

Date: August 25, 2017
Project No.: 851-1-2
Prepared For: Mr. Erik Hayden
HAYDEN LAND COMPANY, LLC
15732 Los Gatos Boulevard, Suite #101
Los Gatos, California 95032
Re: Preliminary Soil Quality Evaluation
3035 El Camino Real
Santa Clara, California

Dear Mr. Hayden:

We are pleased to present this letter summarizing the results of the preliminary soil quality evaluation performed at 3035 El Camino Real in Santa Clara, California (Site). This work was performed in accordance with our agreement dated June 22, 2017.

Project Background

We understand Hayden Land Company, LLC is planning to purchase and redevelop the Site with a three-story wood framed structure (100 units) above either at-grade parking or ½ level of underground parking. The parking structure will “encapsulate” most of the property except for an emergency vehicle access road around the building.

Purpose

Based on information obtained from Cornerstone’s Phase I Environmental Site Assessment (ESA) dated October 27, 2015, the Site formerly was used for agricultural purposes for several decades until the 1960s. Pesticides may have been applied to crops in the normal course of farming operations. The purpose of the work summarized in this letter was to evaluate if residual pesticide concentrations are present in on-Site soil.

Soil Sampling and Analyses

PRE-FIELD ACTIVITIES

Cornerstone contacted Underground Service Alert more than 48 hours before beginning drilling activities and Greg King of San Leandro, California, to “clear” the boring locations for subsurface utilities. Additionally, Cornerstone coordinated with Penecore Drilling, of Woodland, California, a licensed drilling contractor possessing a C-57 water well contractor’s license issued by the State of California, to perform the drilling activities.

EXPLORATORY BORINGS

On July 5, 2017, our field geologist under the oversight of a California Certified Professional Engineer, directed a subsurface investigation, continuously logged in general accordance with



the Unified Soil Classification System (ASTM D-2487) and sampled eight exploratory borings (SB-1 through SB-8) to depths of up to approximately 5 feet (Figure 2). These borings were advanced at accessible locations to help evaluate if the Site has been impacted by past agricultural activities.

The exploratory borings were advanced using limited access direct push technology. Samples were collected using the Dual Wall Sampling System, which helps reduce cross contamination between sampling intervals. The Dual Wall Sampler was comprised of two main components: an exterior steel casing and an inner sample barrel (Single Wall Sampler). The outer casing had a 2-inch outer diameter (OD) and a 1.5-inch inner diameter (ID). The sample barrel (Single Wall Sampler) was 5 feet in length with a 1.375-inch outside diameter (OD) and a 1-inch inner diameter (ID). The Dual Wall sample barrel was loaded with a 5-foot acetate liner and installed inside the outer casing. The outer drive casing and inner sample barrel were then hydraulically pushed to a depth of approximately 5 feet. Upon the same day of completion, the borings were tremie grouted without delays to the surface.

Downhole drilling and sampling equipment were steam cleaned with a pressure washer prior to commencement of drilling and between each well borehole.

SUBSURFACE CONDITIONS AND MATERIALS

Except for the landscaping fronting El Camino Real, surface conditions in the area of the borings consisted of asphalt pavement. Asphalt thickness observed in the borings was approximately 2 to 3 inches and underlain by approximately 4 to 8 inches of aggregate base rock. The upper approximate 1½ to 3 feet of soil consisted mainly of fat clay. The fat clay was underlain by lean clay that extended to the maximum depth explored of 5 feet. A sandy lean clay with gravel fill and minor fragments of debris was observed at boring SB-4 in the upper approximate 4 feet. A clayey sand with gravel was observed at boring SB-8 in the upper approximate 2 feet of soil. Underlying these fill soils was fat clay. Boring logs are attached to this letter.

SOIL SAMPLE COLLECTION AND LABORATORY ANALYSES

Nine soil samples were collected in acetate liners from borings SB-1 through SB-8 for laboratory analyses. Ends of the soil samples were covered in a Teflon film, fitted with plastic end caps, and labeled with a unique sample identification number. Samples for laboratory analyses were placed in an ice-chilled cooler and transported to a state-certified laboratory with chain of custody documentation.

The eight soil samples collected from the upper approximate ½ foot of soil observed in each boring was analyzed for organochlorine pesticides (OCPs) by EPA Test Method 8081A and pesticide associated metals arsenic, lead, and mercury by EPA Test Method 6010B/7471A. A deeper soil sample collected from approximately 2½ to 3 feet at boring SB-8 was analyzed for OCPs and lead.

ENVIRONMENTAL SCREENING CRITERIA

The soil analytical results were compared to Regional Screening Levels (RSLs) established by the USEPA Region 9 (USEPA, June 2017) unless a DTSC recommended Screening Level (SL) is available as presented in the DTSC Office of Human and Ecological Risk (HERO) guidance document *Human Health Risk Assessment (HHRA) Note 3* last updated in June 2017. The

results were also compared to Total Threshold Limit Concentration (TTLC) values established by the State of California (Title 22, California Code of Regulations) for hazardous waste designation. The TTLC is the concentration at which a solid waste is considered a hazardous waste, for waste disposal classification purposes, per Title 26 of the California Code of Regulations. Since natural background concentrations of arsenic are often well above the health-based DTSC-SL, the California Environmental Protection Agency generally does not require cleanup of metals in soil to below background levels. Bradford et.al. (1996) estimated that background arsenic concentrations in California soil types range from 0.6 mg/kg to 11 mg/kg. Scott (1991) documented background arsenic concentrations ranging up to 20 mg/kg. Duverge (2011) concluded that the mean and upper estimate (the 99th percentile) for background arsenic levels in the San Francisco Bay Region are 4.61 mg/kg and 11 mg/kg, respectively. For this letter, an assumed maximum background arsenic concentration of 20 mg/kg (Scott, 1991) was used for comparison of the analytical results.

SUMMARY OF ANALYTICAL DATA

Detected compounds in soil samples are presented in Tables 1 and 2 attached to this letter. Chain of custody documentation and laboratory analytical reports are also attached.

- Arsenic was detected in 8 of 8 samples analyzed at concentrations ranging from 2.6 to 17 mg/kg. The calculated 95 percent upper confidence limit (UCL)¹ for arsenic is 11.42 mg/kg.
- Lead was detected in 9 of 9 samples analyzed at concentrations ranging from 8 to 140 mg/kg. One soil sample (SB-8) contained a lead concentration (140 mg/kg) that exceeded its residential DTSC-SL of 80 mg/kg. As shown on Figure 2, boring SB-8 is located in the southeast corner of the Site in the approximate area of historical structures. A deeper soil sample collected approximately 1½ feet below the shallow sample contained a lead concentration of 9.8 mg/kg.
- Mercury was detected in 8 of 8 samples analyzed at concentrations ranging from 0.056 to 0.11 mg/kg. These concentrations are typical of natural background and did not exceed its residential DTSC-SL (1 mg/kg).
- Dichlorodiphenyldichloroethane (DDD) was detected in 5 of 9 samples analyzed at concentrations ranging from 0.0077 to 0.89 mg/kg. These concentrations were below its residential RSL of 2.3 mg/kg.

¹ To evaluate the potential risk posed by a contaminant, EPA recommends using the average concentration to represent “a reasonable estimate of the concentration likely to be contacted over time” (USEPA 1989). Because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent UCL of the arithmetic mean can be used for this variable. The 95 percent UCL was calculated using USEPA’s ProUCL software Version 5.1.002 (USEPA, 2016). The 95 percent UCL provides reasonable confidence that the true site average concentration will not be underestimated and accounts for uncertainties due to limited sampling data. The 95 percent UCL of a mean is defined as a value that, when calculated repeatedly for randomly drawn subsets of site data, equals or exceeds the true mean 95 percent of the time. The 95 percent UCL of the mean provides a conservative estimate of the average (or mean) concentration. A chemical contaminant is not considered to be present at a level of concern if the calculated 95 percent UCL is less than its respective regulatory threshold concentration (USEPA, 2007).

- Dichlorodiphenyldichloroethylene (DDE) was detected in 6 of 9 samples analyzed at concentrations ranging from 0.052 to 0.1 mg/kg. These concentrations were below its residential RSL of 2 mg/kg.
- Dichloro-diphenyl-trichloroethane (DDT) was detected in 2 of 9 samples analyzed at concentrations of 0.038 and 1.9 mg/kg. These concentrations did not exceed its residential RSL of 1.9 mg/kg.
- Total DDT (sum of DDD, DDE, and DDT) exceeded its TTLC of 1 mg/kg in 1 of 9 soil samples analyzed. The near surface soil sample collected from SB-8 contained a Total DDT concentration of 2.842 mg/kg. A deeper soil sample collected approximately 1½ feet below the shallow sample did not detect DDD, DDE, or DDT.
- Alpha-Chlordane was detected in 1 of 9 samples analyzed at a concentration of 0.0032 mg/kg. Gamma-Chlordane was also detected in this soil sample at a concentration of 0.0043 mg/kg.
- Dieldrin was detected in 1 of 9 samples at a concentration of 0.0022 mg/kg. This concentration did not exceed its residential RSL of 0.034 mg/kg.

Conclusions and Recommendations

Laboratory analyses of the soil samples did not detect OCPs, lead, or mercury above residential screening levels except for lead in one near surface soil sample collected at location SB-8. Boring SB-8 was advanced in the southeast corner of the Site where former structures were present. Lead was detected in the near surface soil sample at a concentration of 140 mg/kg; its residential DTSC-SL is 80 mg/kg. A deeper soil sample collected from boring SB-8 approximately 1½ feet below the shallow soil sample contained a lead concentration of 9.8 mg/kg.

Based on the analytical data, the source of the elevated lead in the SB-8 sample likely is attributed to lead-based paint residue from the former structures. Soil adjacent to structures that are painted with lead-containing paint can become impacted with lead as a result of the weathering and/or peeling of painted surfaces. The approximate general area of the former structures is shown on Figure 2.

As shown in Table 1, total DDT exceeded its TTLC in the near surface soil sample collected at location SB-8. Similar to lead, the deeper soil sample collected from the SB-8 location did not detect DDT, DDD, or DDE above its screening criteria or TTLC. The source of the elevated total DDT may be associated with possible pest control spraying near the former foundations of the wood-framed structures. Soil near wood framed structures also can be impacted by pesticides historically used to control termites.

