Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

TRANSMITTAL

To: Santa Monica-Malibu Unified School District
c/o Massetti Consulting, LLC
2828 4th Street
Santa Monica, California 90405

Date: September 10, 2018

Project No. 11382.005

Attention: Mr. Kevin Klaus

Transmitted:		The Following:		For:	
____	Golden State Overnight	____	Draft Report	__X__	Your Use
____	Courier	__X__	Final Report	____	As Requested
____	Pick Up	____	Extra Report		
__X__	E-Mail	____	Proposal		
		____	Other		

Subject: Results of Screening Level Soil Sampling, Former Building A and B/C Locations, Santa Monica Malibu Unified School District, Malibu Middle and High School, 30215 Morning View Dr., Malibu, California 90265

LEIGHTON CONSULTING, INC.

By: Kevin Bryan

Distribution: (1) Addressee via email

RESULTS OF SCREENING LEVEL SOIL SAMPLING FORMER BUILDINGS A AND B/C LOCATIONS SANTA MONICA MALIBU UNIFIED SCHOOL DISTRICT MALIBU MIDDLE AND HIGH SCHOOL 30215 MORNING VIEW DR., MALIBU, CALIFORNIA 90265

Prepared for:

Santa Monica-Malibu Unified School District

c/o Massetti Consulting, LLC
2828 4th Street
Santa Monica, California 90405

Project No. 11382.005

September 10, 2018

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

Leighton Consulting, Inc.
A LEIGHTON GROUP COMPANY

September 10, 2018

Project No. 11382.005

Santa Monica-Malibu Unified School District
c/o Massetti Consulting, LLC
2828 4th Street
Santa Monica, California 90405

Attention: Mr. Kevin Klaus

Subject: Results of Screening Level Soil Sampling, Former Buildings A and B/C Locations, Santa Monica Malibu Unified School District, Malibu Middle and High School, 30215 Morning View Dr., Malibu, California 90265

Introduction

Leighton Consulting, Inc. (Leighton) provides this report to the Santa Monica-Malibu Unified School District (the District or SMMUSD) summarizing analytical results for soil samples collected at the former locations of Buildings A and B/C at the Malibu Middle and High School (the Site) located at 30215 Morning View Dr., Malibu, California 90265 (Figure 1). The approximate project boundary and soil sample locations are shown in Figure 2.

Background

Numerous reports by others have documented the presence, and remediation/encapsulation of polychlorinated biphenyls (PCBs) in building materials in many of the school buildings at the Site constructed in the 1960's. In preparation of the sampling activities Leighton reviewed the information provided in the project Memorandum prepared by ENVIRON International Corporation (ENVIRON) dated September 23, 2014 entitled: "Final Summary of Soil, Soil Vapor, and Groundwater Sampling Results Malibu High School, 30125 Morning View Drive, Malibu California. The Environ Memorandum presents all validated, soil, soil vapor, and groundwater

25570 Rye Canyon Road, Suite G ▪ Santa Clarita, CA 91355
661.257.7434 ▪ 661.257.7430 Fax ▪ www.leightongroup.com

analytical data collected from Malibu Middle High School (MMHS). The samples were analyzed for a variety of compounds in accordance with the Department of Toxic Substances Control (DTSC) approved Preliminary Environmental Assessment (PEA) Work Plan. Based on the analytical results of the DTSC approved PEA which was conducted prior to the demolition of Buildings A and B/C, ENVIRON concluded that "Based on the reviewed results, no significant issues of concern were identified in soil, soil vapor, and groundwater samples collected at MMHS." The Memorandum further states that "96% of the soil samples (all but five samples) tested for PCBs were either non-detect or were present at concentrations less than applicable USEPA and or DTSC modified residential RSLs".

During the soil sampling described herein, representative soil samples were collected from within the approximate footprint of the location of the former Buildings A and B/C in order to assess whether or not PCB's were present in soil to confirm post demolition conditions and to prepare for redevelopment.

Health & Safety Plan

A Site-specific health and safety plan (HASP) was prepared for the field activities. The HASP addressed issues regarding chemical exposure, personal protective equipment (PPE), physical and biological hazards that might be expected at the Site, an emergency response plan, and route to the nearest hospital. Site personnel engaged in field activities were required to read and sign the HASP.

Sampling and Analysis Activities

A total of twenty (20) sample locations were selected by the Leighton project geologist. Sampling was conducted using a Geoprobe to collect samples from approximately 0.5, 2.5 and 5.0 feet below ground surface (bgs) for sample locations ABC-1 through ABC-20. For all sample locations only the 0.5 and 2.5 feet bgs samples were initially analyzed for the presence of PCBs and the 5.0 feet bgs samples were placed on laboratory hold pending the results of the shallower samples. Due to the detection of PCBs in some of the shallower samples, the 5.0 feet bgs samples were analyzed for PCBs to determine the vertical extent of impacted materials. Of those samples, two locations (ABC-6 and ABC-7) contained detections above the RL for Aroclor 1254.

Soil samples were retained in 6-inch acetate sleeves, capped with Teflon® paper and plastic end caps, clearly marked with sample identification, placed in an ice-cooled chest for temporary storage, and transported to Test America, Inc. in Irvine, California

under standard chain-of-custody protocol. Soil samples were analyzed for PCBs by EPA Method 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography.

Based on laboratory results, two locations (ABC-6 and ABC-7) contained concentrations above the RL at 5.0 feet bgs for Aroclor 1254. Both locations were excavated down to a maximum depth of 8 feet below ground surface utilizing a mini excavator. Grab samples were collected from the bucket of the mini excavator at depths of 5.5, 7.0 and 8.0 feet below ground surface for additional laboratory analyses.

Soil samples for this phase of work were retained in laboratory-supplied glass jars, placed in an ice-cooled chest for temporary storage, and transported to Test America, Inc. in Irvine, California under standard chain-of-custody protocol. Soil samples were analyzed for PCBs by EPA Method 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography.

Equipment Decontamination

Any equipment that came into contact with potentially contaminated soil or water was decontaminated consistently to assure the quality of samples collected. Disposable equipment intended for one-time use was not decontaminated, but was packaged for appropriate disposal. Decontamination occurred prior to and after each use of a reusable piece of equipment. The sampling devices used (e.g., hand auger) were decontaminated using the following procedures:

- Non-phosphate detergent and tap water scrub, using a brush if necessary;
- Tap water rinse; and
- Final deionized/distilled water rinse.

The soil borings were backfilled with hydrated bentonite clay followed by native material as applicable.

Sample Custody

An entry was made on a chain-of-custody form supplied by the laboratory for each sample that was submitted to the laboratory for analysis. The information recorded included the sampling date and time, sample identification number, matrix type, requested analyses and methods, preservatives, and the sampler's name. Sampling team members maintained custody of the samples until they were relinquished to laboratory personnel or professional courier service. The cooler was appropriately

sealed before it was relinquished to laboratory personnel. The chain-of-custody form accompanied the samples from the time of collection until received by the laboratory. Each party in possession of the samples signed the chain-of-custody form signifying receipt.

Collected soil samples were transported using standard chain-of-custody protocol to Test America Laboratories in Irvine, California, an analytical testing laboratory accredited by the California Department of Public Health (CDPH). Upon receipt, the laboratory inspected the condition of the sample containers and reported the information on chain-of-custody or similar form.

A copy of the original completed chain-of-custody form was provided by the laboratory along with the report of results. Appendix A contains a copy of the laboratory analytical report.

Investigation Derived Waste Management

In the process of collecting the soil samples for laboratory analysis, different types of potentially contaminated Investigation Derived Waste (IDW) were generated that included used PPE, disposable sampling equipment, excess soil cuttings, and decontamination fluids.

Listed below are the procedures that were followed for handling the IDW:

- Used PPE and disposable equipment were double bagged and placed in a municipal refuse dumpster. These wastes are not considered hazardous and could be sent to a municipal landfill.

- Remaining soil cuttings (not used as backfill) and decontamination wastewater were placed in a US Department of Transportation (DOT)-approved 55-gallon drum. The drum was labeled and sealed, pending receipt of analytical results, waste profiling and off-Site disposal.

A single 55-gallon drum containing IDW was generated during the sampling. This drum contained excess soil cuttings from the hand-auger borings from the Building E investigation, direct push borings from the current investigation and very limited liquid from the decontamination activities. At the completion of sampling activities, a grab sample(s) was collected directly from the drum containing IDW. IDW samples were analyzed for the following compounds for waste profiling, manifesting and offsite disposal:

- California Code of Regulations (CCR) Title 22 Code of Administrative Manual (CAM) 17 metals (CAM 17 metals) by EPA Method 6010B/7471A,
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082,
- Volatile Organic Compounds (VOCs) by EPA Method 8260B, and
- Gasoline Range Organics (GRO), Diesel Range Organics (DRO) and Oil Range Organics (ORO) by EPA Method 8015B.

Analytical Results

The soil sample analytical results were compared to the following screening criteria:

- Residential EPA Region 9 residential Regional Screening Levels (RSLs) for PCBs; and
- California Regional Water Quality Control Board's Maximum Contaminant Levels (MCLs) for PCBs.

The analytical results for soil samples are summarized in Table 1 as follows:

- **Aroclor 1254** was detected in 22 of the 67 soil samples analyzed. The maximum Aroclor 1254 concentration detected was 140 µg/kg in boring ABC-6 at 0.5 feet bgs. None of the samples analyzed exceeded the RSL of 240 µg/kg.

Analytical results for the investigation are attached as Appendix A- *Laboratory Results*.

Remedial Excavations

Once the vertical and horizontal limits of the excavations were defined, remedial excavation was arranged by the contractor. During the excavation process, the horizontal and vertical limits of the excavations were revised as necessary, based on field observations. Soil excavation areas were monitored for dust per the Air Quality Management District's (AQMD) 1466 guidelines. Vista Environmental Consulting, an approved subcontractor, performed the 1466 dust monitoring. Dust monitoring logs are available in Appendix B- *Dust Monitoring Logs*. The excavation and removal of the impacted soil was performed by a certified contractor under the direct supervision of McCarthy.

A total of approximately 2,000 cubic yards of soil were excavated at the Site between August 16th and August 17th, 2018. Soil material characterized as Non-Hazardous Waste typically contained PCBs at concentrations that exceeded the laboratory Reporting Limit, but below state and federal hazardous waste criteria.

Conclusions

Based on the results of the sampling and analysis conducted as part of this investigation Leighton has determined the following:

- 22 of the 67 samples analyzed had detections of Aroclor 1254 above the reporting limit. Of those, 7 of the samples had detections above the Method Detection Limit (MDL).
- None of the soil samples obtained from the borings or test pit excavations advanced had detections above the RSL for Aroclor 1254.

LIMITATIONS

This investigation was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.

The observations and conclusions presented in this report are professional opinions based on the scope of activities, work schedule, and information obtained through the activities described herein, and are limited to the portion of the Site investigated. Opinions presented herein apply to property conditions existing at the time of our study and cannot necessarily be taken to apply to property conditions outside of the area investigated or changes that we are not aware of or have not had the opportunity to evaluate. It must be recognized that conclusions drawn from these data are limited to the portion of the Site investigated, and the amount, type, distribution, and integrity of the information collected at the time of the investigation, and the methods utilized to collect and evaluate the data. Although Leighton has taken steps to obtain true copies of available information, we make no representation or warranty with respect to the accuracy or completeness of the information provided by others.

Closure

We appreciate the opportunity to be of additional service to Santa Monica-Malibu Unified School District. If you have any questions or if we can be of further service, please contact us at your convenience at ***866-LEIGHTON***, directly at the phone extensions or e-mail addresses listed below.

Respectfully submitted,

LEIGHTON CONSULTING, INC.

