Company: AECOM
 Relinquished by: [Signature]
 Date/Time: [Blank]
 Relinquished by: [Blank]
 Date/Time: [Blank]

Received by: [Signature]
 Date/Time: 5-19-17
 Company: [Blank]
 Received by: [Signature]
 Date/Time: 9/10
 Company: [Blank]
 Received by: [Blank]
 Date/Time: [Blank]
 Company: [Blank]

Cooler Temperature(s) °C and Other Remarks:



Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 180-66504-1

Login Number: 66504

List Number: 1

Creator: Watson, Debbie

List Source: TestAmerica Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pittsburgh

301 Alpha Drive

RIDC Park

Pittsburgh, PA 15238

Tel: (412)963-7058

TestAmerica Job ID: 180-66504-2

Client Project/Site: Ontario, California Soil Samples

For:

AECOM, Inc.

625 West Ridge Pike

Suite E-100

Conshohocken, Pennsylvania 19428

Attn: Crystal May



Authorized for release by:

6/9/2017 12:31:09 PM

Jill Colussy, Project Manager I

(412)963-2444

jill.colussy@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Job ID: 180-66504-2

Laboratory: TestAmerica Pittsburgh

Narrative

Job Narrative
180-66504-2

Receipt

The samples were received on 5/19/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

The client requested CR3 and CR6 analyses after the initial report was sent.

General Chemistry

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

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Definitions/Glossary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Accreditation/Certification Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Laboratory: TestAmerica Pittsburgh

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2891	03-31-18

Analysis Method	Prep Method	Matrix	Analyte
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Sample Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-66504-1	HA-1	Solid	05/18/17 13:42	05/19/17 09:10
180-66504-2	HA-2	Solid	05/18/17 13:55	05/19/17 09:10
180-66504-3	HA-3	Solid	05/18/17 14:05	05/19/17 09:10
180-66504-4	HA-4	Solid	05/18/17 14:18	05/19/17 09:10
180-66504-5	HA-5	Solid	05/18/17 14:30	05/19/17 09:10
180-66504-6	HA-6	Solid	05/18/17 14:38	05/19/17 09:10
180-66504-7	HA-1-DUP	Solid	05/18/17 13:42	05/19/17 09:10



Method Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Method	Method Description	Protocol	Laboratory
7196A	Chromium, Hexavalent	SW846	TAL PIT
7196A	Chromium, Trivalent (Colorimetric)	SW846	TAL PIT

Protocol References:

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

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058



Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
Matrix: Solid
Percent Solids: 36.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.53 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 06:57	ANA	TAL PIT
Instrument ID: GENESYS10S										

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid
Percent Solids: 72.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.48 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 06:58	ANA	TAL PIT
Instrument ID: GENESYS10S										

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
Matrix: Solid
Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.45 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Client Sample ID: HA-3

Date Collected: 05/18/17 14:05

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3

Matrix: Solid

Percent Solids: 70.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 06:59	ANA	TAL PIT
Instrument ID: GENESYS10S										

Client Sample ID: HA-4

Date Collected: 05/18/17 14:18

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4

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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-4

Date Collected: 05/18/17 14:18

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4

Matrix: Solid

Percent Solids: 57.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.55 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 07:01	ANA	TAL PIT
Instrument ID: GENESYS10S										

Client Sample ID: HA-5

Date Collected: 05/18/17 14:30

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5

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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-5

Date Collected: 05/18/17 14:30

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5

Matrix: Solid

Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.50 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 07:04	ANA	TAL PIT
Instrument ID: GENESYS10S										

Client Sample ID: HA-6

Date Collected: 05/18/17 14:38

Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6

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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT

TestAmerica Pittsburgh

Lab Chronicle

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.52 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 07:05	ANA	TAL PIT
Instrument ID: GENESYS10S										

Client Sample ID: HA-1-DUP
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-7
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	7196A		1			213489	06/07/17 11:55	MM1	TAL PIT
Instrument ID: NOEQUIP										

Client Sample ID: HA-1-DUP
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-7
Matrix: Solid
Percent Solids: 43.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.51 g	100 mL	213440	06/07/17 08:21	ANA	TAL PIT
Total/NA	Analysis	7196A		1	25 mL	25 mL	213700	06/09/17 07:06	ANA	TAL PIT
Instrument ID: GENESYS10S										

Laboratory References:

TAL PIT = TestAmerica Pittsburgh, 301 Alpha Drive, RIDC Park, Pittsburgh, PA 15238, TEL (412)963-7058

Analyst References:

Lab: TAL PIT

Batch Type: Prep

ANA = Alexis Anderson

Batch Type: Analysis

ANA = Alexis Anderson

MM1 = Mary Beth Miller

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
Matrix: Solid

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	36.1		0.500	0.114	mg/Kg			06/07/17 11:55	1

Client Sample ID: HA-1
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-1
Matrix: Solid
Percent Solids: 36.5

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.926	J	1.08	0.308	mg/Kg	☼	06/07/17 08:21	06/09/17 06:57	1

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	18.3		0.500	0.114	mg/Kg			06/07/17 11:55	1

Client Sample ID: HA-2
Date Collected: 05/18/17 13:55
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-2
Matrix: Solid
Percent Solids: 72.0

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.900		0.560	0.159	mg/Kg	☼	06/07/17 08:21	06/09/17 06:58	1

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
Matrix: Solid

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	18.9		0.500	0.114	mg/Kg			06/07/17 11:55	1

Client Sample ID: HA-3
Date Collected: 05/18/17 14:05
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-3
Matrix: Solid
Percent Solids: 70.4

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.165	U	0.580	0.165	mg/Kg	☼	06/07/17 08:21	06/09/17 06:59	1

Client Sample ID: HA-4
Date Collected: 05/18/17 14:18
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4
Matrix: Solid

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	27.2		0.500	0.114	mg/Kg			06/07/17 11:55	1

TestAmerica Pittsburgh

Client Sample Results

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Client Sample ID: HA-4
Date Collected: 05/18/17 14:18
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-4
Matrix: Solid
Percent Solids: 57.9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.408	J	0.677	0.192	mg/Kg	☼	06/07/17 08:21	06/09/17 07:01	1

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	12.9		0.500	0.114	mg/Kg	-		06/07/17 11:55	1

Client Sample ID: HA-5
Date Collected: 05/18/17 14:30
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-5
Matrix: Solid
Percent Solids: 93.6

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.740		0.427	0.121	mg/Kg	☼	06/07/17 08:21	06/09/17 07:04	1

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	15.0		0.500	0.114	mg/Kg	-		06/07/17 11:55	1

Client Sample ID: HA-6
Date Collected: 05/18/17 14:38
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-6
Matrix: Solid
Percent Solids: 92.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.204	J	0.428	0.122	mg/Kg	☼	06/07/17 08:21	06/09/17 07:05	1

Client Sample ID: HA-1-DUP
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-7
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (III)	19.1		0.500	0.114	mg/Kg	-		06/07/17 11:55	1

Client Sample ID: HA-1-DUP
Date Collected: 05/18/17 13:42
Date Received: 05/19/17 09:10

Lab Sample ID: 180-66504-7
Matrix: Solid
Percent Solids: 43.7

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.259	U	0.912	0.259	mg/Kg	☼	06/07/17 08:21	06/09/17 07:06	1

TestAmerica Pittsburgh

QC Sample Results

Client: AECOM, Inc.
 Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 180-213440/1-A
 Matrix: Solid
 Analysis Batch: 213700

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 213440

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cr (VI)	0.114	U	0.400	0.114	mg/Kg		06/07/17 06:04	06/09/17 06:37	1

Lab Sample ID: LCS1 180-213440/3-A
 Matrix: Solid
 Analysis Batch: 213700

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 213440

Analyte	Spike Added	LCSI Result	LCSI Qualifier	Unit	D	%Rec	Limits
Cr (VI)	708	692.8		mg/Kg		98	80 - 120

Lab Sample ID: LCSS 180-213440/2-A
 Matrix: Solid
 Analysis Batch: 213700

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 213440

Analyte	Spike Added	LCSS Result	LCSS Qualifier	Unit	D	%Rec	Limits
Cr (VI)	20.0	18.93		mg/Kg		95	80 - 120