The TTLC is the concentration at which a solid waste is considered a hazardous waste, for waste disposal classification purposes, per Title 22 of the California Code of Regulations. Note, however, that the soil is not considered a waste (and therefore is not a hazardous waste) unless it is intended to be discarded or disposed. The TTLC criteria is used determine the type of landfill to which a waste material must be sent; if the TTLC is exceeded, a waste must in general be sent to a Class I, hazardous waste landfill. TTLCs were established in the 1980s and are only loosely based on human health and environmental considerations, such as the potential for the waste to impact ground water in a landfill environment. In most cases, TTLC

values exceed the more recently established, human health based environmental screening levels (e.g., US EPA RSLs). However, for total DDT, the TTLC is lower than the RSL. Thus, while soil with total DDT concentrations below the RSL is not considered to pose a significant risk to human health, the soil could be classified as a hazardous waste if it were excavated and transported off-Site for disposal. This is a reflection of the less rigorous development of the TTLC values that are used for waste classification purposes per Title 22 of the California Code of Regulations.

Based on the limited data, the lateral and vertical extent of impacted soil in the southeastern corner of the Site is not known; however, based on our experience, it is likely limited to the upper 1 to 2 feet of soil near the former structures. We recommend additional soil sampling in the area of the former structures to help evaluate the distribution and magnitude of lead and total DDT concentrations. The additional data can be used to perform a statistical analysis of the dataset (*i.e.*, *calculating the 95 percent UCL*) to help evaluate disposal and/or reuse options, if any, for soil near the SB-8 location. Soil that must be off-hauled and contains a total DDT concentration exceeding its TTLC will be classified as a California Hazardous Waste, significantly increasing disposal costs. Similarly, based on our experience, lead concentrations that exceed its residential DTSC-SL may also exceed its Soluble Threshold Limit Concentration (STLC) that defines a waste as hazardous in California if excavated and off-hauled.

Arsenic was detected in the soil samples at concentrations ranging from 2.6 mg/kg to 17 mg/kg with a calculated 95 percent UCL of 11.42 mg/kg. The 95 percent UCL concentration is within range of typical natural background reported in regional studies.

Limitations

This letter, an instrument of professional service, was prepared for the sole use of Hayden Land Company, LLC and may not be reproduced or distributed without written authorization from Cornerstone. The chemical data presented in this letter may change over time and are only valid for this time and location. Cornerstone makes no warranty, expressed or implied, except that our services have been performed in accordance with the environmental principles generally accepted at this time and location.

Closing

Should you have any questions regarding this letter, or if we may be of further service, please contact us at your convenience.

Sincerely,

Cornerstone Earth Group, Inc.



Nick Brettner
Senior Staff Geologist

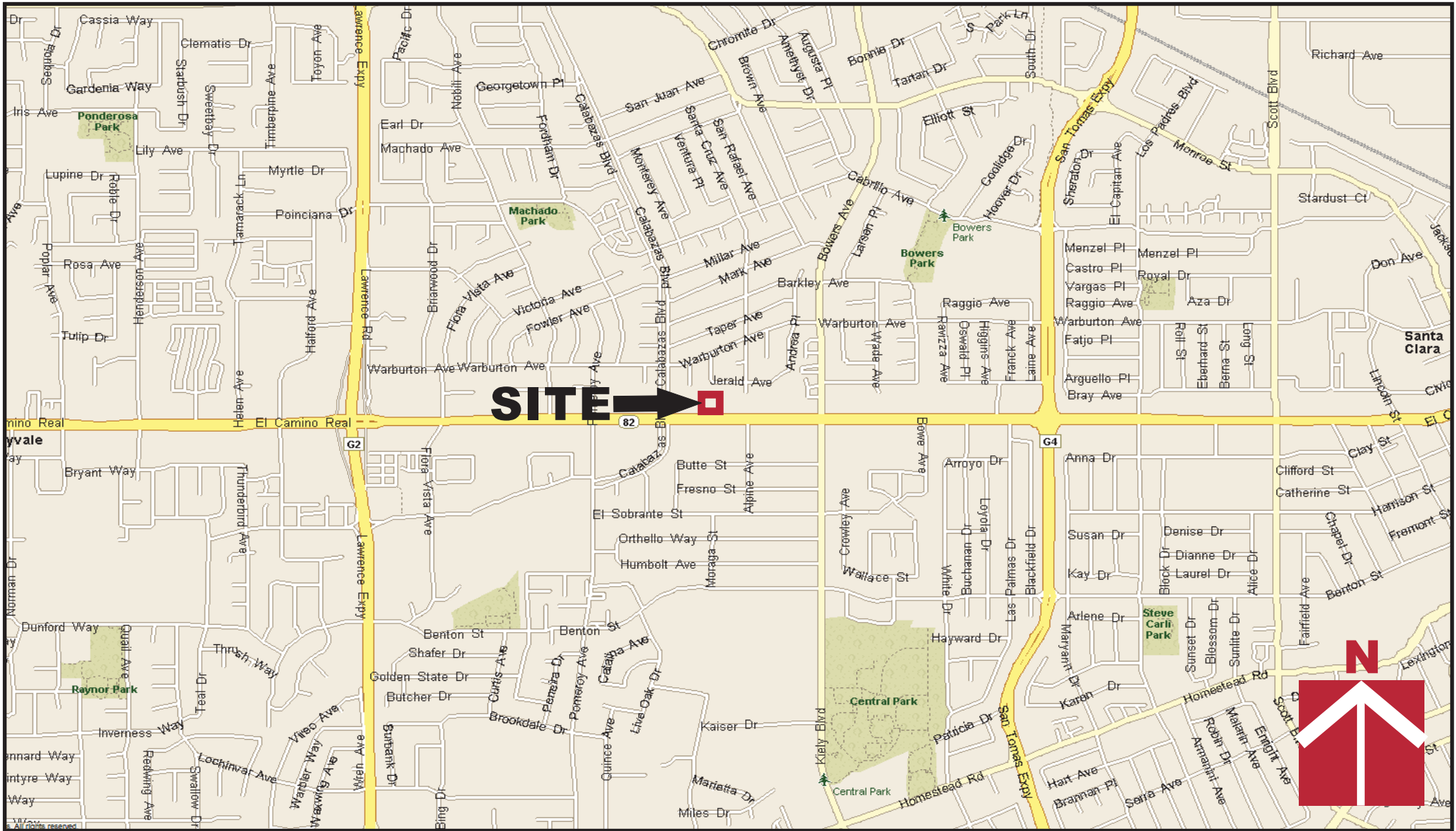


Kurt M. Soenen, P.E.
Principal Engineer

Copies: Addressee (1 by email)

Attachments: Data Summary Tables
 Figures
 Analytical Data Sheets and Chain of Custody Documentation

FIGURES



**CORNERSTONE
EARTH GROUP**

Vicinity Map

**3035 El Camino Real
Santa Clara, CA**

Project Number

851-1-2

Figure Number

Figure 1

Date

July 2017

Drawn By

FLL



Legend

⊙ Approximate location of soil boring (SB)



Site Plan

3035 El Camino Real
Santa Clara, CA

Project Number	851-1-2
Figure Number	Figure 2
Date	July 2017
Drawn By	FLL, ESY

DATA TABLES

Table 1. Analytical Results of Soil Samples - Metals
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	Arsenic	Lead	Mercury
SB-1 (0.5-1)	7/5/2017	½-1	4.6	8.5	0.16
SB-2 (1-1.5)	7/5/2017	1-1½	14	66	0.08
SB-3 (0.5-1)	7/5/2017	½-1	10	14	0.11
SB-4 (0-1)	7/5/2017	0-1	5	39	0.056
SB-5 (0.5-1)	7/5/2017	½-1	4.3	8	0.083
SB-6 (1-1.5)	7/5/2017	1-1½	6.1	20	0.056
SB-7 (1-1.5)	7/5/2017	1-1½	17	33	0.075
SB-8 (0.5-1)	7/5/2017	½-1	2.6	140	0.069
SB-8 (2.5-3)	7/5/2017	2½-3	---	9.8	---
Maximum Detection			17	140	0.16
Residential DTSC-SL ¹			20 ²	80	1

1 DTSC Recommended Residential Screening Level (SL), HERO Note 3 - June 2017

2 Maximum Background Detection - Scott, Christina. December 1991. Background Metals Concentrations in Soils in Northern Santa Clara County.

--- Not Analyzed

BOLD Concentration exceeds selected environmental screening criteria

Table 2. Analytical Results of Soil Samples - OCPs
(Concentrations in mg/kg)

Sample ID	Date	Depth (feet)	4,4'-DDD	4,4'-DDE	4,4'-DDT	DDT Total	alpha-Chlordane	gamma-Chlordane	Dieldrin
SB-1 (0.5-1)	7/5/2017	½-1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
SB-2 (1-1.5)	7/5/2017	1-1½	0.0077	0.075	<0.002	0.0827	<0.002	<0.002	<0.002
SB-3 (0.5-1)	7/5/2017	½-1	0.01	0.1	<0.0019	0.11	<0.0019	<0.0019	<0.0019
SB-4 (0-1)	7/5/2017	0-1	<0.002	0.07	0.038	0.108	0.0032	0.0043	0.0022
SB-5 (0.5-1)	7/5/2017	½-1	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019
SB-6 (1-1.5)	7/5/2017	1-1½	0.011	0.058	<0.002	0.069	<0.002	<0.002	<0.002
SB-7 (1-1.5)	7/5/2017	1-1½	0.0091	0.088	<0.002	0.0971	<0.002	<0.002	<0.002
SB-8 (0.5-1)	7/5/2017	½-1	0.89	0.052	1.9	2.842	<0.019	<0.019	<0.019
SB-8 (2.5-3)	7/5/2017	2½-3	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
Maximum Detection			0.89	0.1	1.9	2.842	0.0032	0.0043	0.0022
Residential RSL ¹			2.3	2	1.9	NE	NE	NE	0.034
TTL ²			1	1	1	1	NE	NE	8

1 Regional Screening Level (RSL), USEPA Region 9 - June 2017.

2 Total Threshold Limit Concentration - California Code of Regulations, Title 22.

< Not detected at or above laboratory reporting limit

NE Not Established

BOLD Concentration exceeds selected environmental screening criteria

SOIL BORING LOGS



CORNERSTONE EARTH GROUP

BORING NUMBER SB-1

PAGE 1 OF 1

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation
PROJECT NUMBER 851-1-2
PROJECT LOCATION Santa Clara, CA
DATE STARTED 7/5/17 **DATE COMPLETED** 7/5/17
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY NPB
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		2 inches asphalt concrete over 4 inches aggregate base			x				
			Fat Clay (CH) medium stiff, moist, dark gray				100	N/A	None	
			Lean Clay (CL) stiff, moist, dark brown			x				
	5		Bottom of Boring at 5.0 feet.			x				



CORNERSTONE EARTH GROUP

BORING NUMBER SB-2

PAGE 1 OF 1

DATE STARTED 7/5/17 DATE COMPLETED 7/5/17

DRILLING CONTRACTOR Penecore

DRILLING METHOD Direct Push

LOGGED BY NPB

NOTES _____

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation

PROJECT NUMBER 851-1-2

PROJECT LOCATION Santa Clara, CA

GROUND ELEVATION _____ BORING DEPTH 5 ft.