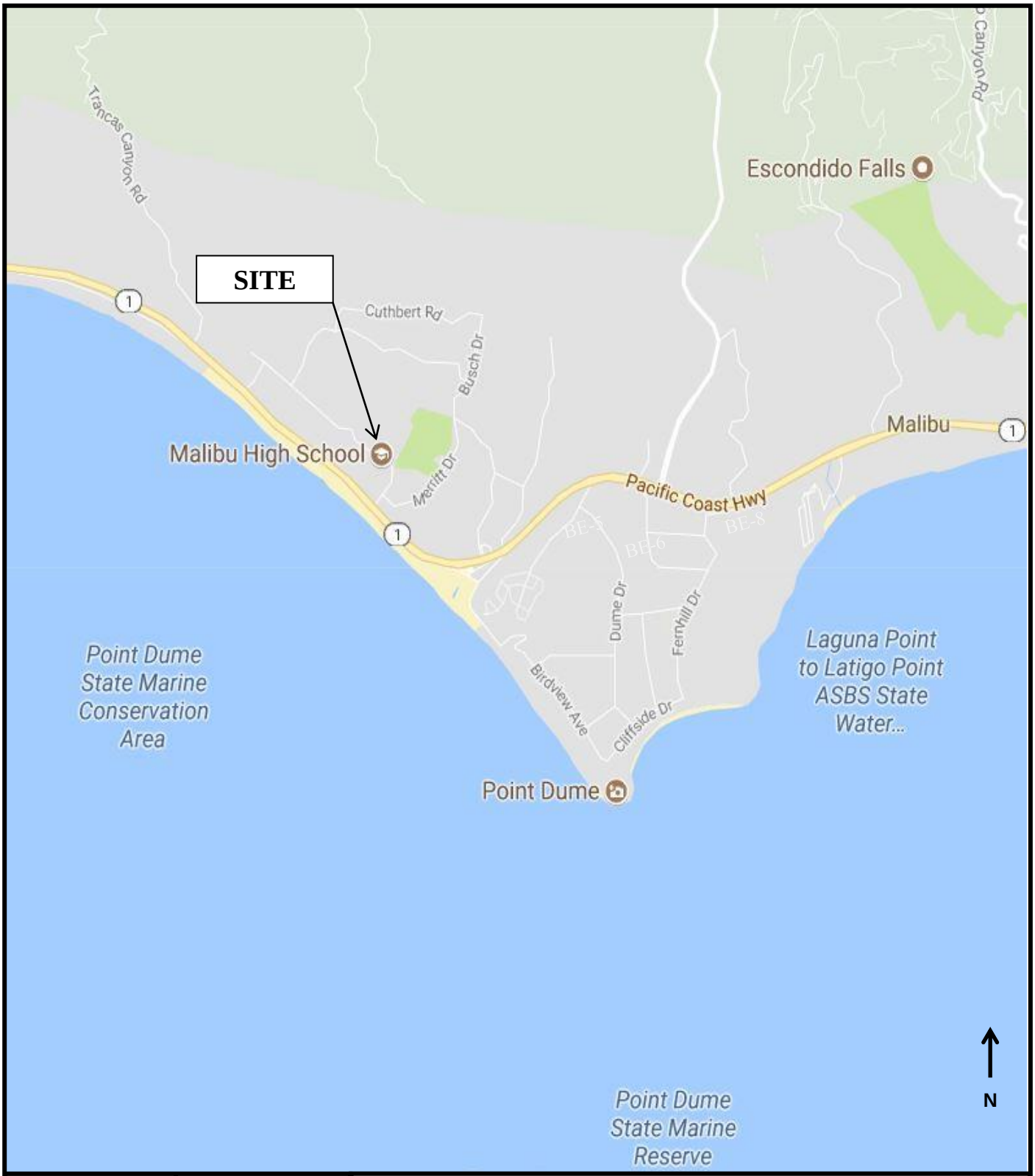
Kevin Bryan, PG, CEG, 2182, QSD/QSP
Sr. Principal Environmental Geologist

kab/irv

Attachments: Figure 1 – Site Location Map
Figure 2 – Exploration Location Map
Appendix A – Laboratory Results
Appendix B – Dust Monitoring Logs

Distribution: (1) Addressee via email

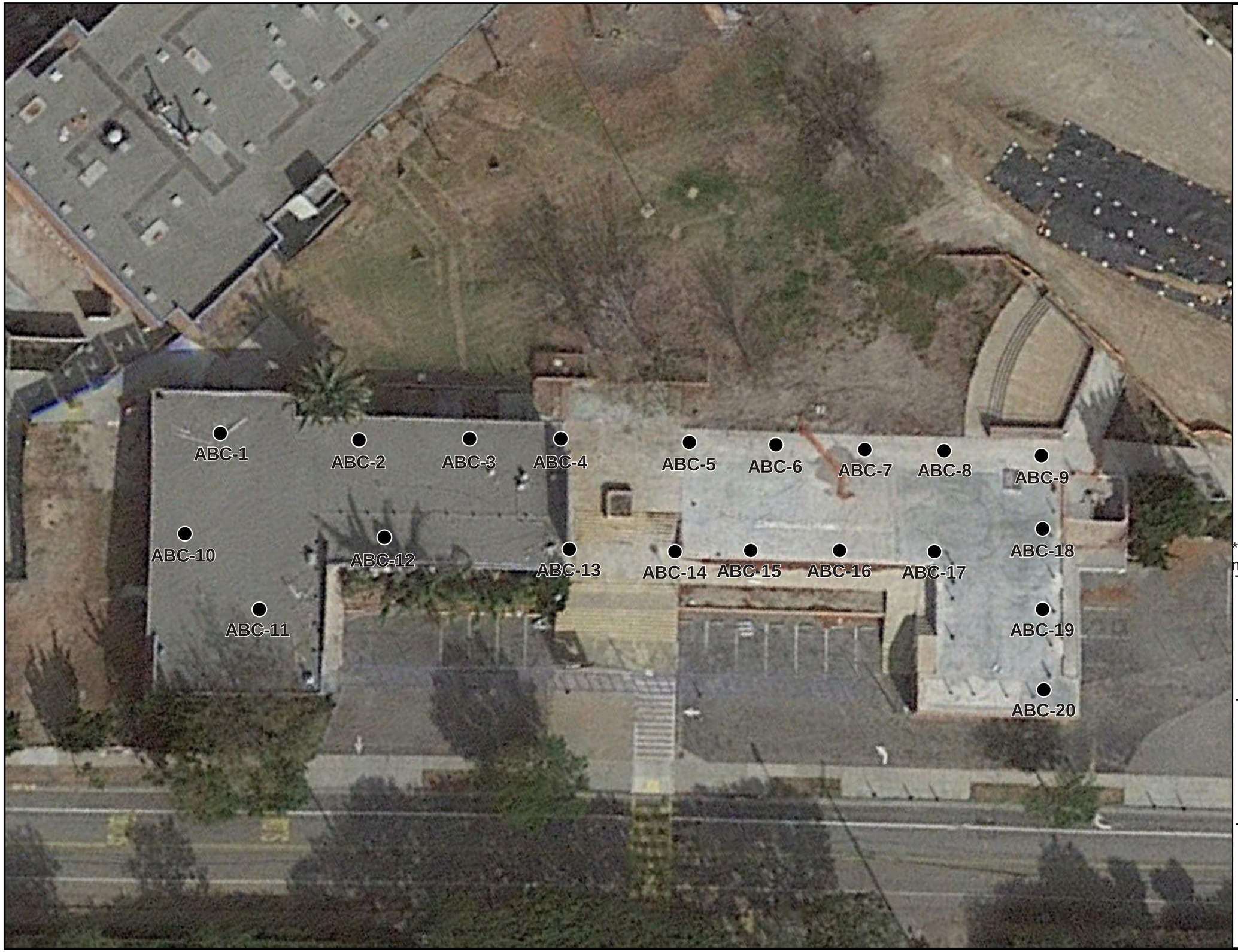
Leighton



Proj. No.: 11382.005	Eng/Geol: KAB
Not to Scale	Date: Sept. 1, 2017
Base Map: Google Earth Author: KAB	

SOIL LOCATION MAP
Malibu High School
30215 Morning View Dr., Malibu, California 90265

Figure 1



LEGEND

● Approximate location of direct push boring

Scale in Feet

0 25 50

*Soil sampling locations are approximate

Leighton Consulting, Inc.

A LEIGHTON GROUP COMPANY

Project No.	**11382.005**
Approx. Scale	**1"=25'**
Engr./Geol.	**KAB**
Drafted By	**SAM**
Date	**August 2018**

FIGURE 2- BORING LOCATION MAP

MALIBU MIDDLE AND HIGH SCHOOL
MALIBU, CALIFORNIA

TABLE 1
Summary of Soil Analytical Results - Polychlorinated Biphenyls

Sample ID	Depth (feet bgs)	Sample Date	Units	Duplicate	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
SCREENING CRITERIA													
California MCLs			ug/L		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
USEPA RSL Residential Soil			ug/kg		4100	200	170	230	230	240	240	--	--
Building A													
ABC-6-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**140**	ND<17	ND<17	ND<17
ABC-6-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**18 J**	ND<17	ND<17	ND<17
ABC-6-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**41 J**	ND<17	ND<17	ND<17
ABC-6-5.5	5.5	8/10/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-6-7.0	7.0	8/10/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-6-7.8	7.8	8/10/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-7-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**22 J**	ND<17	ND<17	ND<17
ABC-7-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**44 J**	ND<17	ND<17	ND<17
ABC-7-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**23 J**	ND<17	ND<17	ND<17
ABC-7-5.5	5.5	8/10/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-7-7.0	7.0	8/10/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-7-8.0	8.0	8/10/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-8-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**21 J**	ND<17	ND<17	ND<17
ABC-8-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-8-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-9-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-9-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**17 J**	ND<17	ND<17	ND<17
ABC-9-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-14-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-14-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-14-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-15-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**22 J**	ND<17	ND<17	ND<17
ABC-15-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**83**	ND<17	ND<17	ND<17
ABC-15-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-16-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**140**	ND<17	ND<17	ND<17
ABC-16-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-16-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-17-0.5	0.5	7/25/2018	ug/kg	X	ND<17	ND<17	ND<17	ND<17	ND<17	**28 J**	ND<17	ND<17	ND<17
ABC-17-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-17-5.0	5.0	7/25/2018	ug/kg	X	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-18-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**28 J**	ND<17	ND<17	ND<17
ABC-18-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-18-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-19-0.5	0.5	7/25/2018	ug/kg	X	ND<17	ND<17	ND<17	ND<17	ND<17	**56**	ND<17	ND<17	ND<17
ABC-19-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-19-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-20-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-20-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**19 J**	ND<17	ND<17	ND<17
ABC-20-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17

TABLE 1
Summary of Soil Analytical Results - Polychlorinated Biphenyls

Sample ID	Depth (feet bgs)	Sample Date	Units	Duplicate	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268
SCREENING CRITERIA													
California MCLs			ug/L		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
USEPA RSL Residential Soil			ug/kg		4100	200	170	230	230	240	240	--	--
Building B/C													
ABC-1-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**43 J**	ND<17	ND<17	ND<17
ABC-1-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**85**	ND<17	ND<17	ND<17
ABC-1-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-2-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**37 J**	ND<17	ND<17	ND<17
ABC-2-2.5	2.5	7/25/2018	ug/kg	X	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-2-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-3-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**73**	ND<17	ND<17	ND<17
ABC-3-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-3-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-4-0.5	0.5	7/25/2018	ug/kg	X	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-4-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-4-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-5-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**34 J**	ND<17	ND<17	ND<17
ABC-5-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-5-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-10-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-10-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-10-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-11-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	**24 J**	ND<17	ND<17	ND<17
ABC-11-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-11-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-12-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-12-2.5	2.5	7/25/2018	ug/kg	X	ND<17	ND<17	ND<17	ND<17	ND<17	**74**	ND<17	ND<17	ND<17
ABC-12-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-13-0.5	0.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-13-2.5	2.5	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
ABC-13-5.0	5.0	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17
Equipment Blank													
EB-1	N/A	7/25/2018	ug/kg		ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17	ND<17

APPENDIX A

Laboratory Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-216584-1
TestAmerica Sample Delivery Group: Malibu High School
Client Project/Site: Malibu HS A B/C

For:
Leighton Consulting Inc
17781 Cowan
Suite 200
Irvine, California 92614

Attn: Kevin Bryan

Authorized for release by:
8/9/2018 1:20:33 PM

Danielle Roberts, Senior Project Manager
(949)261-1022
danielle.roberts@testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 5
Detection Summary 7
Client Sample Results 13
Surrogate Summary 38
Method Summary 42
Lab Chronicle 43
QC Sample Results 55
QC Association Summary 72
Definitions/Glossary 78
Certification Summary 79
Chain of Custody 80
Receipt Checklists 86