QC Association Summary

Client: AECOM, Inc.
Project/Site: Ontario, California Soil Samples

TestAmerica Job ID: 180-66504-2

General Chemistry

Prep Batch: 213440

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	3060A	
180-66504-2	HA-2	Total/NA	Solid	3060A	
180-66504-3	HA-3	Total/NA	Solid	3060A	
180-66504-4	HA-4	Total/NA	Solid	3060A	
180-66504-5	HA-5	Total/NA	Solid	3060A	
180-66504-6	HA-6	Total/NA	Solid	3060A	
180-66504-7	HA-1-DUP	Total/NA	Solid	3060A	
MB 180-213440/1-A	Method Blank	Total/NA	Solid	3060A	
LCSI 180-213440/3-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSS 180-213440/2-A	Lab Control Sample	Total/NA	Solid	3060A	

Analysis Batch: 213489

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	7196A	
180-66504-2	HA-2	Total/NA	Solid	7196A	
180-66504-3	HA-3	Total/NA	Solid	7196A	
180-66504-4	HA-4	Total/NA	Solid	7196A	
180-66504-5	HA-5	Total/NA	Solid	7196A	
180-66504-6	HA-6	Total/NA	Solid	7196A	
180-66504-7	HA-1-DUP	Total/NA	Solid	7196A	

Analysis Batch: 213700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-66504-1	HA-1	Total/NA	Solid	7196A	213440
180-66504-2	HA-2	Total/NA	Solid	7196A	213440
180-66504-3	HA-3	Total/NA	Solid	7196A	213440
180-66504-4	HA-4	Total/NA	Solid	7196A	213440
180-66504-5	HA-5	Total/NA	Solid	7196A	213440
180-66504-6	HA-6	Total/NA	Solid	7196A	213440
180-66504-7	HA-1-DUP	Total/NA	Solid	7196A	213440
MB 180-213440/1-A	Method Blank	Total/NA	Solid	7196A	213440
LCSI 180-213440/3-A	Lab Control Sample	Total/NA	Solid	7196A	213440
LCSS 180-213440/2-A	Lab Control Sample	Total/NA	Solid	7196A	213440

Chain of Custody Record



Client Information
 Client Contact: Savannah Vogel
 Phone: 805 704 4034
 Company: AECOM, Inc.
 Address: 625 West Ridge Pike Suite E-100
 City: Conshohocken
 State, Zip: PA, 19428
 Phone: 610-832-6261(Tel)
 Email: crystal.may@aecom.com
 Project Name: Ontario, California Soil Samples
 Site: 18017499
 SSOW#: 18017499

Sampler: Savannah Vogel
Lab PM: Colussy, Jill L
E-Mail: jill.colussy@testamericainc.com
Phone: 805 704 4034

180-66504 Chain of Custody
 3-8216.1
 Page 1 of 1
 Job #

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=tissue, A=air)	Field Filled Sample (Yes or No)		Perform MS/MSD (Yes or No)		Total Number of Containers	Special Instructions/Note:
					Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)	Field Filled Sample (Yes or No)	Perform MS/MSD (Yes or No)		
HA-1	05/18/17	1342	G	Solid	X	X	X	X		
HA-2	05/18/17	1355	G	Solid	X	X	X	X		
HA-3	05/18/17	1405	G	Solid	X	X	X	X		
HA-4	05/18/17	1418	G	Solid	X	X	X	X		
HA-5	05/18/17	1430	G	Solid	X	X	X	X		
HA-6	05/18/17	1438	G	Solid	X	X	X	X		
HA-1 QUD	05/18/17	1342	G	Solid	X	X	X	X		

Analysis Requested

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

Preservation Codes:
 M - Hexane
 N - None
 O - AsNaO2
 P - Na2O4S
 Q - Na2SO3
 R - Na2S2O3
 S - H2SO4
 T - TSP Dodecahydrate
 U - Acetone
 V - MCAA
 W - pH 4.5
 Z - other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements:

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: S. Vogel
 Date/Time: 05/18/17
 Relinquished by: S. Vogel
 Relinquished by: _____
 Relinquished by: _____

Received by: Jill Colussy
 Date/Time: 5-19-17
 Company: AECOM
 Received by: _____
 Date/Time: _____
 Company: _____

Method of Shipment: _____
 Cooler Temperature(s) °C and Other Remarks: _____

Custody Seal No.: _____
 Δ Yes Δ No



Login Sample Receipt Checklist

Client: AECOM, Inc.

Job Number: 180-66504-2

Login Number: 66504

List Source: TestAmerica Pittsburgh

List Number: 1

Creator: Watson, Debbie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
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.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