LATITUDE _____ LONGITUDE _____

GROUND WATER LEVELS:

▽ **AT TIME OF DRILLING** Not Encountered

▼ **AT END OF DRILLING** Not Encountered

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 7 inches aggregate base							
			Fat Clay (CH) stiff, moist, dark gray			x				
			Lean Clay (CL) stiff, moist, dark brown			x	100	N/A	None	
	5		Bottom of Boring at 5.0 feet.			x				



CORNERSTONE EARTH GROUP

BORING NUMBER SB-3

PAGE 1 OF 1

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation
PROJECT NUMBER 851-1-2
PROJECT LOCATION Santa Clara, CA
DATE STARTED 7/5/17 **DATE COMPLETED** 7/5/17
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY NPB
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered

NOTES

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		2 inches asphalt concrete over 4 inches aggregate base			x				
			Fat Clay (CH) stiff, moist, dark gray				80	N/A	None	
			Lean Clay (CL) stiff, moist, dark brown, some fine subangular gravel			x				
	5		Bottom of Boring at 5.0 feet.			x				



CORNERSTONE EARTH GROUP

BORING NUMBER SB-4

PAGE 1 OF 1

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation
 PROJECT NUMBER 851-1-2
 PROJECT LOCATION Santa Clara, CA
 GROUND ELEVATION _____ BORING DEPTH 5 ft.
 LATITUDE _____ LONGITUDE _____
 GROUND WATER LEVELS:
 ▽ AT TIME OF DRILLING Not Encountered
 ▼ AT END OF DRILLING Not Encountered

DATE STARTED 7/5/17 DATE COMPLETED 7/5/17
 DRILLING CONTRACTOR Penecore
 DRILLING METHOD Hand Auger
 LOGGED BY NPB
 NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		Sandy Lean Clay with Gravel (CL) [Fill] stiff, moist, dark brown, fine to coarse sand, fine to coarse subangular to subrounded gravel, brick, glass, concrete fragments			x				
			Fat Clay (CH) stiff, moist, dark gray			x		N/A	None	
	5		Bottom of Boring at 5.0 feet.			x				
	10									
	15									
	20									



CORNERSTONE EARTH GROUP

BORING NUMBER SB-5

PAGE 1 OF 1

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation
PROJECT NUMBER 851-1-2
PROJECT LOCATION Santa Clara, CA
DATE STARTED 7/5/17 **DATE COMPLETED** 7/5/17
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered
LOGGED BY NPB
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		2 inches asphalt concrete over 5 inches aggregate base			x				
			Fat Clay (CH) stiff, moist, dark gray			x	100	N/A	None	
			Lean Clay (CL) stiff, moist, dark brown			x				
	5		Bottom of Boring at 5.0 feet.							



CORNERSTONE EARTH GROUP

BORING NUMBER SB-6

PAGE 1 OF 1

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation
PROJECT NUMBER 851-1-2
PROJECT LOCATION Santa Clara, CA
DATE STARTED 7/5/17 **DATE COMPLETED** 7/5/17
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
LOGGED BY NPB
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered
NOTES _____

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ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 8 inches aggregate base							
			Fat Clay (CH) stiff, moist, dark gray			x	100	N/A	None	
			Lean Clay (CL) stiff, moist, dark brown, some fine subangular to subrounded gravel			x				
	5		Bottom of Boring at 5.0 feet.			x				
	10									
	15									
	20									



CORNERSTONE EARTH GROUP

BORING NUMBER SB-7

PAGE 1 OF 1

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation
PROJECT NUMBER 851-1-2
PROJECT LOCATION Santa Clara, CA
DATE STARTED 7/5/17 **DATE COMPLETED** 7/5/17
GROUND ELEVATION _____ **BORING DEPTH** 5 ft.
DRILLING CONTRACTOR Penecore
LATITUDE _____ **LONGITUDE** _____
DRILLING METHOD Direct Push
GROUND WATER LEVELS:
 AT TIME OF DRILLING Not Encountered
 AT END OF DRILLING Not Encountered
LOGGED BY NPB
NOTES _____

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 6 inches aggregate base							
			Fat Clay (CH) stiff, moist, dark gray			x	100	N/A	None	
			Lean Clay (CL) stiff, moist, dark brown			x				
	5		Bottom of Boring at 5.0 feet.			x				
	10									
	15									
	20									

CORNERSTONE GE LOG DEC192007 - CORNERSTONE 0812.GDT - 8/7/17 12:28 - P:\DRAFTING\GINT FILES\851-1-2 3035 EL CAMINO REAL.GPJ



CORNERSTONE EARTH GROUP

BORING NUMBER SB-8

PAGE 1 OF 1

DATE STARTED 7/5/17 DATE COMPLETED 7/5/17

DRILLING CONTRACTOR Penecore

DRILLING METHOD Direct Push

LOGGED BY NPB

NOTES _____

PROJECT NAME 3035 El Camino Real Soil Quality Evaluation

PROJECT NUMBER 851-1-2

PROJECT LOCATION Santa Clara, CA

GROUND ELEVATION _____ BORING DEPTH 5 ft.

LATITUDE _____ LONGITUDE _____

GROUND WATER LEVELS:

▽ **AT TIME OF DRILLING** Not Encountered

▼ **AT END OF DRILLING** Not Encountered

This log is a part of a report by Cornerstone Earth Group, and should not be used as a stand-alone document. This description applies only to the location of the exploration at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with time. The description presented is a simplification of actual conditions encountered. Transitions between soil types may be gradual.

ELEVATION (ft)	DEPTH (ft)	SYMBOL	DESCRIPTION	N-Value (uncorrected) blows per foot	Sample Type and Interval	Sample Submitted for Laboratory Analysis	Percent Recovery (%)	OMV Reading (ppm)	Odors or Discoloration	Notes
	0		3 inches asphalt concrete over 4 inches aggregate base			x				
			Clayey Sand with Gravel (SC) [Fill] dense, moist, dark brown, fine to coarse sand, fine to coarse subangular to angular gravel			x	60	N/A	None	
			Fat Clay (CH) stiff, moist, dark gray			x				
	5		Bottom of Boring at 5.0 feet.			x				

ANALYTICAL DATA REPORTS

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-80493-1

Client Project/Site: 3035 El Camino Real PH II

For:

Cornerstone Earth Group

1259 Oakmead Parkway

Sunnyvale, California 94085

Attn: Kurt Soenen



Authorized for release by:

7/14/2017 5:10:17 PM

Afsaneh Salimpour, Senior Project Manager

(925)484-1919

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

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

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Definitions/Glossary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Case Narrative

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Job ID: 720-80493-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-80493-1

Comments

No additional comments.

Receipt

The samples were received on 7/5/2017 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

GC Semi VOA

Method(s) 8081A: The %RPD between the primary and confirmation column / detector exceeded 40% for alpha-Chlordane for the following sample: SB-4 (0-1) (720-80493-10). The lower value(s) has been reported and qualified in accordance with the laboratory's SOP.

Method(s) 8081A: The following sample required a dilution due to the nature of the sample matrix: SB-8 (0.5-1) (720-80493-22). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

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

Organic Prep

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

Detection Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-1 (0.5-1)

Lab Sample ID: 720-80493-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.5		1.2		mg/Kg	4		6010B	Total/NA
Arsenic	4.6		2.3		mg/Kg	4		6010B	Total/NA
Mercury	0.16		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-2 (1-1.5)

Lab Sample ID: 720-80493-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	75		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	7.7		2.0		ug/Kg	1		8081A	Total/NA
Lead	66		1.5		mg/Kg	4		6010B	Total/NA
Arsenic	14		3.0		mg/Kg	4		6010B	Total/NA
Mercury	0.080		0.0097		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-3 (0.5-1)

Lab Sample ID: 720-80493-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	100		1.9		ug/Kg	1		8081A	Total/NA
4,4'-DDD	10		1.9		ug/Kg	1		8081A	Total/NA
Lead	14		1.4		mg/Kg	4		6010B	Total/NA
Arsenic	10		2.7		mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-4 (0-1)

Lab Sample ID: 720-80493-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	2.2		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	38		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	70		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	3.2	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	4.3		2.0		ug/Kg	1		8081A	Total/NA
Lead	39	F1	1.7		mg/Kg	4		6010B	Total/NA
Arsenic	5.0		3.4		mg/Kg	4		6010B	Total/NA
Mercury	0.056		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-5 (0.5-1)

Lab Sample ID: 720-80493-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.0		1.0		mg/Kg	4		6010B	Total/NA
Arsenic	4.3		2.1		mg/Kg	4		6010B	Total/NA
Mercury	0.083		0.0098		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-6 (1-1.5)

Lab Sample ID: 720-80493-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	58		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	11		2.0		ug/Kg	1		8081A	Total/NA
Lead	20		1.1		mg/Kg	4		6010B	Total/NA
Arsenic	6.1		2.1		mg/Kg	4		6010B	Total/NA
Mercury	0.056		0.0094		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Detection Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-7 (1-1.5)

Lab Sample ID: 720-80493-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	88		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	9.1		2.0		ug/Kg	1		8081A	Total/NA
Lead	33		1.4		mg/Kg	4		6010B	Total/NA
Arsenic	17		2.7		mg/Kg	4		6010B	Total/NA
Mercury	0.075		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: SB-8 (0.5-1)

Lab Sample ID: 720-80493-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	1900		19		ug/Kg	10		8081A	Total/NA
4,4'-DDE	52		19		ug/Kg	10		8081A	Total/NA
4,4'-DDD	890		19		ug/Kg	10		8081A	Total/NA
Lead	140		1.2		mg/Kg	4		6010B	Total/NA
Arsenic	2.6		2.4		mg/Kg	4		6010B	Total/NA
Mercury	0.069		0.0097		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-1 (0.5-1)