Sample Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-216584-1	ABC-15-0.5	Solid	07/25/18 07:50	07/25/18 13:00
440-216584-2	ABC-15-2.5	Solid	07/25/18 07:52	07/25/18 13:00
440-216584-3	ABC-15-5.0	Solid	07/25/18 07:54	07/25/18 13:00
440-216584-4	ABC-16-0.5	Solid	07/25/18 07:55	07/25/18 13:00
440-216584-5	ABC-16-2.5	Solid	07/25/18 07:56	07/25/18 13:00
440-216584-6	ABC-16-5.0	Solid	07/25/18 07:57	07/25/18 13:00
440-216584-7	ABC-17-0.5	Solid	07/25/18 07:58	07/25/18 13:00
440-216584-8	ABC-17-2.5	Solid	07/25/18 08:00	07/25/18 13:00
440-216584-9	ABC-17-5.0	Solid	07/25/18 08:01	07/25/18 13:00
440-216584-10	ABC-18-0.5	Solid	07/25/18 08:03	07/25/18 13:00
440-216584-11	ABC-18-2.5	Solid	07/25/18 08:04	07/25/18 13:00
440-216584-12	ABC-18-5.0	Solid	07/25/18 08:05	07/25/18 13:00
440-216584-13	ABC-9-0.5	Solid	07/25/18 08:06	07/25/18 13:00
440-216584-14	ABC-9-2.5	Solid	07/25/18 08:07	07/25/18 13:00
440-216584-15	ABC-9-5.0	Solid	07/25/18 08:08	07/25/18 13:00
440-216584-16	ABC-19-0.5	Solid	07/25/18 08:09	07/25/18 13:00
440-216584-17	ABC-19-2.5	Solid	07/25/18 08:11	07/25/18 13:00
440-216584-18	ABC-19-5.0	Solid	07/25/18 08:12	07/25/18 13:00
440-216584-19	ABC-20-0.5	Solid	07/25/18 08:13	07/25/18 13:00
440-216584-20	ABC-20-2.5	Solid	07/25/18 08:14	07/25/18 13:00
440-216584-21	ABC-20-5.0	Solid	07/25/18 08:15	07/25/18 13:00
440-216584-22	ABC-8-0.5	Solid	07/25/18 08:16	07/25/18 13:00
440-216584-23	ABC-8-2.5	Solid	07/25/18 08:17	07/25/18 13:00
440-216584-24	ABC-8-5.0	Solid	07/25/18 08:18	07/25/18 13:00
440-216584-25	ABC-7-0.5	Solid	07/25/18 08:19	07/25/18 13:00
440-216584-26	ABC-7-2.5	Solid	07/25/18 08:20	07/25/18 13:00
440-216584-27	ABC-7-5.0	Solid	07/25/18 08:21	07/25/18 13:00
440-216584-28	ABC-6-0.5	Solid	07/25/18 08:30	07/25/18 13:00
440-216584-29	ABC-6-2.5	Solid	07/25/18 08:31	07/25/18 13:00
440-216584-30	ABC-6-5.0	Solid	07/25/18 08:32	07/25/18 13:00
440-216584-31	ABC-5-0.5	Solid	07/25/18 08:33	07/25/18 13:00
440-216584-32	ABC-5-2.5	Solid	07/25/18 08:34	07/25/18 13:00
440-216584-33	ABC-5-5.0	Solid	07/25/18 08:35	07/25/18 13:00
440-216584-34	ABC-4-0.5	Solid	07/25/18 08:40	07/25/18 13:00
440-216584-35	ABC-4-2.5	Solid	07/25/18 08:42	07/25/18 13:00
440-216584-36	ABC-4-5.0	Solid	07/25/18 08:43	07/25/18 13:00
440-216584-37	ABC-3-0.5	Solid	07/25/18 08:44	07/25/18 13:00
440-216584-38	ABC-3-2.5	Solid	07/25/18 08:45	07/25/18 13:00
440-216584-39	ABC-3-5.0	Solid	07/25/18 08:46	07/25/18 13:00
440-216584-40	ABC-2-0.5	Solid	07/25/18 08:58	07/25/18 13:00
440-216584-41	ABC-2-2.5	Solid	07/25/18 08:59	07/25/18 13:00
440-216584-42	ABC-2-5.0	Solid	07/25/18 09:01	07/25/18 13:00
440-216584-43	ABC-1-0.5	Solid	07/25/18 09:02	07/25/18 13:00
440-216584-44	ABC-1-2.5	Solid	07/25/18 09:03	07/25/18 13:00
440-216584-45	ABC-1-5.0	Solid	07/25/18 09:04	07/25/18 13:00
440-216584-46	ABC-10-0.5	Solid	07/25/18 09:05	07/25/18 13:00
440-216584-47	ABC-10-2.5	Solid	07/25/18 09:06	07/25/18 13:00
440-216584-48	ABC-10-5.0	Solid	07/25/18 09:07	07/25/18 13:00
440-216584-49	ABC-11-0.5	Solid	07/25/18 09:08	07/25/18 13:00
440-216584-50	ABC-11-2.5	Solid	07/25/18 09:09	07/25/18 13:00
440-216584-51	ABC-11-5.0	Solid	07/25/18 09:10	07/25/18 13:00
440-216584-52	ABC-12-0.5	Solid	07/25/18 09:11	07/25/18 13:00
440-216584-53	ABC-12-2.5	Solid	07/25/18 09:12	07/25/18 13:00

Sample Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-216584-54	ABC-12-5.0	Solid	07/25/18 09:14	07/25/18 13:00
440-216584-55	ABC-13-0.5	Solid	07/25/18 09:15	07/25/18 13:00
440-216584-56	ABC-13-2.5	Solid	07/25/18 09:16	07/25/18 13:00
440-216584-57	ABC-13-5.0	Solid	07/25/18 09:17	07/25/18 13:00
440-216584-58	ABC-14-0.5	Solid	07/25/18 09:18	07/25/18 13:00
440-216584-59	ABC-14-2.5	Solid	07/25/18 09:19	07/25/18 13:00
440-216584-60	ABC-14-5.0	Solid	07/25/18 09:20	07/25/18 13:00
440-216584-61	ABC-17-DUP-0.5	Solid	07/25/18 07:59	07/25/18 13:00
440-216584-62	ABC-17-DUP-5.0	Solid	07/25/18 08:02	07/25/18 13:00
440-216584-63	ABC-19-DUP-0.5	Solid	07/25/18 08:10	07/25/18 13:00
440-216584-64	ABC-4-DUP-0.5	Solid	07/25/18 08:41	07/25/18 13:00
440-216584-65	ABC-2-DUP-2.5	Solid	07/25/18 09:00	07/25/18 13:00
440-216584-66	ABC-12-DUP-2.5	Solid	07/25/18 09:13	07/25/18 13:00
440-216584-67	EB-1	Water	07/25/18 09:49	07/25/18 13:00
440-216584-68	DRUM	Solid	07/25/18 09:55	07/25/18 13:00

Job ID: 440-216584-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-216584-1

Comments
No additional comments.

Receipt
The samples were received on 7/25/2018 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

The following samples were received at the laboratory without a sample collection time documented on the chain of custody: ABC-15-0.5 (440-216584-1), ABC-15-2.5 (440-216584-2), ABC-15-5.0 (440-216584-3), ABC-16-0.5 (440-216584-4), ABC-16-2.5 (440-216584-5), ABC-16-5.0 (440-216584-6), ABC-17-0.5 (440-216584-7), ABC-17-2.5 (440-216584-8), ABC-17-5.0 (440-216584-9), ABC-18-0.5 (440-216584-10), ABC-18-2.5 (440-216584-11), ABC-18-5.0 (440-216584-12), ABC-9-0.5 (440-216584-13), ABC-9-2.5 (440-216584-14), ABC-9-5.0 (440-216584-15), ABC-19-0.5 (440-216584-16), ABC-19-2.5 (440-216584-17), ABC-19-5.0 (440-216584-18), ABC-20-0.5 (440-216584-19), ABC-20-2.5 (440-216584-20), ABC-20-5.0 (440-216584-21), ABC-8-0.5 (440-216584-22), ABC-8-2.5 (440-216584-23), ABC-8-5.0 (440-216584-24), ABC-7-0.5 (440-216584-25), ABC-7-2.5 (440-216584-26), ABC-7-5.0 (440-216584-27), ABC-6-0.5 (440-216584-28), ABC-6-2.5 (440-216584-29), ABC-6-5.0 (440-216584-30), ABC-5-0.5 (440-216584-31), ABC-5-2.5 (440-216584-32), ABC-5-5.0 (440-216584-33), ABC-4-0.5 (440-216584-34), ABC-4-2.5 (440-216584-35), ABC-4-5.0 (440-216584-36), ABC-3-0.5 (440-216584-37), ABC-3-2.5 (440-216584-38), ABC-3-5.0 (440-216584-39), ABC-2-0.5 (440-216584-40), ABC-2-2.5 (440-216584-41), ABC-2-5.0 (440-216584-42), ABC-1-0.5 (440-216584-43), ABC-1-2.5 (440-216584-44), ABC-1-5.0 (440-216584-45), ABC-10-0.5 (440-216584-46), ABC-10-2.5 (440-216584-47), ABC-10-5.0 (440-216584-48), ABC-11-0.5 (440-216584-49), ABC-11-2.5 (440-216584-50), ABC-11-5.0 (440-216584-51), ABC-12-0.5 (440-216584-52), ABC-12-2.5 (440-216584-53), ABC-12-5.0 (440-216584-54), ABC-13-0.5 (440-216584-55), ABC-13-2.5 (440-216584-56), ABC-13-5.0 (440-216584-57), ABC-14-0.5 (440-216584-58), ABC-14-2.5 (440-216584-59), ABC-14-5.0 (440-216584-60), ABC-17-DUP-0.5 (440-216584-61), ABC-17-DUP-5.0 (440-216584-62), ABC-19-DUP-0.5 (440-216584-63), ABC-4-DUP-0.5 (440-216584-64), ABC-2-DUP-2.5 (440-216584-65), ABC-12-DUP-2.5 (440-216584-66), EB-1 (440-216584-67) and DRUM (440-216584-68). These samples were logged in with the collection time indicated on the containers.

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

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

GC Semi VOA
Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-489754 and analytical batch 440-489702. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch: (LCS 440-489754/2-A)

Method(s) 8082: Surrogate recovery for the following samples was outside control limits: ABC-19-DUP-0.5 (440-216584-63) and ABC-12-DUP-2.5 (440-216584-66). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: Surrogate recovery for the following samples was outside control limits: ABC-12-0.5 (440-216584-52) and ABC-13-0.5 (440-216584-55). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-489685 and analytical batch

Job ID: 440-216584-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

440-489997 were outside control limits for Antimony and Vanadium. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Organic Prep
Method(s) 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with 3510C 8082 preparation batch 440-489754.

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

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

Job ID: 440-216584-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-216584-2

Comments
No additional comments.

Receipt
The samples were received on 7/25/2018 1:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0º C.

GC Semi VOA
Method(s) 8082: Surrogate recovery for the following samples was outside control limits: ABC-17-DUP-5.0 (440-216584-62), (440-216584-A-3-A MS), (440-216584-A-3-B MSD), (440-216584-A-62-A MS) and (440-216584-A-62-B MSD). Evidence of matrix interference is present; therefore, re-extraction and re-analysis was not performed.

Method(s) 8082: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 440-492053 and 440-492064 and analytical batch 440-492155 were outside control limits: (440-216584-A-3-A MS), (440-216584-A-3-B MSD), (440-216584-A-62-A MS) and (440-216584-A-62-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

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: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-15-0.5 — Lab Sample ID: 440-216584-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	22	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-15-2.5 — Lab Sample ID: 440-216584-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	83		49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-15-5.0 — Lab Sample ID: 440-216584-3

No Detections.

Client Sample ID: ABC-16-0.5 — Lab Sample ID: 440-216584-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	140		50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-16-2.5 — Lab Sample ID: 440-216584-5

No Detections.

Client Sample ID: ABC-16-5.0 — Lab Sample ID: 440-216584-6

No Detections.

Client Sample ID: ABC-17-0.5 — Lab Sample ID: 440-216584-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	28	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-17-2.5 — Lab Sample ID: 440-216584-8

No Detections.

Client Sample ID: ABC-17-5.0 — Lab Sample ID: 440-216584-9

No Detections.

Client Sample ID: ABC-18-0.5 — Lab Sample ID: 440-216584-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	28	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-18-2.5 — Lab Sample ID: 440-216584-11

No Detections.

Client Sample ID: ABC-18-5.0 — Lab Sample ID: 440-216584-12

No Detections.

Client Sample ID: ABC-9-0.5 — Lab Sample ID: 440-216584-13

This Detection Summary does not include radiochemical test results.

Client Sample ID: ABC-9-0.5 (Continued) — Lab Sample ID: 440-216584-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	17	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-9-2.5 — Lab Sample ID: 440-216584-14

No Detections.

Client Sample ID: ABC-9-5.0 — Lab Sample ID: 440-216584-15

No Detections.