Lab Sample ID: 720-80493-1

Date Collected: 07/05/17 09:24

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Dieldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Endrin aldehyde	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Endrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Endrin ketone	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Heptachlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
4,4'-DDT	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
4,4'-DDE	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
4,4'-DDD	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Endosulfan I	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Endosulfan II	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
alpha-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
beta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
delta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Methoxychlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Toxaphene	ND		40		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Chlordane (technical)	ND		40		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
alpha-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
gamma-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	80		21 - 145				07/11/17 14:05	07/12/17 15:14	1
DCB Decachlorobiphenyl	110		21 - 136				07/11/17 14:05	07/12/17 15:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.5		1.2		mg/Kg		07/07/17 08:19	07/07/17 16:43	4
Arsenic	4.6		2.3		mg/Kg		07/07/17 08:19	07/07/17 16:43	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.0097		mg/Kg		07/10/17 09:59	07/10/17 12:29	1

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-2 (1-1.5)

Lab Sample ID: 720-80493-4

Date Collected: 07/05/17 09:12

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Dieldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Endrin aldehyde	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Endrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Endrin ketone	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Heptachlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
4,4'-DDT	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
4,4'-DDE	75		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
4,4'-DDD	7.7		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Endosulfan I	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Endosulfan II	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
alpha-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
beta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
delta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Methoxychlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Toxaphene	ND		40		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Chlordane (technical)	ND		40		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
alpha-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
gamma-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 15:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	90		21 - 145				07/11/17 14:05	07/12/17 15:31	1
<i>DCB Decachlorobiphenyl</i>	123		21 - 136				07/11/17 14:05	07/12/17 15:31	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	66		1.5		mg/Kg		07/07/17 08:19	07/07/17 16:48	4
Arsenic	14		3.0		mg/Kg		07/07/17 08:19	07/07/17 16:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.080		0.0097		mg/Kg		07/10/17 09:59	07/10/17 12:31	1

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-3 (0.5-1)

Lab Sample ID: 720-80493-7

Date Collected: 07/05/17 09:34

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Dieldrin	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Endrin aldehyde	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Endrin	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Endrin ketone	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Heptachlor	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Heptachlor epoxide	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
4,4'-DDT	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
4,4'-DDE	100		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
4,4'-DDD	10		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Endosulfan I	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Endosulfan II	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
alpha-BHC	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
beta-BHC	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
delta-BHC	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Endosulfan sulfate	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Methoxychlor	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Toxaphene	ND		39		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Chlordane (technical)	ND		39		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
alpha-Chlordane	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
gamma-Chlordane	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	83		21 - 145				07/11/17 14:05	07/12/17 15:49	1
<i>DCB Decachlorobiphenyl</i>	132		21 - 136				07/11/17 14:05	07/12/17 15:49	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		1.4		mg/Kg		07/07/17 08:19	07/07/17 16:53	4
Arsenic	10		2.7		mg/Kg		07/07/17 08:19	07/07/17 16:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.11		0.0086		mg/Kg		07/10/17 09:59	07/10/17 12:34	1

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-4 (0-1)

Lab Sample ID: 720-80493-10

Date Collected: 07/05/17 10:05

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Dieldrin	2.2		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Endrin aldehyde	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Endrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Endrin ketone	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Heptachlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
4,4'-DDT	38		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
4,4'-DDE	70		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
4,4'-DDD	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Endosulfan I	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Endosulfan II	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
alpha-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
beta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
delta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Methoxychlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Toxaphene	ND		40		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Chlordane (technical)	ND		40		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
alpha-Chlordane	3.2	p	2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
gamma-Chlordane	4.3		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	79		21 - 145				07/11/17 14:05	07/12/17 16:06	1
<i>DCB Decachlorobiphenyl</i>	122		21 - 136				07/11/17 14:05	07/12/17 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	39	F1	1.7		mg/Kg		07/07/17 08:19	07/07/17 14:47	4
Arsenic	5.0		3.4		mg/Kg		07/07/17 08:19	07/07/17 14:47	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.0086		mg/Kg		07/10/17 09:59	07/10/17 12:36	1

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-5 (0.5-1)

Lab Sample ID: 720-80493-13

Date Collected: 07/05/17 08:40

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Dieldrin	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Endrin aldehyde	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Endrin	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Endrin ketone	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Heptachlor	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Heptachlor epoxide	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
4,4'-DDT	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
4,4'-DDE	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
4,4'-DDD	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Endosulfan I	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Endosulfan II	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
alpha-BHC	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
beta-BHC	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
delta-BHC	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Endosulfan sulfate	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Methoxychlor	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Toxaphene	ND		39		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Chlordane (technical)	ND		39		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
alpha-Chlordane	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
gamma-Chlordane	ND		1.9		ug/Kg		07/11/17 14:05	07/12/17 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	81		21 - 145				07/11/17 14:05	07/12/17 16:24	1
DCB Decachlorobiphenyl	86		21 - 136				07/11/17 14:05	07/12/17 16:24	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.0		1.0		mg/Kg		07/07/17 08:19	07/07/17 16:59	4
Arsenic	4.3		2.1		mg/Kg		07/07/17 08:19	07/07/17 16:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.083		0.0098		mg/Kg		07/10/17 09:59	07/10/17 12:39	1

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-6 (1-1.5)

Lab Sample ID: 720-80493-16

Date Collected: 07/05/17 08:10

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Dieldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Endrin aldehyde	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Endrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Endrin ketone	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Heptachlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
4,4'-DDT	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
4,4'-DDE	58		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
4,4'-DDD	11		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Endosulfan I	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Endosulfan II	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
alpha-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
beta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
delta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Methoxychlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Toxaphene	ND		40		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Chlordane (technical)	ND		40		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
alpha-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
gamma-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	94		21 - 145				07/11/17 14:05	07/12/17 16:41	1
<i>DCB Decachlorobiphenyl</i>	98		21 - 136				07/11/17 14:05	07/12/17 16:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		1.1		mg/Kg		07/07/17 08:19	07/07/17 17:04	4
Arsenic	6.1		2.1		mg/Kg		07/07/17 08:19	07/07/17 17:04	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.056		0.0094		mg/Kg		07/10/17 09:59	07/10/17 12:42	1

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-7 (1-1.5)

Lab Sample ID: 720-80493-19

Date Collected: 07/05/17 08:26

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Dieldrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Endrin aldehyde	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Endrin	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Endrin ketone	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Heptachlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
4,4'-DDT	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
4,4'-DDE	88		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
4,4'-DDD	9.1		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Endosulfan I	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Endosulfan II	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
alpha-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
beta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
delta-BHC	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Methoxychlor	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Toxaphene	ND		40		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Chlordane (technical)	ND		40		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
alpha-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
gamma-Chlordane	ND		2.0		ug/Kg		07/11/17 14:05	07/12/17 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	84		21 - 145				07/11/17 14:05	07/12/17 16:59	1
<i>DCB Decachlorobiphenyl</i>	89		21 - 136				07/11/17 14:05	07/12/17 16:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		1.4		mg/Kg		07/07/17 08:19	07/07/17 17:09	4
Arsenic	17		2.7		mg/Kg		07/07/17 08:19	07/07/17 17:09	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.075		0.0091		mg/Kg		07/10/17 09:59	07/10/17 12:44	1

Client Sample Results

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-8 (0.5-1)

Lab Sample ID: 720-80493-22

Date Collected: 07/05/17 08:59

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Dieldrin	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Endrin aldehyde	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Endrin	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Endrin ketone	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Heptachlor	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Heptachlor epoxide	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
4,4'-DDT	1900		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
4,4'-DDE	52		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
4,4'-DDD	890		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Endosulfan I	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Endosulfan II	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
alpha-BHC	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
beta-BHC	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
gamma-BHC (Lindane)	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
delta-BHC	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Endosulfan sulfate	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Methoxychlor	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Toxaphene	ND		390		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Chlordane (technical)	ND		390		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
alpha-Chlordane	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
gamma-Chlordane	ND		19		ug/Kg		07/11/17 14:05	07/13/17 17:09	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>Tetrachloro-m-xylene</i>	0	X	21 - 145				07/11/17 14:05	07/13/17 17:09	10
<i>DCB Decachlorobiphenyl</i>	0	X	21 - 136				07/11/17 14:05	07/13/17 17:09	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		1.2		mg/Kg		07/07/17 08:19	07/07/17 17:15	4
Arsenic	2.6		2.4		mg/Kg		07/07/17 08:19	07/07/17 17:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.069		0.0097		mg/Kg		07/10/17 09:59	07/10/17 12:46	1

Surrogate Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (21-145)	DCB1 (21-136)
720-80410-A-11-C MS	Matrix Spike	66	111
720-80410-A-11-D MSD	Matrix Spike Duplicate	69	103
720-80493-16	SB-6 (1-1.5)	94	98
720-80493-22	SB-8 (0.5-1)	0 X	0 X
LCS 720-226343/2-A	Lab Control Sample	98	113
MB 720-226343/1-A	Method Blank	100	109

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (21-145)	DCB2 (21-136)
720-80493-1	SB-1 (0.5-1)	80	110
720-80493-4	SB-2 (1-1.5)	90	123
720-80493-7	SB-3 (0.5-1)	83	132
720-80493-10	SB-4 (0-1)	79	122

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (21-145)	DCB1 (21-136)
720-80493-13	SB-5 (0.5-1)	81	86
720-80493-19	SB-7 (1-1.5)	84	89

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-226343/1-A
Matrix: Solid
Analysis Batch: 226421

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226343

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Dieldrin	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Endrin aldehyde	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Endrin	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Endrin ketone	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Heptachlor	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
4,4'-DDT	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
4,4'-DDE	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
4,4'-DDD	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Endosulfan I	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Endosulfan II	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
alpha-BHC	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
beta-BHC	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
delta-BHC	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Methoxychlor	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Toxaphene	ND		40		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Chlordane (technical)	ND		40		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
alpha-Chlordane	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
gamma-Chlordane	ND		2.0		ug/Kg		07/11/17 09:06	07/12/17 04:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		21 - 145				07/11/17 09:06	07/12/17 04:38	1
DCB Decachlorobiphenyl	109		21 - 136				07/11/17 09:06	07/12/17 04:38	1

Lab Sample ID: LCS 720-226343/2-A
Matrix: Solid
Analysis Batch: 226421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Aldrin	16.7	16.2		ug/Kg		97	65 - 120
Dieldrin	16.7	16.9		ug/Kg		102	72 - 120
Endrin aldehyde	16.7	16.8		ug/Kg		101	68 - 120
Endrin	16.7	17.2		ug/Kg		103	68 - 120
Endrin ketone	16.7	17.6		ug/Kg		105	84 - 133
Heptachlor	16.7	16.7		ug/Kg		100	69 - 120
Heptachlor epoxide	16.7	17.0		ug/Kg		102	68 - 120
4,4'-DDT	16.7	17.4		ug/Kg		104	63 - 127
4,4'-DDE	16.7	17.3		ug/Kg		104	80 - 126
4,4'-DDD	16.7	17.6		ug/Kg		106	83 - 130
Endosulfan I	16.7	17.0		ug/Kg		102	62 - 120
Endosulfan II	16.7	17.1		ug/Kg		102	65 - 120
alpha-BHC	16.7	16.4		ug/Kg		98	62 - 120
beta-BHC	16.7	17.3		ug/Kg		104	78 - 136
gamma-BHC (Lindane)	16.7	16.5		ug/Kg		99	72 - 120
delta-BHC	16.7	16.8		ug/Kg		101	43 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

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

Lab Sample ID: LCS 720-226343/2-A
Matrix: Solid
Analysis Batch: 226421

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226343

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	16.7	17.4		ug/Kg		104	74 - 121
Methoxychlor	16.7	18.2		ug/Kg		109	71 - 132
alpha-Chlordane	16.7	16.9		ug/Kg		101	70 - 120
gamma-Chlordane	16.7	17.1		ug/Kg		103	68 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
<i>Tetrachloro-m-xylene</i>	98		21 - 145				
<i>DCB Decachlorobiphenyl</i>	113		21 - 136				

Lab Sample ID: 720-80410-A-11-C MS
Matrix: Solid
Analysis Batch: 226421

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 226343

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND		16.6	13.5		ug/Kg		81	53 - 120
Dieldrin	ND		16.6	16.1		ug/Kg		97	46 - 130
Endrin aldehyde	ND		16.6	15.7		ug/Kg		95	40 - 120
Endrin	ND		16.6	16.7		ug/Kg		101	32 - 143
Endrin ketone	ND		16.6	17.9		ug/Kg		108	40 - 120
Heptachlor	ND		16.6	13.1		ug/Kg		79	52 - 120
Heptachlor epoxide	ND		16.6	15.8		ug/Kg		95	40 - 120
4,4'-DDT	ND		16.6	18.0		ug/Kg		109	17 - 144
4,4'-DDE	ND		16.6	16.6		ug/Kg		100	40 - 120
4,4'-DDD	ND		16.6	18.0		ug/Kg		108	40 - 120
Endosulfan I	ND		16.6	15.8		ug/Kg		95	40 - 120
Endosulfan II	ND		16.6	16.5		ug/Kg		100	40 - 120
alpha-BHC	ND		16.6	12.7		ug/Kg		76	40 - 120
beta-BHC	ND		16.6	17.0		ug/Kg		102	40 - 120
gamma-BHC (Lindane)	ND		16.6	14.0		ug/Kg		84	58 - 120
delta-BHC	ND		16.6	16.7		ug/Kg		100	40 - 120
Endosulfan sulfate	ND		16.6	17.5		ug/Kg		106	40 - 120
Methoxychlor	ND		16.6	19.2		ug/Kg		116	40 - 120
alpha-Chlordane	ND		16.6	16.1		ug/Kg		97	40 - 120
gamma-Chlordane	ND		16.6	16.1		ug/Kg		97	40 - 120
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
<i>Tetrachloro-m-xylene</i>	66		21 - 145						
<i>DCB Decachlorobiphenyl</i>	111		21 - 136						

Lab Sample ID: 720-80410-A-11-D MSD
Matrix: Solid
Analysis Batch: 226421

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 226343

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aldrin	ND		16.4	13.0		ug/Kg		79	53 - 120	4	20
Dieldrin	ND		16.4	14.3		ug/Kg		87	46 - 130	12	20
Endrin aldehyde	ND		16.4	14.2		ug/Kg		86	40 - 120	10	20
Endrin	ND		16.4	15.2		ug/Kg		93	32 - 143	9	20

TestAmerica Pleasanton

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

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

Lab Sample ID: 720-80410-A-11-D MSD
Matrix: Solid
Analysis Batch: 226421

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 226343

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits	RPD	
Endrin ketone	ND		16.4	16.2		ug/Kg		99	40 - 120	10	20
Heptachlor	ND		16.4	13.0		ug/Kg		79	52 - 120	1	20
Heptachlor epoxide	ND		16.4	14.6		ug/Kg		89	40 - 120	7	20
4,4'-DDT	ND		16.4	16.0		ug/Kg		97	17 - 144	12	20
4,4'-DDE	ND		16.4	14.8		ug/Kg		90	40 - 120	11	20
4,4'-DDD	ND		16.4	16.0		ug/Kg		97	40 - 120	12	20
Endosulfan I	ND		16.4	14.3		ug/Kg		87	40 - 120	10	20
Endosulfan II	ND		16.4	14.6		ug/Kg		89	40 - 120	12	30
alpha-BHC	ND		16.4	12.7		ug/Kg		78	40 - 120	0	20
beta-BHC	ND		16.4	15.7		ug/Kg		95	40 - 120	8	20
gamma-BHC (Lindane)	ND		16.4	13.6		ug/Kg		83	58 - 120	3	20
delta-BHC	ND		16.4	15.4		ug/Kg		94	40 - 120	8	20
Endosulfan sulfate	ND		16.4	15.6		ug/Kg		95	40 - 120	12	20
Methoxychlor	ND		16.4	17.3		ug/Kg		105	40 - 120	10	20
alpha-Chlordane	ND		16.4	14.6		ug/Kg		89	40 - 120	10	20
gamma-Chlordane	ND		16.4	14.5		ug/Kg		89	40 - 120	10	20
		MSD	MSD								
Surrogate		%Recovery	Qualifier	Limits							
Tetrachloro-m-xylene		69		21 - 145							
DCB Decachlorobiphenyl		103		21 - 136							

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-226136/1-A
Matrix: Solid
Analysis Batch: 226206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 226136

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	ND		0.50		mg/Kg		07/07/17 08:19	07/07/17 14:24	1
Arsenic	ND		1.0		mg/Kg		07/07/17 08:19	07/07/17 14:24	1

Lab Sample ID: LCS 720-226136/2-A
Matrix: Solid
Analysis Batch: 226206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 226136

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Lead	50.0	52.5		mg/Kg		105	80 - 120
Arsenic	50.0	51.6		mg/Kg		103	80 - 120

Lab Sample ID: 720-80493-10 MS
Matrix: Solid
Analysis Batch: 226206

Client Sample ID: SB-4 (0-1)
Prep Type: Total/NA
Prep Batch: 226136

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Lead	39	F1	43.5	65.8	F1	mg/Kg		61	75 - 125
Arsenic	5.0		43.5	48.1		mg/Kg		99	75 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

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

Lab Sample ID: 720-80493-10 MSD
 Matrix: Solid
 Analysis Batch: 226206

Client Sample ID: SB-4 (0-1)
 Prep Type: Total/NA
 Prep Batch: 226136

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Lead	39	F1	43.5	60.2	F1	mg/Kg		48	75 - 125	9	20
Arsenic	5.0		43.5	48.9		mg/Kg		101	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-226112/1-A
 Matrix: Solid
 Analysis Batch: 226280

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 226112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		07/10/17 09:59	07/10/17 11:52	1

Lab Sample ID: LCS 720-226112/2-A
 Matrix: Solid
 Analysis Batch: 226280

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 226112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	0.833	0.720		mg/Kg		86	80 - 120

Lab Sample ID: 720-80451-A-5-C MS
 Matrix: Solid
 Analysis Batch: 226280

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 226112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Mercury	0.13		0.735	0.831		mg/Kg		96	75 - 125

Lab Sample ID: 720-80451-A-5-D MSD
 Matrix: Solid
 Analysis Batch: 226280

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 226112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	Limits	RPD	RPD Limit
Mercury	0.13		0.735	0.787		mg/Kg		90	75 - 125	5	20

QC Association Summary

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

GC Semi VOA

Prep Batch: 226343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-1	SB-1 (0.5-1)	Total/NA	Solid	3546	
720-80493-4	SB-2 (1-1.5)	Total/NA	Solid	3546	
720-80493-7	SB-3 (0.5-1)	Total/NA	Solid	3546	
720-80493-10	SB-4 (0-1)	Total/NA	Solid	3546	
720-80493-13	SB-5 (0.5-1)	Total/NA	Solid	3546	
720-80493-16	SB-6 (1-1.5)	Total/NA	Solid	3546	
720-80493-19	SB-7 (1-1.5)	Total/NA	Solid	3546	
720-80493-22	SB-8 (0.5-1)	Total/NA	Solid	3546	
MB 720-226343/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-226343/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-80410-A-11-C MS	Matrix Spike	Total/NA	Solid	3546	
720-80410-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 226421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-226343/1-A	Method Blank	Total/NA	Solid	8081A	226343
LCS 720-226343/2-A	Lab Control Sample	Total/NA	Solid	8081A	226343
720-80410-A-11-C MS	Matrix Spike	Total/NA	Solid	8081A	226343
720-80410-A-11-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	226343

Analysis Batch: 226429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-1	SB-1 (0.5-1)	Total/NA	Solid	8081A	226343
720-80493-4	SB-2 (1-1.5)	Total/NA	Solid	8081A	226343
720-80493-7	SB-3 (0.5-1)	Total/NA	Solid	8081A	226343
720-80493-10	SB-4 (0-1)	Total/NA	Solid	8081A	226343
720-80493-13	SB-5 (0.5-1)	Total/NA	Solid	8081A	226343
720-80493-16	SB-6 (1-1.5)	Total/NA	Solid	8081A	226343
720-80493-19	SB-7 (1-1.5)	Total/NA	Solid	8081A	226343

Analysis Batch: 226509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-22	SB-8 (0.5-1)	Total/NA	Solid	8081A	226343

Metals

Prep Batch: 226112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-1	SB-1 (0.5-1)	Total/NA	Solid	7471A	
720-80493-4	SB-2 (1-1.5)	Total/NA	Solid	7471A	
720-80493-7	SB-3 (0.5-1)	Total/NA	Solid	7471A	
720-80493-10	SB-4 (0-1)	Total/NA	Solid	7471A	
720-80493-13	SB-5 (0.5-1)	Total/NA	Solid	7471A	
720-80493-16	SB-6 (1-1.5)	Total/NA	Solid	7471A	
720-80493-19	SB-7 (1-1.5)	Total/NA	Solid	7471A	
720-80493-22	SB-8 (0.5-1)	Total/NA	Solid	7471A	
MB 720-226112/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-226112/2-A	Lab Control Sample	Total/NA	Solid	7471A	
720-80451-A-5-C MS	Matrix Spike	Total/NA	Solid	7471A	
720-80451-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