Client Sample ID: ABC-19-0.5 — Lab Sample ID: 440-216584-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	56		50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-19-2.5 — Lab Sample ID: 440-216584-17

No Detections.

Client Sample ID: ABC-19-5.0 — Lab Sample ID: 440-216584-18

No Detections.

Client Sample ID: ABC-20-0.5 — Lab Sample ID: 440-216584-19

No Detections.

Client Sample ID: ABC-20-2.5 — Lab Sample ID: 440-216584-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	19	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-20-5.0 — Lab Sample ID: 440-216584-21

No Detections.

Client Sample ID: ABC-8-0.5 — Lab Sample ID: 440-216584-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	21	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-8-2.5 — Lab Sample ID: 440-216584-23

No Detections.

Client Sample ID: ABC-8-5.0 — Lab Sample ID: 440-216584-24

No Detections.

Client Sample ID: ABC-7-0.5 — Lab Sample ID: 440-216584-25

This Detection Summary does not include radiochemical test results.

Client Sample ID: ABC-7-0.5 (Continued) — Lab Sample ID: 440-216584-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	22	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-7-2.5 — Lab Sample ID: 440-216584-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	44	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-7-5.0 — Lab Sample ID: 440-216584-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	23	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-6-0.5 — Lab Sample ID: 440-216584-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	140		50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-6-2.5 — Lab Sample ID: 440-216584-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	18	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-6-5.0 — Lab Sample ID: 440-216584-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	41	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-5-0.5 — Lab Sample ID: 440-216584-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	34	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-5-2.5 — Lab Sample ID: 440-216584-32

No Detections.

Client Sample ID: ABC-5-5.0 — Lab Sample ID: 440-216584-33

No Detections.

Client Sample ID: ABC-4-0.5 — Lab Sample ID: 440-216584-34

No Detections.

Client Sample ID: ABC-4-2.5 — Lab Sample ID: 440-216584-35

No Detections.

Client Sample ID: ABC-4-5.0 — Lab Sample ID: 440-216584-36

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-3-0.5 — Lab Sample ID: 440-216584-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	73		49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-3-2.5 — Lab Sample ID: 440-216584-38

No Detections.

Client Sample ID: ABC-3-5.0 — Lab Sample ID: 440-216584-39

No Detections.

Client Sample ID: ABC-2-0.5 — Lab Sample ID: 440-216584-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	37	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-2-2.5 — Lab Sample ID: 440-216584-41

No Detections.

Client Sample ID: ABC-2-5.0 — Lab Sample ID: 440-216584-42

No Detections.

Client Sample ID: ABC-1-0.5 — Lab Sample ID: 440-216584-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	43	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-1-2.5 — Lab Sample ID: 440-216584-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	85		49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-1-5.0 — Lab Sample ID: 440-216584-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	45	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-10-0.5 — Lab Sample ID: 440-216584-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	43	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-10-2.5 — Lab Sample ID: 440-216584-47

No Detections.

Client Sample ID: ABC-10-5.0 — Lab Sample ID: 440-216584-48

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-11-0.5 — Lab Sample ID: 440-216584-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	24	J	49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-11-2.5 — Lab Sample ID: 440-216584-50

No Detections.

Client Sample ID: ABC-11-5.0 — Lab Sample ID: 440-216584-51

No Detections.

Client Sample ID: ABC-12-0.5 — Lab Sample ID: 440-216584-52

No Detections.

Client Sample ID: ABC-12-2.5 — Lab Sample ID: 440-216584-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	74		49	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-12-5.0 — Lab Sample ID: 440-216584-54

No Detections.

Client Sample ID: ABC-13-0.5 — Lab Sample ID: 440-216584-55

No Detections.

Client Sample ID: ABC-13-2.5 — Lab Sample ID: 440-216584-56

No Detections.

Client Sample ID: ABC-13-5.0 — Lab Sample ID: 440-216584-57

No Detections.

Client Sample ID: ABC-14-0.5 — Lab Sample ID: 440-216584-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	17	J	50	17	ug/Kg	1		8082	Total/NA

Client Sample ID: ABC-14-2.5 — Lab Sample ID: 440-216584-59

No Detections.

Client Sample ID: ABC-14-5.0 — Lab Sample ID: 440-216584-60

No Detections.

Client Sample ID: ABC-17-DUP-0.5 — Lab Sample ID: 440-216584-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1254	19	J	50	17	ug/Kg	1		8082	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Irvine

Detection Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-17-DUP-5.0 — Lab Sample ID: 440-216584-62

No Detections.

Client Sample ID: ABC-19-DUP-0.5 — Lab Sample ID: 440-216584-63

No Detections.

Client Sample ID: ABC-4-DUP-0.5 — Lab Sample ID: 440-216584-64

No Detections.

Client Sample ID: ABC-2-DUP-2.5 — Lab Sample ID: 440-216584-65

No Detections.

Client Sample ID: ABC-12-DUP-2.5 — Lab Sample ID: 440-216584-66

No Detections.

Client Sample ID: EB-1 — Lab Sample ID: 440-216584-67

No Detections.

Client Sample ID: DRUM — Lab Sample ID: 440-216584-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C40	13		4.9	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	4.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	140		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.45	J	0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	1.3		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	59		0.99	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	9.8		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	28		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	3.6		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	2.0		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	52		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	63		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	74		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.027		0.020	0.012	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ABC-15-0.5

Lab Sample ID: 440-216584-1
Date Collected: 07/25/18 07:50
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1
Aroclor 1254	**22**	**J**	50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*07/25/18 17:52*	*07/26/18 12:53*	*1*

Client Sample ID: ABC-15-2.5

Lab Sample ID: 440-216584-2
Date Collected: 07/25/18 07:52
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1
Aroclor 1254	**83**		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*07/25/18 17:52*	*07/26/18 10:43*	*1*

Client Sample ID: ABC-15-5.0

Lab Sample ID: 440-216584-3
Date Collected: 07/25/18 07:54
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	F1	49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1
Aroclor 1260	ND	F1	49	17	ug/Kg		08/07/18 17:21	08/08/18 14:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*08/07/18 17:21*	*08/08/18 14:13*	*1*

Client Sample ID: ABC-16-0.5

Lab Sample ID: 440-216584-4

Date Collected: 07/25/18 07:55
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1
Aroclor 1254	140		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*07/25/18 17:52*	*07/26/18 10:57*	*1*

Client Sample ID: ABC-16-2.5

Lab Sample ID: 440-216584-5

Date Collected: 07/25/18 07:56
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*07/25/18 17:52*	*07/26/18 11:10*	*1*

Client Sample ID: ABC-16-5.0

Lab Sample ID: 440-216584-6

Date Collected: 07/25/18 07:57
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*08/07/18 17:21*	*08/08/18 14:27*	*1*

Client Sample ID: ABC-17-0.5

Lab Sample ID: 440-216584-7

Date Collected: 07/25/18 07:58

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1
Aroclor 1254	28	J	50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*07/25/18 17:52*	*07/26/18 11:24*	*1*

Client Sample ID: ABC-17-2.5

Lab Sample ID: 440-216584-8

Date Collected: 07/25/18 08:00

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 11:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*07/25/18 17:52*	*07/26/18 11:37*	*1*

Client Sample ID: ABC-17-5.0

Lab Sample ID: 440-216584-9

Date Collected: 07/25/18 08:01

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*08/07/18 17:21*	*08/08/18 14:40*	*1*

Client Sample ID: ABC-18-0.5

Lab Sample ID: 440-216584-10

Date Collected: 07/25/18 08:03

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1
Aroclor 1254	**28**	**J**	50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*07/25/18 17:52*	*07/26/18 11:51*	*1*

Client Sample ID: ABC-18-2.5

Lab Sample ID: 440-216584-11

Date Collected: 07/25/18 08:04

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*07/25/18 17:52*	*07/26/18 12:05*	*1*

Client Sample ID: ABC-18-5.0

Lab Sample ID: 440-216584-12

Date Collected: 07/25/18 08:05

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 14:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*08/07/18 17:21*	*08/08/18 14:54*	*1*

Client Sample ID: ABC-9-0.5

Lab Sample ID: 440-216584-13

Date Collected: 07/25/18 08:06

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1
Aroclor 1254	**17**	**J**	50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*07/25/18 17:52*	*07/26/18 12:18*	*1*

Client Sample ID: ABC-9-2.5

Lab Sample ID: 440-216584-14

Date Collected: 07/25/18 08:07

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*07/25/18 17:52*	*07/26/18 12:32*	*1*

Client Sample ID: ABC-9-5.0

Lab Sample ID: 440-216584-15

Date Collected: 07/25/18 08:08

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*08/07/18 17:21*	*08/08/18 15:07*	*1*

Client Sample ID: ABC-19-0.5

Lab Sample ID: 440-216584-16

Date Collected: 07/25/18 08:09
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1
Aroclor 1254	56		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*07/25/18 17:52*	*07/26/18 12:45*	*1*

Client Sample ID: ABC-19-2.5

Lab Sample ID: 440-216584-17

Date Collected: 07/25/18 08:11
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*07/25/18 17:52*	*07/26/18 12:59*	*1*

Client Sample ID: ABC-19-5.0

Lab Sample ID: 440-216584-18

Date Collected: 07/25/18 08:12
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*08/07/18 17:21*	*08/08/18 15:21*	*1*

Client Sample ID: ABC-20-0.5

Lab Sample ID: 440-216584-19

Date Collected: 07/25/18 08:13

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*07/25/18 17:52*	*07/26/18 13:13*	*1*

Client Sample ID: ABC-20-2.5

Lab Sample ID: 440-216584-20

Date Collected: 07/25/18 08:14

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1
Aroclor 1254	19	J	49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*07/25/18 17:52*	*07/26/18 13:26*	*1*

Client Sample ID: ABC-20-5.0

Lab Sample ID: 440-216584-21

Date Collected: 07/25/18 08:15

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 15:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*08/07/18 17:21*	*08/08/18 15:34*	*1*

Client Sample ID: ABC-8-0.5

Lab Sample ID: 440-216584-22
Date Collected: 07/25/18 08:16
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1
Aroclor 1254	21	J	50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*53*		*45 - 120*	*07/25/18 17:52*	*07/26/18 13:40*	*1*

Client Sample ID: ABC-8-2.5

Lab Sample ID: 440-216584-23
Date Collected: 07/25/18 08:17
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 13:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*07/25/18 17:52*	*07/26/18 13:53*	*1*

Client Sample ID: ABC-8-5.0

Lab Sample ID: 440-216584-24
Date Collected: 07/25/18 08:18
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1
Aroclor 1221	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1
Aroclor 1232	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1
Aroclor 1242	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1
Aroclor 1248	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1
Aroclor 1254	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1
Aroclor 1260	ND		48	16	ug/Kg		08/07/18 17:21	08/08/18 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*08/07/18 17:21*	*08/08/18 16:02*	*1*

Client Sample ID: ABC-7-0.5

Lab Sample ID: 440-216584-25

Date Collected: 07/25/18 08:19

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1
Aroclor 1254	**22**	**J**	49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*07/25/18 17:52*	*07/26/18 14:07*	*1*

Client Sample ID: ABC-7-2.5

Lab Sample ID: 440-216584-26

Date Collected: 07/25/18 08:20

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1
Aroclor 1254	**44**	**J**	49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*07/25/18 17:52*	*07/26/18 14:21*	*1*

Client Sample ID: ABC-7-5.0

Lab Sample ID: 440-216584-27

Date Collected: 07/25/18 08:21

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1
Aroclor 1254	**23**	**J**	49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*08/07/18 17:21*	*08/08/18 16:15*	*1*

Client Sample ID: ABC-6-0.5

Lab Sample ID: 440-216584-28

Date Collected: 07/25/18 08:30

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1
Aroclor 1254	**140**		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*07/25/18 17:52*	*07/26/18 14:34*	*1*

Client Sample ID: ABC-6-2.5

Lab Sample ID: 440-216584-29

Date Collected: 07/25/18 08:31

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1
Aroclor 1254	**18**	**J**	49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 17:52	07/26/18 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*07/25/18 17:52*	*07/26/18 14:48*	*1*

Client Sample ID: ABC-6-5.0

Lab Sample ID: 440-216584-30

Date Collected: 07/25/18 08:32

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1
Aroclor 1254	**41**	**J**	49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*08/07/18 17:21*	*08/08/18 16:29*	*1*

Client Sample ID: ABC-5-0.5

Lab Sample ID: 440-216584-31

Date Collected: 07/25/18 08:33
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1
Aroclor 1254	34	J	49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*07/25/18 18:04*	*07/26/18 14:00*	*1*

Client Sample ID: ABC-5-2.5

Lab Sample ID: 440-216584-32

Date Collected: 07/25/18 08:34
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*07/25/18 18:04*	*07/26/18 16:02*	*1*

Client Sample ID: ABC-5-5.0

Lab Sample ID: 440-216584-33

Date Collected: 07/25/18 08:35
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*08/07/18 17:21*	*08/08/18 16:43*	*1*

Client Sample ID: ABC-4-0.5

Lab Sample ID: 440-216584-34

Date Collected: 07/25/18 08:40
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*07/25/18 18:04*	*07/26/18 16:16*	*1*

Client Sample ID: ABC-4-2.5

Lab Sample ID: 440-216584-35

Date Collected: 07/25/18 08:42
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*07/25/18 18:04*	*07/26/18 16:29*	*1*

Client Sample ID: ABC-4-5.0

Lab Sample ID: 440-216584-36

Date Collected: 07/25/18 08:43
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*45 - 120*	*08/07/18 17:21*	*08/08/18 16:56*	*1*

Client Sample ID: ABC-3-0.5

Lab Sample ID: 440-216584-37
Date Collected: 07/25/18 08:44
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1
Aroclor 1254	73		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*07/25/18 18:04*	*07/26/18 16:43*	*1*

Client Sample ID: ABC-3-2.5

Lab Sample ID: 440-216584-38
Date Collected: 07/25/18 08:45
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 16:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*07/25/18 18:04*	*07/26/18 16:57*	*1*

Client Sample ID: ABC-3-5.0

Lab Sample ID: 440-216584-39
Date Collected: 07/25/18 08:46
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*08/07/18 17:21*	*08/08/18 17:10*	*1*

Client Sample ID: ABC-2-0.5

Lab Sample ID: 440-216584-40
Date Collected: 07/25/18 08:58
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1
Aroclor 1254	**37**	**J**	49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*07/25/18 18:04*	*07/26/18 17:10*	*1*

Client Sample ID: ABC-2-2.5

Lab Sample ID: 440-216584-41
Date Collected: 07/25/18 08:59
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*07/25/18 18:04*	*07/26/18 17:24*	*1*

Client Sample ID: ABC-2-5.0

Lab Sample ID: 440-216584-42
Date Collected: 07/25/18 09:01
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*08/07/18 17:21*	*08/08/18 17:23*	*1*

Client Sample ID: ABC-1-0.5

Lab Sample ID: 440-216584-43

Date Collected: 07/25/18 09:02
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1
Aroclor 1254	**43**	**J**	50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*07/25/18 18:04*	*07/26/18 17:37*	*1*

Client Sample ID: ABC-1-2.5

Lab Sample ID: 440-216584-44

Date Collected: 07/25/18 09:03
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1
Aroclor 1254	**85**		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*07/25/18 18:04*	*07/26/18 17:51*	*1*

Client Sample ID: ABC-1-5.0

Lab Sample ID: 440-216584-45

Date Collected: 07/25/18 09:04
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1
Aroclor 1254	**45**	**J**	49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*08/07/18 17:21*	*08/08/18 17:37*	*1*

Client Sample ID: ABC-10-0.5

Lab Sample ID: 440-216584-46

Date Collected: 07/25/18 09:05
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1
Aroclor 1254	**43**	**J**	49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*07/25/18 18:04*	*07/26/18 18:05*	*1*

Client Sample ID: ABC-10-2.5

Lab Sample ID: 440-216584-47

Date Collected: 07/25/18 09:06
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*	*07/25/18 18:04*	*07/26/18 18:18*	*1*

Client Sample ID: ABC-10-5.0

Lab Sample ID: 440-216584-48

Date Collected: 07/25/18 09:07
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*08/07/18 17:21*	*08/08/18 17:51*	*1*

Client Sample ID: ABC-11-0.5

Lab Sample ID: 440-216584-49

Date Collected: 07/25/18 09:08
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1
Aroclor 1254	24	J	49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*45 - 120*	*07/25/18 18:04*	*07/26/18 18:32*	*1*

Client Sample ID: ABC-11-2.5

Lab Sample ID: 440-216584-50

Date Collected: 07/25/18 09:09
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*07/25/18 18:04*	*07/26/18 18:46*	*1*

Client Sample ID: ABC-11-5.0

Lab Sample ID: 440-216584-51

Date Collected: 07/25/18 09:10
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*08/07/18 17:21*	*08/08/18 18:04*	*1*

Client Sample ID: ABC-12-0.5

Lab Sample ID: 440-216584-52

Date Collected: 07/25/18 09:11
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*40*	*X*	*45 - 120*	*07/25/18 18:04*	*07/26/18 18:59*	*1*

Client Sample ID: ABC-12-2.5

Lab Sample ID: 440-216584-53

Date Collected: 07/25/18 09:12
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1
Aroclor 1254	74		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*07/25/18 18:04*	*07/26/18 19:13*	*1*

Client Sample ID: ABC-12-5.0

Lab Sample ID: 440-216584-54

Date Collected: 07/25/18 09:14
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*08/07/18 17:21*	*08/08/18 18:18*	*1*

Client Sample ID: ABC-13-0.5

Lab Sample ID: 440-216584-55

Date Collected: 07/25/18 09:15
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*	*X*	*45 - 120*	*07/25/18 18:04*	*07/26/18 19:26*	*1*

Client Sample ID: ABC-13-2.5

Lab Sample ID: 440-216584-56

Date Collected: 07/25/18 09:16
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1
Aroclor 1221	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1
Aroclor 1232	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1
Aroclor 1242	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1
Aroclor 1248	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1
Aroclor 1254	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1
Aroclor 1260	ND		49	17	ug/Kg		07/25/18 18:04	07/26/18 19:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*07/25/18 18:04*	*07/26/18 19:40*	*1*

Client Sample ID: ABC-13-5.0

Lab Sample ID: 440-216584-57

Date Collected: 07/25/18 09:17
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*	*08/07/18 17:21*	*08/08/18 18:31*	*1*

Client Sample ID: ABC-14-0.5

Lab Sample ID: 440-216584-58

Date Collected: 07/25/18 09:18

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1
Aroclor 1254	17	J	50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*07/25/18 18:04*	*07/26/18 19:54*	*1*

Client Sample ID: ABC-14-2.5

Lab Sample ID: 440-216584-59

Date Collected: 07/25/18 09:19

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 15:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*07/25/18 18:15*	*07/26/18 15:07*	*1*

Client Sample ID: ABC-14-5.0

Lab Sample ID: 440-216584-60

Date Collected: 07/25/18 09:20

Matrix: Solid

Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1
Aroclor 1260	ND		49	17	ug/Kg		08/07/18 17:21	08/08/18 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*08/07/18 17:21*	*08/08/18 18:45*	*1*

Client Sample ID: ABC-17-DUP-0.5

Lab Sample ID: 440-216584-61

Date Collected: 07/25/18 07:59
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1
Aroclor 1254	19	J	50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*07/25/18 18:15*	*07/26/18 16:53*	*1*

Client Sample ID: ABC-17-DUP-5.0

Lab Sample ID: 440-216584-62

Date Collected: 07/25/18 08:02
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	F1	49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1
Aroclor 1221	ND		49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1
Aroclor 1232	ND		49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1
Aroclor 1242	ND		49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1
Aroclor 1248	ND		49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1
Aroclor 1254	ND		49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1
Aroclor 1260	ND	F1	49	17	ug/Kg		08/07/18 17:47	08/08/18 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*33*	*X*	*45 - 120*	*08/07/18 17:47*	*08/08/18 12:14*	*1*

Client Sample ID: ABC-19-DUP-0.5

Lab Sample ID: 440-216584-63

Date Collected: 07/25/18 08:10
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*43*	*X*	*45 - 120*	*07/25/18 18:15*	*07/26/18 17:07*	*1*

Client Sample ID: ABC-4-DUP-0.5

Lab Sample ID: 440-216584-64

Date Collected: 07/25/18 08:41
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*07/25/18 18:15*	*07/26/18 17:20*	*1*

Client Sample ID: ABC-2-DUP-2.5

Lab Sample ID: 440-216584-65

Date Collected: 07/25/18 09:00
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*07/25/18 18:15*	*07/26/18 17:34*	*1*

Client Sample ID: ABC-12-DUP-2.5

Lab Sample ID: 440-216584-66

Date Collected: 07/25/18 09:13
Matrix: Solid
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*44*	*X*	*45 - 120*	*07/25/18 18:15*	*07/26/18 17:47*	*1*

Client Sample ID: EB-1

Lab Sample ID: 440-216584-67
Matrix: Water
Date Collected: 07/25/18 09:49
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1
Aroclor 1221	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1
Aroclor 1232	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1
Aroclor 1242	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1
Aroclor 1248	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1
Aroclor 1254	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1
Aroclor 1260	ND		0.96	0.24	ug/L		07/26/18 10:22	07/26/18 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*29 - 115*	*07/26/18 10:22*	*07/26/18 16:00*	*1*

Client Sample ID: DRUM

Lab Sample ID: 440-216584-68
Matrix: Solid
Date Collected: 07/25/18 09:55
Date Received: 07/25/18 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
1,1,1-Trichloroethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,1,2-Trichloroethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,1-Dichloroethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,1-Dichloroethene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
1,1-Dichloropropene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,2,3-Trichlorobenzene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
1,2,3-Trichloropropane	ND		9.9	0.99	ug/Kg			07/27/18 09:26	1
1,2,4-Trichlorobenzene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
1,2,4-Trimethylbenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			07/27/18 09:26	1
1,2-Dichlorobenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,2-Dichloroethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,2-Dichloropropane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,3,5-Trimethylbenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,3-Dichlorobenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,3-Dichloropropane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
1,4-Dichlorobenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
2,2-Dichloropropane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
2-Chlorotoluene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
4-Chlorotoluene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Benzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Bromobenzene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Bromoform	ND		5.0	2.0	ug/Kg			07/27/18 09:26	1
Bromomethane	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Carbon tetrachloride	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Chlorobenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Chloroethane	ND		5.0	2.0	ug/Kg			07/27/18 09:26	1
Chloroform	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Chloromethane	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
cis-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
cis-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1

Client Sample ID: DRUM
Date Collected: 07/25/18 09:55
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-68
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			07/27/18 09:26	1
Ethylbenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Hexachlorobutadiene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Isopropylbenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			07/27/18 09:26	1
Methylene Chloride	ND		20	5.0	ug/Kg			07/27/18 09:26	1
Naphthalene	ND		5.0	2.0	ug/Kg			07/27/18 09:26	1
n-Butylbenzene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
N-Propylbenzene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
o-Xylene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
sec-Butylbenzene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Styrene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
tert-Butylbenzene	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Tetrachloroethene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Toluene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
trans-1,2-Dichloroethene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
trans-1,3-Dichloropropene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Trichloroethene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Trichlorofluoromethane	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Vinyl chloride	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
1,2-Dibromoethane (EDB)	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Bromochloromethane	ND		5.0	0.99	ug/Kg			07/27/18 09:26	1
Bromodichloromethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
Dibromochloromethane	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1
p-Isopropyltoluene	ND		2.0	0.99	ug/Kg			07/27/18 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*		*07/27/18 09:26*	*1*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*07/27/18 09:26*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*07/27/18 09:26*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			07/27/18 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*		*07/27/18 11:21*	*1*

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		4.9	2.5	mg/Kg		07/25/18 17:41	07/26/18 19:08	1
C23-C40	**13**		4.9	2.5	mg/Kg		07/25/18 17:41	07/26/18 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*43*		*40 - 140*	*07/25/18 17:41*	*07/26/18 19:08*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1

Client Sample ID: DRUM

Date Collected: 07/25/18 09:55
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-68

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*07/25/18 18:04*	*07/26/18 20:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Arsenic	**4.1**		3.0	1.5	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Barium	**140**		1.5	0.74	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Beryllium	**0.45**	**J**	0.50	0.25	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Cadmium	**1.3**		0.50	0.25	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Chromium	**59**		0.99	0.50	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Cobalt	**9.8**		0.99	0.50	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Copper	**28**		2.0	1.1	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Lead	**3.6**		2.0	0.99	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Molybdenum	**2.0**		2.0	0.99	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Nickel	**52**		2.0	0.99	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Selenium	ND		3.0	1.7	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Silver	ND		1.5	0.88	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Thallium	ND		9.9	5.0	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Vanadium	**63**		0.99	0.50	mg/Kg		07/26/18 07:54	07/27/18 01:43	5
Zinc	**74**		5.0	2.5	mg/Kg		07/26/18 07:54	07/27/18 01:43	5