TestAmerica Pleasanton

QC Association Summary

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Metals (Continued)

Prep Batch: 226136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-1	SB-1 (0.5-1)	Total/NA	Solid	3050B	
720-80493-4	SB-2 (1-1.5)	Total/NA	Solid	3050B	
720-80493-7	SB-3 (0.5-1)	Total/NA	Solid	3050B	
720-80493-10	SB-4 (0-1)	Total/NA	Solid	3050B	
720-80493-13	SB-5 (0.5-1)	Total/NA	Solid	3050B	
720-80493-16	SB-6 (1-1.5)	Total/NA	Solid	3050B	
720-80493-19	SB-7 (1-1.5)	Total/NA	Solid	3050B	
720-80493-22	SB-8 (0.5-1)	Total/NA	Solid	3050B	
MB 720-226136/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-226136/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-80493-10 MS	SB-4 (0-1)	Total/NA	Solid	3050B	
720-80493-10 MSD	SB-4 (0-1)	Total/NA	Solid	3050B	

Analysis Batch: 226206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-10	SB-4 (0-1)	Total/NA	Solid	6010B	226136
MB 720-226136/1-A	Method Blank	Total/NA	Solid	6010B	226136
LCS 720-226136/2-A	Lab Control Sample	Total/NA	Solid	6010B	226136
720-80493-10 MS	SB-4 (0-1)	Total/NA	Solid	6010B	226136
720-80493-10 MSD	SB-4 (0-1)	Total/NA	Solid	6010B	226136

Analysis Batch: 226236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-1	SB-1 (0.5-1)	Total/NA	Solid	6010B	226136
720-80493-4	SB-2 (1-1.5)	Total/NA	Solid	6010B	226136
720-80493-7	SB-3 (0.5-1)	Total/NA	Solid	6010B	226136
720-80493-13	SB-5 (0.5-1)	Total/NA	Solid	6010B	226136
720-80493-16	SB-6 (1-1.5)	Total/NA	Solid	6010B	226136
720-80493-19	SB-7 (1-1.5)	Total/NA	Solid	6010B	226136
720-80493-22	SB-8 (0.5-1)	Total/NA	Solid	6010B	226136

Analysis Batch: 226280

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-1	SB-1 (0.5-1)	Total/NA	Solid	7471A	226112
720-80493-4	SB-2 (1-1.5)	Total/NA	Solid	7471A	226112
720-80493-7	SB-3 (0.5-1)	Total/NA	Solid	7471A	226112
720-80493-10	SB-4 (0-1)	Total/NA	Solid	7471A	226112
720-80493-13	SB-5 (0.5-1)	Total/NA	Solid	7471A	226112
720-80493-16	SB-6 (1-1.5)	Total/NA	Solid	7471A	226112
720-80493-19	SB-7 (1-1.5)	Total/NA	Solid	7471A	226112
720-80493-22	SB-8 (0.5-1)	Total/NA	Solid	7471A	226112
MB 720-226112/1-A	Method Blank	Total/NA	Solid	7471A	226112
LCS 720-226112/2-A	Lab Control Sample	Total/NA	Solid	7471A	226112
720-80451-A-5-C MS	Matrix Spike	Total/NA	Solid	7471A	226112
720-80451-A-5-D MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	226112

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-1 (0.5-1)

Date Collected: 07/05/17 09:24

Date Received: 07/05/17 18:23

Lab Sample ID: 720-80493-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 15:14	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 16:43	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:29	OBI	TAL PLS

Client Sample ID: SB-2 (1-1.5)

Date Collected: 07/05/17 09:12

Date Received: 07/05/17 18:23

Lab Sample ID: 720-80493-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 15:31	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 16:48	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:31	OBI	TAL PLS

Client Sample ID: SB-3 (0.5-1)

Date Collected: 07/05/17 09:34

Date Received: 07/05/17 18:23

Lab Sample ID: 720-80493-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 15:49	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 16:53	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:34	OBI	TAL PLS

Client Sample ID: SB-4 (0-1)

Date Collected: 07/05/17 10:05

Date Received: 07/05/17 18:23

Lab Sample ID: 720-80493-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 16:06	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226206	07/07/17 14:47	ASB	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:36	OBI	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Client Sample ID: SB-5 (0.5-1)

Lab Sample ID: 720-80493-13

Date Collected: 07/05/17 08:40

Matrix: Solid

Date Received: 07/05/17 18:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 16:24	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 16:59	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:39	OBI	TAL PLS

Client Sample ID: SB-6 (1-1.5)

Lab Sample ID: 720-80493-16

Date Collected: 07/05/17 08:10

Matrix: Solid

Date Received: 07/05/17 18:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 16:41	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 17:04	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:42	OBI	TAL PLS

Client Sample ID: SB-7 (1-1.5)

Lab Sample ID: 720-80493-19

Date Collected: 07/05/17 08:26

Matrix: Solid

Date Received: 07/05/17 18:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		1	226429	07/12/17 16:59	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 17:09	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:44	OBI	TAL PLS

Client Sample ID: SB-8 (0.5-1)

Lab Sample ID: 720-80493-22

Date Collected: 07/05/17 08:59

Matrix: Solid

Date Received: 07/05/17 18:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			226343	07/11/17 14:05	JEV	TAL PLS
Total/NA	Analysis	8081A		10	226509	07/13/17 17:09	MQL	TAL PLS
Total/NA	Prep	3050B			226136	07/07/17 08:19	AJS	TAL PLS
Total/NA	Analysis	6010B		4	226236	07/07/17 17:15	BKR	TAL PLS
Total/NA	Prep	7471A			226112	07/10/17 09:59	AJS	TAL PLS
Total/NA	Analysis	7471A		1	226280	07/10/17 12:46	OBI	TAL PLS

TestAmerica Pleasanton

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

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Accreditation/Certification Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Laboratory: TestAmerica Pleasanton

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	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-80493-1	SB-1 (0.5-1)	Solid	07/05/17 09:24	07/05/17 18:23
720-80493-4	SB-2 (1-1.5)	Solid	07/05/17 09:12	07/05/17 18:23
720-80493-7	SB-3 (0.5-1)	Solid	07/05/17 09:34	07/05/17 18:23
720-80493-10	SB-4 (0-1)	Solid	07/05/17 10:05	07/05/17 18:23
720-80493-13	SB-5 (0.5-1)	Solid	07/05/17 08:40	07/05/17 18:23
720-80493-16	SB-6 (1-1.5)	Solid	07/05/17 08:10	07/05/17 18:23
720-80493-19	SB-7 (1-1.5)	Solid	07/05/17 08:26	07/05/17 18:23
720-80493-22	SB-8 (0.5-1)	Solid	07/05/17 08:59	07/05/17 18:23





**CORNERSTONE
EARTH GROUP**

720-80493
Chain of Custody Record

ref # 176881

Project Manager: Kurt Soenen		Tel/Fax: 408-245-4600 ext. 101		Site Sampler: NPB		Date: 07/05/2017		COC No. 1 of 2 COCs	
Project Name: 3035 El Camino Real PH II		Analysis Turnaround Time		Lab Contact: Afanesh Salimpour		Lab: Test America		Laboratory's Job No.	
Sunnyvale, California 94085		TAT if different from Below		As, Pb, Hg (6010B/7471A)		720-80493 Chain of Custody		Laboratory's Sample Specific Notes:	
(408) 245-4600 Phone		1 week		Filtered Sample		HOLD			
(408) 245-4620 FAX		3 days		OCs (8081A)					
Site: 3035 El Camino Real, Santa Clara, CA		2 days		As, Pb, Hg (6010B/7471A)					
Project Number: 851-1-2		1 day							
Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Received by:	Date/Time:	Company:	Date/Time:
SR-1 (0.5-1)	7/5/17	9:24	Liver	soil	1	[Signature]	7/5/17 12:00	TA	7/5/17 15:23
SR-1 (3-3.5)		9:25							
SR-1 (4.5-5)		9:26							
SR-2 (1-1.5)		9:12							
SR-2 (3-3.5)		9:13							
SR-2 (4.5-5)		9:14							
SR-3 (0.5-1)		9:34							
SR-3 (3-3.5)		9:35							
SR-3 (4.5-5)		9:36							
SR-4 (0-1)		10:05							
SR-4 (2-3)		10:07							
SR-4 (4-5)		10:10							

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other

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

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please return results to ksoenen@cornerstoneearth.com and mbretner@cornerstoneearth.com

Relinquished by: [Signature] Company: Cornerstone Earth Group Date/Time: 7/5/17 12:00

Relinquished by: [Signature] Company: TA Date/Time: 7/5/17 16:40

Relinquished by: [Signature] Company: TA Date/Time: 7/5/17 16:40



Chain of Custody Record

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Cornerstone Earth Group, Inc.		Project Manager: Kurt Soenen		Site Sampler: NPB		Date: 07/05/2017		COC No. 1	
1259 Oakmead Pkwy		Tel/Fax: 408-245-4600 ext. 101		Lab Contact: Araneh Salimpour		Lab: Test America		2 of 2 COCs	
Sunnyvale, California 94085		Analysis Turnaround Time						Laboratory's Job No.	
(408) 245-4600 Phone		TAT If different from Below							
(408) 245-4620 FAX		<input type="checkbox"/> 1 week <input type="checkbox"/> 3 days <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Name: 3035 El Camino Real PH II									
Site: 3035 El Camino Real, Santa Clara, CA									
Project Number: 851-1-2									

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample		HOLD	Laboratory's Sample Specific Notes:
						OCPs (8081A)	As, Pb, Hg (6010B/7471A)		
SR-5 (0.5-1)	7/5/17	8:40	Liver	Soil	1	X	X		
SR-5 (3-3.5)		8:41				X	X		
SR-5 (4-4.5)		8:42				X	X		
SR-6 (1-1.5)		8:10	Liver			X	X		
SR-6 (3-3.5)		8:12				X	X		
SR-6 (4.5-5)		8:13				X	X		
SR-7 (1-1.5)		8:26				X	X		
SR-7 (3-3.5)		8:27				X	X		
SR-7 (4.5-5)		8:29				X	X		
SR-8 (0.5-1)		8:59				X	X		
SR-8 (2.5-3)		4:02				X	X		
SR-8 (4.5-5)		4:03				X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4= HNO3; 5= NaOH; 6= Other

Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown

Special Instructions/QC Requirements & Comments: If additional sample is needed, please use the liner. Please return results to ksoenen@cornerstoneearth.com and mbretmer@cornerstoneearth.com

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Cornerstone Earth Group	7/5/17 12:00		TA	7/17 15:00
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TA	7/5/17 16:40		TA	05/07/17 16:40

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-80493-1

Login Number: 80493
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Pleasanton

1220 Quarry Lane

Pleasanton, CA 94566

Tel: (925)484-1919

TestAmerica Job ID: 720-80493-2

Client Project/Site: 3035 El Camino Real PH II

For:

Cornerstone Earth Group

1259 Oakmead Parkway

Sunnyvale, California 94085

Attn: Kurt Soenen



Authorized for release by:

7/27/2017 12:10:35 PM

Afsaneh Salimpour, Senior Project Manager

(925)484-1919

afsaneh.salimpour@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

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

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

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Definitions/Glossary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Case Narrative

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Job ID: 720-80493-2

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative 720-80493-2

Comments

No additional comments.