Method: 6020 - Metals (ICP/MS) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		800	360	ug/L			08/06/18 14:52	40

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.020	0.012	mg/Kg		07/25/18 18:50	07/25/18 20:54	1

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(79-123)	(79-120)	(60-120)
440-216584-68	DRUM	109	104	102
440-216584-68 MS	DRUM	112	98	105
440-216584-68 MSD	DRUM	102	107	100
LCS 440-489957/4	Lab Control Sample	103	101	99
MB 440-489957/3	Method Blank	109	98	102

Surrogate Legend

TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-216584-68	DRUM	82
440-216584-68 MS	DRUM	87
440-216584-68 MSD	DRUM	82
LCS 440-489977/3	Lab Control Sample	89
LCSD 440-489977/4	Lab Control Sample Dup	108
MB 440-489977/5	Method Blank	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-216531-A-1-B MS	Matrix Spike	60
440-216531-A-1-C MSD	Matrix Spike Duplicate	69
440-216584-68	DRUM	43
LCS 440-489609/2-A	Lab Control Sample	79
MB 440-489609/1-A	Method Blank	80

Surrogate Legend

OTCN = n-Octacosane

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

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-216584-1	ABC-15-0.5	66
440-216584-1 MS	ABC-15-0.5	61

Surrogate Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	Client Sample ID	DCB2 (45-120)						
440-216584-1 MSD	ABC-15-0.5	63						
440-216584-2	ABC-15-2.5	63						
440-216584-4	ABC-16-0.5	71						
440-216584-5	ABC-16-2.5	63						
440-216584-7	ABC-17-0.5	67						
440-216584-8	ABC-17-2.5	49						
440-216584-10	ABC-18-0.5	61						
440-216584-11	ABC-18-2.5	50						
440-216584-13	ABC-9-0.5	77						
440-216584-14	ABC-9-2.5	78						
440-216584-16	ABC-19-0.5	72						
440-216584-17	ABC-19-2.5	81						
440-216584-19	ABC-20-0.5	49						
440-216584-20	ABC-20-2.5	53						
440-216584-22	ABC-8-0.5	53						
440-216584-23	ABC-8-2.5	55						
440-216584-25	ABC-7-0.5	70						
440-216584-26	ABC-7-2.5	69						
440-216584-28	ABC-6-0.5	77						
440-216584-29	ABC-6-2.5	70						
440-216584-31	ABC-5-0.5	59						
440-216584-31 MS	ABC-5-0.5	59						
440-216584-31 MSD	ABC-5-0.5	57						
440-216584-32	ABC-5-2.5	87						
440-216584-34	ABC-4-0.5	69						
440-216584-35	ABC-4-2.5	69						
440-216584-37	ABC-3-0.5	80						
440-216584-38	ABC-3-2.5	85						
440-216584-40	ABC-2-0.5	81						
440-216584-41	ABC-2-2.5	50						
440-216584-43	ABC-1-0.5	56						
440-216584-44	ABC-1-2.5	78						
440-216584-46	ABC-10-0.5	80						
440-216584-47	ABC-10-2.5	81						
440-216584-49	ABC-11-0.5	79						
440-216584-50	ABC-11-2.5	74						
440-216584-52	ABC-12-0.5	40 X						
440-216584-53	ABC-12-2.5	76						
440-216584-55	ABC-13-0.5	43 X						
440-216584-56	ABC-13-2.5	63						
440-216584-58	ABC-14-0.5	74						
440-216584-59	ABC-14-2.5	49						
440-216584-59 MS	ABC-14-2.5	56						
440-216584-59 MSD	ABC-14-2.5	58						
440-216584-61	ABC-17-DUP-0.5	73						
440-216584-63	ABC-19-DUP-0.5	43 X						
440-216584-64	ABC-4-DUP-0.5	56						
440-216584-65	ABC-2-DUP-2.5	61						
440-216584-66	ABC-12-DUP-2.5	44 X						

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
440-216584-68	DRUM	70
LCS 440-489617/2-A	Lab Control Sample	75
LCS 440-489620/2-A	Lab Control Sample	69
LCS 440-489622/2-A	Lab Control Sample	69
MB 440-489617/1-A	Method Blank	82
MB 440-489620/1-A	Method Blank	74
MB 440-489622/1-A	Method Blank	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB1 (45-120)
440-216584-3	ABC-15-5.0	68
440-216584-3 MS	ABC-15-5.0	41 X
440-216584-3 MSD	ABC-15-5.0	43 X
440-216584-6	ABC-16-5.0	59
440-216584-9	ABC-17-5.0	52
440-216584-12	ABC-18-5.0	53
440-216584-15	ABC-9-5.0	58
440-216584-18	ABC-19-5.0	59
440-216584-21	ABC-20-5.0	52
440-216584-24	ABC-8-5.0	68
440-216584-27	ABC-7-5.0	77
440-216584-30	ABC-6-5.0	50
440-216584-33	ABC-5-5.0	62
440-216584-36	ABC-4-5.0	77
440-216584-39	ABC-3-5.0	58
440-216584-42	ABC-2-5.0	46
440-216584-45	ABC-1-5.0	60
440-216584-48	ABC-10-5.0	59
440-216584-51	ABC-11-5.0	51
440-216584-54	ABC-12-5.0	74
440-216584-57	ABC-13-5.0	57
440-216584-60	ABC-14-5.0	56
440-216584-62	ABC-17-DUP-5.0	33 X
440-216584-62 MS	ABC-17-DUP-5.0	40 X
440-216584-62 MSD	ABC-17-DUP-5.0	39 X
LCS 440-492053/2-A	Lab Control Sample	84
LCS 440-492064/2-A	Lab Control Sample	85
MB 440-492053/1-A	Method Blank	82
MB 440-492064/1-A	Method Blank	91

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Surrogate Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	DCB2 (29-115)								
440-216584-67	EB-1	80								
LCS 440-489754/2-A	Lab Control Sample	71								
LCSD 440-489754/3-A	Lab Control Sample Dup	70								
MB 440-489754/1-A	Method Blank	73								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics(DRO)/Oil Range Organics (ORO)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
6020	Metals (ICP/MS)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
7471A	Preparation, Mercury	SW846	TAL IRV
CA WET Citrate	California - Waste Extraction Test with Citrate Leach	CA-WET	TAL IRV

Protocol References:

CA-WET = California Waste Extraction Test, from Title 22

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

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-15-0.5
Date Collected: 07/25/18 07:50
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 12:53	JM	TAL IRV

Client Sample ID: ABC-15-2.5
Date Collected: 07/25/18 07:52
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 10:43	JM	TAL IRV

Client Sample ID: ABC-15-5.0
Date Collected: 07/25/18 07:54
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.33 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 14:13	JM	TAL IRV

Client Sample ID: ABC-16-0.5
Date Collected: 07/25/18 07:55
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 10:57	JM	TAL IRV

Client Sample ID: ABC-16-2.5
Date Collected: 07/25/18 07:56
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 11:10	JM	TAL IRV

Client Sample ID: ABC-16-5.0
Date Collected: 07/25/18 07:57
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 14:27	JM	TAL IRV

Lab Chronicle

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-17-0.5
Date Collected: 07/25/18 07:58
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 11:24	JM	TAL IRV

Client Sample ID: ABC-17-2.5
Date Collected: 07/25/18 08:00
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.26 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 11:37	JM	TAL IRV

Client Sample ID: ABC-17-5.0
Date Collected: 07/25/18 08:01
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 14:40	JM	TAL IRV

Client Sample ID: ABC-18-0.5
Date Collected: 07/25/18 08:03
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 11:51	JM	TAL IRV

Client Sample ID: ABC-18-2.5
Date Collected: 07/25/18 08:04
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 12:05	JM	TAL IRV

Client Sample ID: ABC-18-5.0
Date Collected: 07/25/18 08:05
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			14.99 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 14:54	JM	TAL IRV

Client Sample ID: ABC-9-0.5
Date Collected: 07/25/18 08:06
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.07 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 12:18	JM	TAL IRV

Client Sample ID: ABC-9-2.5
Date Collected: 07/25/18 08:07
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.42 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 12:32	JM	TAL IRV

Client Sample ID: ABC-9-5.0
Date Collected: 07/25/18 08:08
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 15:07	JM	TAL IRV

Client Sample ID: ABC-19-0.5
Date Collected: 07/25/18 08:09
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 12:45	JM	TAL IRV

Client Sample ID: ABC-19-2.5
Date Collected: 07/25/18 08:11
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.45 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 12:59	JM	TAL IRV

Client Sample ID: ABC-19-5.0
Date Collected: 07/25/18 08:12
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.27 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 15:21	JM	TAL IRV

Client Sample ID: ABC-20-0.5
Date Collected: 07/25/18 08:13
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.04 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 13:13	JM	TAL IRV

Client Sample ID: ABC-20-2.5
Date Collected: 07/25/18 08:14
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.39 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 13:26	JM	TAL IRV

Client Sample ID: ABC-20-5.0
Date Collected: 07/25/18 08:15
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.27 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 15:34	JM	TAL IRV

Client Sample ID: ABC-8-0.5
Date Collected: 07/25/18 08:16
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.06 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 13:40	JM	TAL IRV

Client Sample ID: ABC-8-2.5
Date Collected: 07/25/18 08:17
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.43 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 13:53	JM	TAL IRV

Client Sample ID: ABC-8-5.0
Date Collected: 07/25/18 08:18
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.48 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 16:02	JM	TAL IRV

Client Sample ID: ABC-7-0.5
Date Collected: 07/25/18 08:19
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.45 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 14:07	JM	TAL IRV

Client Sample ID: ABC-7-2.5
Date Collected: 07/25/18 08:20
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.35 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 14:21	JM	TAL IRV

Client Sample ID: ABC-7-5.0
Date Collected: 07/25/18 08:21
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.41 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 16:15	JM	TAL IRV

Client Sample ID: ABC-6-0.5
Date Collected: 07/25/18 08:30
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 14:34	JM	TAL IRV

Client Sample ID: ABC-6-2.5
Date Collected: 07/25/18 08:31
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	489617	07/25/18 17:52	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 14:48	JM	TAL IRV

Client Sample ID: ABC-6-5.0
Date Collected: 07/25/18 08:32
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 16:29	JM	TAL IRV

Client Sample ID: ABC-5-0.5
Date Collected: 07/25/18 08:33
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 14:00	JM	TAL IRV

Client Sample ID: ABC-5-2.5
Date Collected: 07/25/18 08:34
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.37 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 16:02	JM	TAL IRV

Client Sample ID: ABC-5-5.0
Date Collected: 07/25/18 08:35
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 16:43	JM	TAL IRV

Client Sample ID: ABC-4-0.5
Date Collected: 07/25/18 08:40
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 16:16	JM	TAL IRV

Client Sample ID: ABC-4-2.5
Date Collected: 07/25/18 08:42
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 16:29	JM	TAL IRV

Client Sample ID: ABC-4-5.0
Date Collected: 07/25/18 08:43
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 16:56	JM	TAL IRV

Lab Chronicle

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-3-0.5
Date Collected: 07/25/18 08:44
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 16:43	JM	TAL IRV

Client Sample ID: ABC-3-2.5
Date Collected: 07/25/18 08:45
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.19 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 16:57	JM	TAL IRV

Client Sample ID: ABC-3-5.0
Date Collected: 07/25/18 08:46
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.45 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 17:10	JM	TAL IRV

Client Sample ID: ABC-2-0.5
Date Collected: 07/25/18 08:58
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 17:10	JM	TAL IRV

Client Sample ID: ABC-2-2.5
Date Collected: 07/25/18 08:59
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 17:24	JM	TAL IRV

Client Sample ID: ABC-2-5.0
Date Collected: 07/25/18 09:01
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 17:23	JM	TAL IRV

Lab Chronicle

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-1-0.5
Date Collected: 07/25/18 09:02
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 17:37	JM	TAL IRV

Client Sample ID: ABC-1-2.5
Date Collected: 07/25/18 09:03
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.22 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 17:51	JM	TAL IRV

Client Sample ID: ABC-1-5.0
Date Collected: 07/25/18 09:04
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-45
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.43 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 17:37	JM	TAL IRV

Client Sample ID: ABC-10-0.5
Date Collected: 07/25/18 09:05
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 18:05	JM	TAL IRV

Client Sample ID: ABC-10-2.5
Date Collected: 07/25/18 09:06
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-47
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.40 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 18:18	JM	TAL IRV

Client Sample ID: ABC-10-5.0
Date Collected: 07/25/18 09:07
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-48
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 17:51	JM	TAL IRV

Lab Chronicle

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: ABC-11-0.5
Date Collected: 07/25/18 09:08
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.34 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 18:32	JM	TAL IRV

Client Sample ID: ABC-11-2.5
Date Collected: 07/25/18 09:09
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-50
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.25 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 18:46	JM	TAL IRV

Client Sample ID: ABC-11-5.0
Date Collected: 07/25/18 09:10
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-51
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 18:04	JM	TAL IRV

Client Sample ID: ABC-12-0.5
Date Collected: 07/25/18 09:11
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 18:59	JM	TAL IRV

Client Sample ID: ABC-12-2.5
Date Collected: 07/25/18 09:12
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.17 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 19:13	JM	TAL IRV

Client Sample ID: ABC-12-5.0
Date Collected: 07/25/18 09:14
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-54
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.15 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 18:18	JM	TAL IRV

Client Sample ID: ABC-13-0.5
Date Collected: 07/25/18 09:15
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.17 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 19:26	JM	TAL IRV

Client Sample ID: ABC-13-2.5
Date Collected: 07/25/18 09:16
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-56
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.45 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 19:40	JM	TAL IRV

Client Sample ID: ABC-13-5.0
Date Collected: 07/25/18 09:17
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-57
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 18:31	JM	TAL IRV

Client Sample ID: ABC-14-0.5
Date Collected: 07/25/18 09:18
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.06 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 19:54	JM	TAL IRV

Client Sample ID: ABC-14-2.5
Date Collected: 07/25/18 09:19
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-59
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	2 mL	489622	07/25/18 18:15	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 15:07	JM	TAL IRV

Client Sample ID: ABC-14-5.0
Date Collected: 07/25/18 09:20
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.18 g	2 mL	492053	08/07/18 17:21	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 18:45	JM	TAL IRV

Client Sample ID: ABC-17-DUP-0.5

Lab Sample ID: 440-216584-61

Date Collected: 07/25/18 07:59
Matrix: Solid
Date Received: 07/25/18 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	2 mL	489622	07/25/18 18:15	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 16:53	JM	TAL IRV

Client Sample ID: ABC-17-DUP-5.0

Lab Sample ID: 440-216584-62

Date Collected: 07/25/18 08:02
Matrix: Solid
Date Received: 07/25/18 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.33 g	2 mL	492064	08/07/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			492155	08/08/18 12:14	JM	TAL IRV

Client Sample ID: ABC-19-DUP-0.5

Lab Sample ID: 440-216584-63

Date Collected: 07/25/18 08:10
Matrix: Solid
Date Received: 07/25/18 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	489622	07/25/18 18:15	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 17:07	JM	TAL IRV

Client Sample ID: ABC-4-DUP-0.5

Lab Sample ID: 440-216584-64

Date Collected: 07/25/18 08:41
Matrix: Solid
Date Received: 07/25/18 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	2 mL	489622	07/25/18 18:15	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 17:20	JM	TAL IRV

Client Sample ID: ABC-2-DUP-2.5

Lab Sample ID: 440-216584-65

Date Collected: 07/25/18 09:00
Matrix: Solid
Date Received: 07/25/18 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.12 g	2 mL	489622	07/25/18 18:15	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 17:34	JM	TAL IRV

Client Sample ID: ABC-12-DUP-2.5

Lab Sample ID: 440-216584-66

Date Collected: 07/25/18 09:13
Matrix: Solid
Date Received: 07/25/18 13:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.07 g	2 mL	489622	07/25/18 18:15	VA	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 17:47	JM	TAL IRV

Lab Chronicle

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Client Sample ID: EB-1

Date Collected: 07/25/18 09:49
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-67

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			1045 mL	2 mL	489754	07/26/18 10:22	L1H	TAL IRV
Total/NA	Analysis	8082		1			489702	07/26/18 16:00	JM	TAL IRV

Client Sample ID: DRUM

Date Collected: 07/25/18 09:55
Date Received: 07/25/18 13:00

Lab Sample ID: 440-216584-68

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5.05 g	10 mL	489957	07/27/18 09:26	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	489977	07/27/18 11:21	LNP	TAL IRV
Total/NA	Prep	3546			15.29 g	1 mL	489609	07/25/18 17:41	VA	TAL IRV
Total/NA	Analysis	8015B		1			489710	07/26/18 19:08	LMB	TAL IRV
Total/NA	Prep	3546			15.14 g	2 mL	489620	07/25/18 18:04	VA	TAL IRV
Total/NA	Analysis	8082		1			489699	07/26/18 20:07	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	489685	07/26/18 07:54	DT	TAL IRV
Total/NA	Analysis	6010B		5			489997	07/27/18 01:43	B1H	TAL IRV
STLC Citrate	Leach	CA WET Citrate			50.03 g	500 mL	490816	07/31/18 17:43	CDH	TAL IRV
STLC Citrate	Analysis	6020		40			491794	08/06/18 14:52	MQP	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	489625	07/25/18 18:50	DB	TAL IRV
Total/NA	Analysis	7471A		1			489802	07/25/18 20:54	DB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

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

Lab Sample ID: MB 440-489957/3
Matrix: Solid
Analysis Batch: 489957

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			07/27/18 08:08	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			07/27/18 08:08	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Benzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Bromobenzene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Bromoform	ND		5.0	2.0	ug/Kg			07/27/18 08:08	1
Bromomethane	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Chloroethane	ND		5.0	2.0	ug/Kg			07/27/18 08:08	1
Chloroform	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Chloromethane	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Dibromomethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			07/27/18 08:08	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			07/27/18 08:08	1
Methylene Chloride	ND		20	5.0	ug/Kg			07/27/18 08:08	1
Naphthalene	ND		5.0	2.0	ug/Kg			07/27/18 08:08	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
o-Xylene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Styrene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1

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

Lab Sample ID: MB 440-489957/3
Matrix: Solid
Analysis Batch: 489957

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Trichloroethene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			07/27/18 08:08	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			07/27/18 08:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*79 - 123*		*07/27/18 08:08*	*1*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*		*07/27/18 08:08*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*		*07/27/18 08:08*	*1*

Lab Sample ID: LCS 440-489957/4
Matrix: Solid
Analysis Batch: 489957

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	51.4		ug/Kg		103	70 - 130
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	65 - 135
1,1,2,2-Tetrachloroethane	50.0	58.4		ug/Kg		117	55 - 140
1,1,2-Trichloroethane	50.0	59.2		ug/Kg		118	65 - 135
1,1-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1-Dichloroethene	50.0	50.5		ug/Kg		101	70 - 125
1,1-Dichloropropene	50.0	51.4		ug/Kg		103	70 - 130
1,2,3-Trichlorobenzene	50.0	54.8		ug/Kg		110	60 - 130
1,2,3-Trichloropropane	50.0	56.7		ug/Kg		113	60 - 135
1,2,4-Trichlorobenzene	50.0	53.0		ug/Kg		106	70 - 135
1,2,4-Trimethylbenzene	50.0	52.5		ug/Kg		105	70 - 125
1,2-Dibromo-3-Chloropropane	50.0	60.6		ug/Kg		121	50 - 135
1,2-Dichlorobenzene	50.0	51.6		ug/Kg		103	75 - 120
1,2-Dichloroethane	50.0	53.5		ug/Kg		107	60 - 140
1,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 130
1,3,5-Trimethylbenzene	50.0	53.3		ug/Kg		107	70 - 125
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	75 - 125
1,3-Dichloropropane	50.0	57.9		ug/Kg		116	70 - 125
1,4-Dichlorobenzene	50.0	52.7		ug/Kg		105	75 - 120
2,2-Dichloropropane	50.0	61.5		ug/Kg		123	60 - 145
2-Chlorotoluene	50.0	53.3		ug/Kg		107	70 - 125
4-Chlorotoluene	50.0	53.3		ug/Kg		107	75 - 125
Benzene	50.0	50.9		ug/Kg		102	65 - 120
Bromobenzene	50.0	51.6		ug/Kg		103	75 - 120
Bromoform	50.0	59.2		ug/Kg		118	55 - 135
Bromomethane	50.0	46.2		ug/Kg		92	60 - 145

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

Lab Sample ID: LCS 440-489957/4
Matrix: Solid
Analysis Batch: 489957

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	50.8		ug/Kg		102	65 - 140
Chlorobenzene	50.0	51.8		ug/Kg		104	75 - 120
Chloroethane	50.0	45.0		ug/Kg		90	60 - 140
Chloroform	50.0	53.3		ug/Kg		107	70 - 130
Chloromethane	50.0	41.3		ug/Kg		83	45 - 145
cis-1,2-Dichloroethene	50.0	50.8		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	58.5		ug/Kg		117	75 - 125
Dibromomethane	50.0	50.6		ug/Kg		101	70 - 130
Dichlorodifluoromethane	50.0	36.3		ug/Kg		73	35 - 160
Ethylbenzene	50.0	54.4		ug/Kg		109	70 - 125
Hexachlorobutadiene	50.0	54.6		ug/Kg		109	60 - 135
Isopropylbenzene	50.0	54.3		ug/Kg		109	75 - 130
m,p-Xylene	50.0	53.5		ug/Kg		107	70 - 125
Methylene Chloride	50.0	46.3		ug/Kg		93	55 - 135
Naphthalene	50.0	57.8		ug/Kg		116	55 - 135
n-Butylbenzene	50.0	56.6		ug/Kg		113	70 - 130
N-Propylbenzene	50.0	55.5		ug/Kg		111	70 - 130
o-Xylene	50.0	52.3		ug/Kg		105	70 - 125
sec-Butylbenzene	50.0	55.3		ug/Kg		111	70 - 125
Styrene	50.0	54.9		ug/Kg		110	75 - 130
tert-Butylbenzene	50.0	53.3		ug/Kg		107	70 - 125
Tetrachloroethene	50.0	54.4		ug/Kg		109	70 - 125
Toluene	50.0	58.0		ug/Kg		116	70 - 125
trans-1,2-Dichloroethene	50.0	51.7		ug/Kg		103	70 - 125
trans-1,3-Dichloropropene	50.0	54.9		ug/Kg		110	70 - 135
Trichloroethene	50.0	53.4		ug/Kg		107	70 - 125
Trichlorofluoromethane	50.0	50.0		ug/Kg		100	60 - 145
Vinyl chloride	50.0	44.5		ug/Kg		89	55 - 135
1,2-Dibromoethane (EDB)	50.0	55.9		ug/Kg		112	70 - 130
Bromochloromethane	50.0	50.5		ug/Kg		101	70 - 135
Bromodichloromethane	50.0	53.1		ug/Kg		106	70 - 135
Dibromochloromethane	50.0	51.1		ug/Kg		102	65 - 140
p-Isopropyltoluene	50.0	53.6		ug/Kg		107	75 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*79 - 123*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Dibromofluoromethane (Surr)	*99*		*60 - 120*

Lab Sample ID: 440-216584-68 MS
Matrix: Solid
Analysis Batch: 489957

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	ND		49.5	54.5		ug/Kg		110	65 - 145
1,1,1-Trichloroethane	ND		49.5	51.6		ug/Kg		104	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.5	60.0		ug/Kg		121	40 - 160
1,1,2-Trichloroethane	ND		49.5	61.8		ug/Kg		125	65 - 140