Receipt

The samples were received on 7/5/2017 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.8° C.

GC Semi VOA

Method(s) 8081A: The following sample was analyzed outside of analytical holding time. Sample SB-8(2.5-3)

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

Metals

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

Organic Prep

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

Detection Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Client Sample ID: SB-8 (2.5-3)

Lab Sample ID: 720-80493-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.8	F1	1.6		mg/Kg	4		6010B	Total/NA

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This Detection Summary does not include radiochemical test results.

TestAmerica Pleasanton

Client Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Client Sample ID: SB-8 (2.5-3)

Lab Sample ID: 720-80493-23

Date Collected: 07/05/17 09:02

Matrix: Solid

Date Received: 07/05/17 18:23

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Dieldrin	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Endrin aldehyde	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Endrin	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Endrin ketone	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Heptachlor	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Heptachlor epoxide	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
4,4'-DDT	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
4,4'-DDE	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
4,4'-DDD	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Endosulfan I	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Endosulfan II	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
alpha-BHC	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
beta-BHC	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
gamma-BHC (Lindane)	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
delta-BHC	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Endosulfan sulfate	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Methoxychlor	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Toxaphene	ND	H	39		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Chlordane (technical)	ND	H	39		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
alpha-Chlordane	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
gamma-Chlordane	ND	H	2.0		ug/Kg		07/25/17 09:06	07/26/17 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		21 - 145				07/25/17 09:06	07/26/17 11:13	1
DCB Decachlorobiphenyl	105		21 - 136				07/25/17 09:06	07/26/17 11:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.8	F1	1.6		mg/Kg		07/24/17 16:23	07/26/17 11:13	4

Surrogate Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (21-145)	DCB1 (21-136)
720-80493-23	SB-8 (2.5-3)	74	105
720-80817-A-1-B MS	Matrix Spike	74	117
720-80817-A-1-C MSD	Matrix Spike Duplicate	100	122
LCS 720-227131/2-A	Lab Control Sample	94	103
MB 720-227131/1-A	Method Blank	94	97

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-227131/1-A

Matrix: Solid

Analysis Batch: 227188

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 227131

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Dieldrin	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Endrin aldehyde	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Endrin	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Endrin ketone	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Heptachlor	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Heptachlor epoxide	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
4,4'-DDT	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
4,4'-DDE	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
4,4'-DDD	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Endosulfan I	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Endosulfan II	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
alpha-BHC	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
beta-BHC	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
delta-BHC	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Endosulfan sulfate	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Methoxychlor	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Toxaphene	ND		40		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
Chlordane (technical)	ND		40		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
alpha-Chlordane	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1
gamma-Chlordane	ND		2.0		ug/Kg		07/25/17 09:06	07/26/17 08:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	94		21 - 145	07/25/17 09:06	07/26/17 08:08	1
DCB Decachlorobiphenyl	97		21 - 136	07/25/17 09:06	07/26/17 08:08	1

Lab Sample ID: LCS 720-227131/2-A

Matrix: Solid

Analysis Batch: 227188

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 227131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	14.4		ug/Kg		86	65 - 120
Dieldrin	16.7	16.9		ug/Kg		102	72 - 120
Endrin aldehyde	16.7	17.2		ug/Kg		103	68 - 120
Endrin	16.7	18.0		ug/Kg		108	68 - 120
Endrin ketone	16.7	17.3		ug/Kg		104	84 - 133
Heptachlor	16.7	16.9		ug/Kg		102	69 - 120
Heptachlor epoxide	16.7	17.2		ug/Kg		103	68 - 120
4,4'-DDT	16.7	17.1		ug/Kg		102	63 - 127
4,4'-DDE	16.7	17.4		ug/Kg		104	80 - 126
4,4'-DDD	16.7	17.7		ug/Kg		106	83 - 130
Endosulfan I	16.7	17.4		ug/Kg		104	62 - 120
Endosulfan II	16.7	17.4		ug/Kg		104	65 - 120
alpha-BHC	16.7	15.7		ug/Kg		94	62 - 120
beta-BHC	16.7	17.7		ug/Kg		106	78 - 136
gamma-BHC (Lindane)	16.7	16.1		ug/Kg		97	72 - 120
delta-BHC	16.7	16.0		ug/Kg		96	43 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

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

Lab Sample ID: LCS 720-227131/2-A

Matrix: Solid

Analysis Batch: 227188

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 227131

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	16.7	17.1		ug/Kg		103	74 - 121
Methoxychlor	16.7	18.7		ug/Kg		112	71 - 132
alpha-Chlordane	16.7	17.1		ug/Kg		103	70 - 120
gamma-Chlordane	16.7	17.0		ug/Kg		102	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	94		21 - 145
DCB Decachlorobiphenyl	103		21 - 136

Lab Sample ID: 720-80817-A-1-B MS

Matrix: Solid

Analysis Batch: 227188

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 227131

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	ND	F2	16.4	14.1		ug/Kg		86	53 - 120
Dieldrin	ND		16.4	15.6		ug/Kg		95	46 - 130
Endrin aldehyde	ND		16.4	15.9		ug/Kg		97	40 - 120
Endrin	ND	F2	16.4	16.4		ug/Kg		100	32 - 143
Endrin ketone	ND		16.4	15.7		ug/Kg		95	40 - 120
Heptachlor	ND	F2	16.4	14.7		ug/Kg		89	52 - 120
Heptachlor epoxide	ND	F1 F2	16.4	16.9		ug/Kg		93	40 - 120
4,4'-DDT	ND	F2	16.4	17.9		ug/Kg		109	17 - 144
4,4'-DDE	ND		16.4	16.0		ug/Kg		97	40 - 120
4,4'-DDD	ND	F1 F2	16.4	18.2		ug/Kg		111	40 - 120
Endosulfan I	ND		16.4	16.0		ug/Kg		97	40 - 120
Endosulfan II	ND		16.4	15.3		ug/Kg		93	40 - 120
alpha-BHC	ND	F2	16.4	13.4		ug/Kg		82	40 - 120
beta-BHC	ND		16.4	16.9		ug/Kg		103	40 - 120
gamma-BHC (Lindane)	ND	F2	16.4	14.3		ug/Kg		87	58 - 120
delta-BHC	ND		16.4	15.7		ug/Kg		96	40 - 120
Endosulfan sulfate	ND	F1	16.4	16.3		ug/Kg		99	40 - 120
Methoxychlor	ND	F1	16.4	18.7		ug/Kg		114	40 - 120
alpha-Chlordane	6.2	p F1 F2	16.4	29.0	F1	ug/Kg		139	40 - 120
gamma-Chlordane	7.6	F1 F2	16.4	27.7	F1	ug/Kg		122	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	74		21 - 145
DCB Decachlorobiphenyl	117		21 - 136

Lab Sample ID: 720-80817-A-1-C MSD

Matrix: Solid

Analysis Batch: 227188

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 227131

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aldrin	ND	F2	16.4	18.3	F2	ug/Kg		111	53 - 120	26	20
Dieldrin	ND		16.4	18.6		ug/Kg		113	46 - 130	18	20
Endrin aldehyde	ND		16.4	19.1		ug/Kg		116	40 - 120	18	20
Endrin	ND	F2	16.4	20.4	F2	ug/Kg		124	32 - 143	22	20

TestAmerica Pleasanton

QC Sample Results

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

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

Lab Sample ID: 720-80817-A-1-C MSD
Matrix: Solid
Analysis Batch: 227188

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 227131

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Endrin ketone	ND		16.4	19.0		ug/Kg		116	40 - 120	19	20
Heptachlor	ND	F2	16.4	19.1	F2	ug/Kg		116	52 - 120	26	20
Heptachlor epoxide	ND	F1 F2	16.4	26.0	F1 F2	ug/Kg		149	40 - 120	42	20
4,4'-DDT	ND	F2	16.4	23.3	F2	ug/Kg		142	17 - 144	26	20
4,4'-DDE	ND		16.4	18.8		ug/Kg		115	40 - 120	16	20
4,4'-DDD	ND	F1 F2	16.4	22.4	F1 F2	ug/Kg		136	40 - 120	21	20
Endosulfan I	ND		16.4	18.6		ug/Kg		113	40 - 120	15	20
Endosulfan II	ND		16.4	19.5		ug/Kg		119	40 - 120	24	30
alpha-BHC	ND	F2	16.4	17.2	F2	ug/Kg		105	40 - 120	25	20
beta-BHC	ND		16.4	20.3	F1	ug/Kg		123	40 - 120	18	20
gamma-BHC (Lindane)	ND	F2	16.4	17.7	F2	ug/Kg		108	58 - 120	21	20
delta-BHC	ND		16.4	17.8		ug/Kg		109	40 - 120	13	20
Endosulfan sulfate	ND	F1	16.4	19.8	F1	ug/Kg		121	40 - 120	20	20
Methoxychlor	ND	F1	16.4	19.9	F1	ug/Kg		121	40 - 120	6	20
alpha-Chlordane	6.2	p F1 F2	16.4	64.0	F1 F2	ug/Kg		352	40 - 120	75	20
gamma-Chlordane	7.6	F1 F2	16.4	68.5	F1 F2	ug/Kg		371	40 - 120	85	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	100		21 - 145
DCB Decachlorobiphenyl	122		21 - 136

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-227102/1-A
Matrix: Solid
Analysis Batch: 227241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.50		mg/Kg		07/24/17 16:23	07/26/17 10:50	1

Lab Sample ID: LCS 720-227102/2-A
Matrix: Solid
Analysis Batch: 227241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 227102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	50.0	51.6		mg/Kg		103	80 - 120

Lab Sample ID: 720-80493-23 MS
Matrix: Solid
Analysis Batch: 227241

Client Sample ID: SB-8 (2.5-3)
Prep Type: Total/NA
Prep Batch: 227102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	9.8	F1	40.3	62.7	F1	mg/Kg		131	75 - 125

TestAmerica Pleasanton

QC Sample Results

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

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

Lab Sample ID: 720-80493-23 MSD
 Matrix: Solid
 Analysis Batch: 227241

Client Sample ID: SB-8 (2.5-3)
 Prep Type: Total/NA
 Prep Batch: 227102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	9.8	F1	41.7	62.6	F1	mg/Kg		127	75 - 125	0	20

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QC Association Summary

Client: Cornerstone Earth Group
 Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

GC Semi VOA

Prep Batch: 227131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-23	SB-8 (2.5-3)	Total/NA	Solid	3546	
MB 720-227131/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-227131/2-A	Lab Control Sample	Total/NA	Solid	3546	
720-80817-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
720-80817-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 227188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-23	SB-8 (2.5-3)	Total/NA	Solid	8081A	227131
MB 720-227131/1-A	Method Blank	Total/NA	Solid	8081A	227131
LCS 720-227131/2-A	Lab Control Sample	Total/NA	Solid	8081A	227131
720-80817-A-1-B MS	Matrix Spike	Total/NA	Solid	8081A	227131
720-80817-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	227131

Metals

Prep Batch: 227102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-23	SB-8 (2.5-3)	Total/NA	Solid	3050B	
MB 720-227102/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-227102/2-A	Lab Control Sample	Total/NA	Solid	3050B	
720-80493-23 MS	SB-8 (2.5-3)	Total/NA	Solid	3050B	
720-80493-23 MSD	SB-8 (2.5-3)	Total/NA	Solid	3050B	

Analysis Batch: 227241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-80493-23	SB-8 (2.5-3)	Total/NA	Solid	6010B	227102
MB 720-227102/1-A	Method Blank	Total/NA	Solid	6010B	227102
LCS 720-227102/2-A	Lab Control Sample	Total/NA	Solid	6010B	227102
720-80493-23 MS	SB-8 (2.5-3)	Total/NA	Solid	6010B	227102
720-80493-23 MSD	SB-8 (2.5-3)	Total/NA	Solid	6010B	227102

Lab Chronicle

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Client Sample ID: SB-8 (2.5-3)

Lab Sample ID: 720-80493-23

Date Collected: 07/05/17 09:02

Matrix: Solid

Date Received: 07/05/17 18:23

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			227131	07/25/17 09:06	JEV	TAL PLS
Total/NA	Analysis	8081A		1	227188	07/26/17 11:13	MQL	TAL PLS
Total/NA	Prep	3050B			227102	07/24/17 16:23	AAP	TAL PLS
Total/NA	Analysis	6010B		4	227241	07/26/17 11:13	BKR	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Accreditation/Certification Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Laboratory: TestAmerica Pleasanton

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	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte
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Method Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS

Protocol References:

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

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919



Sample Summary

Client: Cornerstone Earth Group
Project/Site: 3035 El Camino Real PH II

TestAmerica Job ID: 720-80493-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-80493-23	SB-8 (2.5-3)	Solid	07/05/17 09:02	07/05/17 18:23

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720-80493-2

Salimpour, Afsaneh

From: Nicholas P. Brettner <nbrettner@cornerstoneearth.com>
Sent: Monday, July 24, 2017 1:16 PM
To: Salimpour, Afsaneh
Subject: RE: TestAmerica EDD and report files from 720-80493-1 3035 El Camino Real PH II

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Afsaneh,

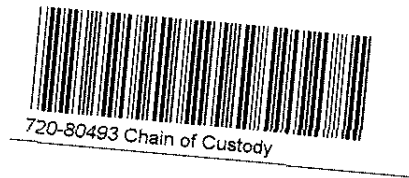
Please begin analysis of Sample SB-8 (2.5-3) for OCPs and Pb on a 3-day TAT. Thank you.

Sincerely,

Nicholas P. Brettner
Staff Geologist



1259 Oakmead Parkway | Sunnyvale, CA 94085
1270 Springbrook Road, Suite 101 | Walnut Creek, CA 94597
T 408 245 4600, Ext. 138 | C 408.655.3526
E nbrettner@cornerstoneearth.com



From: Salimpour, Afsaneh [<mailto:afsaneh.salimpour@testamericainc.com>]
Sent: Friday, July 14, 2017 5:16 PM
To: Kurt M. Soenen <ksoenen@cornerstoneearth.com>; Nicholas P. Brettner <nbrettner@cornerstoneearth.com>
Subject: TestAmerica EDD and report files from 720-80493-1 3035 El Camino Real PH II

MUSH

Hello,

Attached please find the EDD and report files for job 720-80493-1; 3035 El Camino Real PH II

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: [Project Feedback](#)

AFSANEH SALIMPOUR
Senior Project Manager

TestAmerica Pleasanton
THE LEADER IN ENVIRONMENTAL TESTING

Login Sample Receipt Checklist

Client: Cornerstone Earth Group

Job Number: 720-80493-2

Login Number: 80493

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Arauz, Dennis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



95% UCL CALCULATION SHEETS

arsenic	d_arsenic
4.6	1
14	1
10	1
5	1
4.3	1
6.1	1
17	1
2.6	1

A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Data Sets with Non-Detects										
2											
3	User Selected Options										
4	Date/Time of Computation		8/23/2017 3:56:45 PM								
5	From File		851-1-2 ProUCL Input Worksheet.xls								
6	Full Precision		OFF								
7	Confidence Coefficient		95%								
8	Number of Bootstrap Operations		2000								
9											
10											
11	arsenic										
12											
13	General Statistics										
14	Total Number of Observations			8		Number of Distinct Observations			8		
15						Number of Missing Observations			0		
16	Minimum			2.6		Mean			7.95		
17	Maximum			17		Median			5.55		
18	SD			5.182		Std. Error of Mean			1.832		
19	Coefficient of Variation			0.652		Skewness			0.958		
20											
21	Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use										
22	guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.										
23	For example, you may want to use Chebyshev UCL to estimate EPC (ITRC, 2012).										
24	Chebyshev UCL can be computed using the Nonparametric and All UCL Options of ProUCL 5.0										
25											
26	Normal GOF Test										
27	Shapiro Wilk Test Statistic			0.87		Shapiro Wilk GOF Test					
28	5% Shapiro Wilk Critical Value			0.818		Data appear Normal at 5% Significance Level					
29	Lilliefors Test Statistic			0.264		Lilliefors GOF Test					
30	5% Lilliefors Critical Value			0.313		Data appear Normal at 5% Significance Level					
31	Data appear Normal at 5% Significance Level										
32											
33	Assuming Normal Distribution										
34	95% Normal UCL					95% UCLs (Adjusted for Skewness)					
35	95% Student's-t UCL			11.42		95% Adjusted-CLT UCL (Chen-1995)			11.63		
36						95% Modified-t UCL (Johnson-1978)			11.52		
37											
38	Gamma GOF Test										
39	A-D Test Statistic			0.376		Anderson-Darling Gamma GOF Test					
40	5% A-D Critical Value			0.722		Detected data appear Gamma Distributed at 5% Significance Level					
41	K-S Test Statistic			0.217		Kolmogrov-Smirnoff Gamma GOF Test					
42	5% K-S Critical Value			0.296		Detected data appear Gamma Distributed at 5% Significance Level					
43	Detected data appear Gamma Distributed at 5% Significance Level										
44											
45	Gamma Statistics										
46	k hat (MLE)			2.91		k star (bias corrected MLE)			1.902		
47	Theta hat (MLE)			2.732		Theta star (bias corrected MLE)			4.18		
48	nu hat (MLE)			46.55		nu star (bias corrected)			30.43		
49	MLE Mean (bias corrected)			7.95		MLE Sd (bias corrected)			5.765		
50						Approximate Chi Square Value (0.05)			18.83		
51	Adjusted Level of Significance			0.0195		Adjusted Chi Square Value			16.56		
52											

	A	B	C	D	E	F	G	H	I	J	K	L
53	Assuming Gamma Distribution											
54	95% Approximate Gamma UCL (use when n>=50))				12.85		95% Adjusted Gamma UCL (use when n<50)				14.6	
55												
56	Lognormal GOF Test											
57	Shapiro Wilk Test Statistic				0.947		Shapiro Wilk Lognormal GOF Test					
58	5% Shapiro Wilk Critical Value				0.818		Data appear Lognormal at 5% Significance Level					
59	Lilliefors Test Statistic				0.177		Lilliefors Lognormal GOF Test					
60	5% Lilliefors Critical Value				0.313		Data appear Lognormal at 5% Significance Level					
61	Data appear Lognormal at 5% Significance Level											
62												
63	Lognormal Statistics											
64	Minimum of Logged Data				0.956		Mean of logged Data				1.892	
65	Maximum of Logged Data				2.833		SD of logged Data				0.643	
66												
67	Assuming Lognormal Distribution											
68	95% H-UCL		15.42		90% Chebyshev (MVUE) UCL				13.4			
69	95% Chebyshev (MVUE) UCL		15.89		97.5% Chebyshev (MVUE) UCL				19.33			
70	99% Chebyshev (MVUE) UCL		26.1									
71												
72	Nonparametric Distribution Free UCL Statistics											
73	Data appear to follow a Discernible Distribution at 5% Significance Level											
74												
75	Nonparametric Distribution Free UCLs											
76	95% CLT UCL		10.96		95% Jackknife UCL				11.42			
77	95% Standard Bootstrap UCL		10.66		95% Bootstrap-t UCL				14.42			
78	95% Hall's Bootstrap UCL		11.99		95% Percentile Bootstrap UCL				10.78			
79	95% BCA Bootstrap UCL		11.34									
80	90% Chebyshev(Mean, Sd) UCL		13.45		95% Chebyshev(Mean, Sd) UCL				15.94			
81	97.5% Chebyshev(Mean, Sd) UCL		19.39		99% Chebyshev(Mean, Sd) UCL				26.18			
82												
83	Suggested UCL to Use											
84	95% Student's-t UCL		11.42									
85												
86	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.											
87	These recommendations are based upon the results of the simulation studies summarized in Singh, Singh, and Iaci (2002)											
88	and Singh and Singh (2003). However, simulations results will not cover all Real World data sets.											
89	For additional insight the user may want to consult a statistician.											
90												