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

Lab Sample ID: 440-216584-68 MS
Matrix: Solid
Analysis Batch: 489957

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	ND		49.5	49.4		ug/Kg		100	65 - 135
1,1-Dichloroethene	ND		49.5	51.1		ug/Kg		103	65 - 135
1,1-Dichloropropene	ND		49.5	51.6		ug/Kg		104	65 - 135
1,2,3-Trichlorobenzene	ND		49.5	52.8		ug/Kg		107	45 - 145
1,2,3-Trichloropropane	ND		49.5	63.0		ug/Kg		127	50 - 150
1,2,4-Trichlorobenzene	ND		49.5	49.6		ug/Kg		100	50 - 140
1,2,4-Trimethylbenzene	ND		49.5	51.2		ug/Kg		103	65 - 140
1,2-Dibromo-3-Chloropropane	ND		49.5	57.7		ug/Kg		117	40 - 150
1,2-Dichlorobenzene	ND		49.5	49.0		ug/Kg		99	70 - 130
1,2-Dichloroethane	ND		49.5	51.6		ug/Kg		104	60 - 150
1,2-Dichloropropane	ND		49.5	53.0		ug/Kg		107	65 - 130
1,3,5-Trimethylbenzene	ND		49.5	51.8		ug/Kg		105	65 - 135
1,3-Dichlorobenzene	ND		49.5	48.0		ug/Kg		97	70 - 130
1,3-Dichloropropane	ND		49.5	61.5		ug/Kg		124	65 - 140
1,4-Dichlorobenzene	ND		49.5	50.3		ug/Kg		102	70 - 130
2,2-Dichloropropane	ND		49.5	60.5		ug/Kg		122	65 - 150
2-Chlorotoluene	ND		49.5	51.2		ug/Kg		103	60 - 135
4-Chlorotoluene	ND		49.5	51.5		ug/Kg		104	65 - 135
Benzene	ND		49.5	49.4		ug/Kg		100	65 - 130
Bromobenzene	ND		49.5	51.0		ug/Kg		103	65 - 140
Bromoform	ND		49.5	66.9		ug/Kg		135	50 - 145
Bromomethane	ND		49.5	46.1		ug/Kg		93	60 - 155
Carbon tetrachloride	ND		49.5	51.1		ug/Kg		103	60 - 145
Chlorobenzene	ND		49.5	55.5		ug/Kg		112	70 - 130
Chloroethane	ND		49.5	43.9		ug/Kg		89	60 - 150
Chloroform	ND		49.5	52.0		ug/Kg		105	65 - 135
Chloromethane	ND		49.5	41.1		ug/Kg		83	40 - 145
cis-1,2-Dichloroethene	ND		49.5	49.7		ug/Kg		100	65 - 135
cis-1,3-Dichloropropene	ND		49.5	63.0		ug/Kg		127	70 - 135
Dibromomethane	ND		49.5	51.4		ug/Kg		104	65 - 140
Dichlorodifluoromethane	ND		49.5	36.3		ug/Kg		73	30 - 160
Ethylbenzene	ND		49.5	55.8		ug/Kg		113	70 - 135
Hexachlorobutadiene	ND		49.5	46.4		ug/Kg		94	50 - 145
Isopropylbenzene	ND		49.5	55.3		ug/Kg		112	70 - 145
m,p-Xylene	ND		49.5	56.4		ug/Kg		114	70 - 130
Methylene Chloride	ND		49.5	49.5		ug/Kg		100	55 - 145
Naphthalene	ND		49.5	59.0		ug/Kg		119	40 - 150
n-Butylbenzene	ND		49.5	50.9		ug/Kg		103	55 - 145
N-Propylbenzene	ND		49.5	54.3		ug/Kg		110	65 - 140
o-Xylene	ND		49.5	57.9		ug/Kg		117	65 - 130
sec-Butylbenzene	ND		49.5	50.9		ug/Kg		103	60 - 135
Styrene	ND		49.5	54.6		ug/Kg		110	70 - 140
tert-Butylbenzene	ND		49.5	49.8		ug/Kg		101	60 - 140
Tetrachloroethene	ND		49.5	58.5		ug/Kg		118	65 - 135
Toluene	ND		49.5	59.8		ug/Kg		121	70 - 130
trans-1,2-Dichloroethene	ND		49.5	50.0		ug/Kg		101	70 - 135
trans-1,3-Dichloropropene	ND		49.5	58.4		ug/Kg		118	60 - 145
Trichloroethene	ND		49.5	52.2		ug/Kg		106	65 - 140

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

Lab Sample ID: 440-216584-68 MS
Matrix: Solid
Analysis Batch: 489957

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	ND		49.5	48.7		ug/Kg		98	55 - 155
Vinyl chloride	ND		49.5	46.9		ug/Kg		95	55 - 140
1,2-Dibromoethane (EDB)	ND		49.5	59.8		ug/Kg		121	65 - 140
Bromochloromethane	ND		49.5	52.8		ug/Kg		107	65 - 145
Bromodichloromethane	ND		49.5	52.0		ug/Kg		105	65 - 145
Dibromochloromethane	ND		49.5	57.8		ug/Kg		117	60 - 145
p-Isopropyltoluene	ND		49.5	50.7		ug/Kg		103	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*112*		*79 - 123*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*105*		*60 - 120*

Lab Sample ID: 440-216584-68 MSD
Matrix: Solid
Analysis Batch: 489957

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		50.0	49.7		ug/Kg		99	65 - 145	9	20
1,1,1-Trichloroethane	ND		50.0	50.5		ug/Kg		101	65 - 145	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	63.6		ug/Kg		127	40 - 160	6	30
1,1,2-Trichloroethane	ND		50.0	61.1		ug/Kg		122	65 - 140	1	30
1,1-Dichloroethane	ND		50.0	50.5		ug/Kg		101	65 - 135	2	25
1,1-Dichloroethene	ND		50.0	49.7		ug/Kg		99	65 - 135	3	25
1,1-Dichloropropene	ND		50.0	50.0		ug/Kg		100	65 - 135	3	20
1,2,3-Trichlorobenzene	ND		50.0	58.4		ug/Kg		117	45 - 145	10	30
1,2,3-Trichloropropane	ND		50.0	65.3		ug/Kg		131	50 - 150	4	30
1,2,4-Trichlorobenzene	ND		50.0	52.4		ug/Kg		105	50 - 140	6	30
1,2,4-Trimethylbenzene	ND		50.0	54.6		ug/Kg		109	65 - 140	6	25
1,2-Dibromo-3-Chloropropane	ND		50.0	63.9		ug/Kg		128	40 - 150	10	30
1,2-Dichlorobenzene	ND		50.0	52.8		ug/Kg		106	70 - 130	7	25
1,2-Dichloroethane	ND		50.0	53.7		ug/Kg		107	60 - 150	4	25
1,2-Dichloropropane	ND		50.0	51.8		ug/Kg		104	65 - 130	2	20
1,3,5-Trimethylbenzene	ND		50.0	56.3		ug/Kg		113	65 - 135	8	25
1,3-Dichlorobenzene	ND		50.0	54.4		ug/Kg		109	70 - 130	12	25
1,3-Dichloropropane	ND		50.0	57.4		ug/Kg		115	65 - 140	7	25
1,4-Dichlorobenzene	ND		50.0	54.4		ug/Kg		109	70 - 130	8	25
2,2-Dichloropropane	ND		50.0	56.6		ug/Kg		113	65 - 150	7	25
2-Chlorotoluene	ND		50.0	55.9		ug/Kg		112	60 - 135	9	25
4-Chlorotoluene	ND		50.0	56.0		ug/Kg		112	65 - 135	8	25
Benzene	ND		50.0	50.0		ug/Kg		100	65 - 130	1	20
Bromobenzene	ND		50.0	55.8		ug/Kg		112	65 - 140	9	25
Bromoform	ND		50.0	59.0		ug/Kg		118	50 - 145	12	30
Bromomethane	ND		50.0	45.8		ug/Kg		92	60 - 155	1	25
Carbon tetrachloride	ND		50.0	47.3		ug/Kg		95	60 - 145	8	25
Chlorobenzene	ND		50.0	49.9		ug/Kg		100	70 - 130	11	25
Chloroethane	ND		50.0	41.5		ug/Kg		83	60 - 150	6	25
Chloroform	ND		50.0	50.1		ug/Kg		100	65 - 135	4	20

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

Lab Sample ID: 440-216584-68 MSD
Matrix: Solid
Analysis Batch: 489957

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloromethane	ND		50.0	40.1		ug/Kg		80	40 - 145	2	25
cis-1,2-Dichloroethene	ND		50.0	50.5		ug/Kg		101	65 - 135	2	25
cis-1,3-Dichloropropene	ND		50.0	58.7		ug/Kg		117	70 - 135	7	25
Dibromomethane	ND		50.0	49.4		ug/Kg		99	65 - 140	4	25
Dichlorodifluoromethane	ND		50.0	34.0		ug/Kg		68	30 - 160	6	35
Ethylbenzene	ND		50.0	52.5		ug/Kg		105	70 - 135	6	25
Hexachlorobutadiene	ND		50.0	49.0		ug/Kg		98	50 - 145	5	35
Isopropylbenzene	ND		50.0	51.8		ug/Kg		104	70 - 145	6	25
m,p-Xylene	ND		50.0	51.5		ug/Kg		103	70 - 130	9	25
Methylene Chloride	ND		50.0	52.6		ug/Kg		105	55 - 145	6	25
Naphthalene	ND		50.0	60.0		ug/Kg		120	40 - 150	2	40
n-Butylbenzene	ND		50.0	55.2		ug/Kg		110	55 - 145	8	30
N-Propylbenzene	ND		50.0	59.6		ug/Kg		119	65 - 140	9	25
o-Xylene	ND		50.0	52.4		ug/Kg		105	65 - 130	10	25
sec-Butylbenzene	ND		50.0	55.7		ug/Kg		111	60 - 135	9	25
Styrene	ND		50.0	50.6		ug/Kg		101	70 - 140	8	25
tert-Butylbenzene	ND		50.0	54.5		ug/Kg		109	60 - 140	9	25
Tetrachloroethene	ND		50.0	53.6		ug/Kg		107	65 - 135	9	25
Toluene	ND		50.0	57.0		ug/Kg		114	70 - 130	5	20
trans-1,2-Dichloroethene	ND		50.0	52.4		ug/Kg		105	70 - 135	5	25
trans-1,3-Dichloropropene	ND		50.0	55.1		ug/Kg		110	60 - 145	6	25
Trichloroethene	ND		50.0	53.3		ug/Kg		107	65 - 140	2	25
Trichlorofluoromethane	ND		50.0	48.7		ug/Kg		97	55 - 155	0	25
Vinyl chloride	ND		50.0	42.8		ug/Kg		86	55 - 140	9	30
1,2-Dibromoethane (EDB)	ND		50.0	55.7		ug/Kg		111	65 - 140	7	25
Bromochloromethane	ND		50.0	50.3		ug/Kg		101	65 - 145	5	25
Bromodichloromethane	ND		50.0	49.6		ug/Kg		99	65 - 145	5	20
Dibromochloromethane	ND		50.0	56.8		ug/Kg		114	60 - 145	2	25
p-Isopropyltoluene	ND		50.0	55.2		ug/Kg		110	60 - 140	8	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*79 - 123*
4-Bromofluorobenzene (Surr)	*107*		*79 - 120*
Dibromofluoromethane (Surr)	*100*		*60 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-489977/5
Matrix: Solid
Analysis Batch: 489977

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			07/27/18 10:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*		*07/27/18 10:07*	*1*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCS 440-489977/3
Matrix: Solid
Analysis Batch: 489977

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1420		ug/Kg		89	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*65 - 140*

Lab Sample ID: LCSD 440-489977/4
Matrix: Solid
Analysis Batch: 489977

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1550		ug/Kg		97	70 - 135	9	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*65 - 140*

Lab Sample ID: 440-216584-68 MS
Matrix: Solid
Analysis Batch: 489977

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1580	1240		ug/Kg		78	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*87*		*65 - 140*

Lab Sample ID: 440-216584-68 MSD
Matrix: Solid
Analysis Batch: 489977

Client Sample ID: DRUM
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1580	1170		ug/Kg		74	60 - 140	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO)

Lab Sample ID: MB 440-489609/1-A
Matrix: Solid
Analysis Batch: 489710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489609

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	2.5	mg/Kg		07/25/18 17:41	07/26/18 12:06	1
C23-C40	ND		5.0	2.5	mg/Kg		07/25/18 17:41	07/26/18 12:06	1

Method: 8015B - Diesel Range Organics(DRO)/Oil Range Organics (ORO) (Continued)

Lab Sample ID: MB 440-489609/1-A
Matrix: Solid
Analysis Batch: 489710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489609

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	80		40 - 140	07/25/18 17:41	07/26/18 12:06	1

Lab Sample ID: LCS 440-489609/2-A
Matrix: Solid
Analysis Batch: 489710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489609

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	53.6		mg/Kg		80	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	79		40 - 140

Lab Sample ID: 440-216531-A-1-B MS
Matrix: Solid
Analysis Batch: 489710

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 489609

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28	ND		65.0	39.0		mg/Kg		60	40 - 120		

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	60		40 - 140

Lab Sample ID: 440-216531-A-1-C MSD
Matrix: Solid
Analysis Batch: 489710

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 489609

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	ND		66.4	45.8		mg/Kg		69	40 - 120	16	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	69		40 - 140

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

Lab Sample ID: MB 440-489617/1-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489617

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 17:52	07/26/18 12:00	1

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

Lab Sample ID: MB 440-489617/1-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489617

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120	07/25/18 17:52	07/26/18 12:00	1

Lab Sample ID: LCS 440-489617/2-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489617

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	198		ug/Kg		74	65 - 115		
Aroclor 1260			267	195		ug/Kg		73	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	75		45 - 120

Lab Sample ID: 440-216584-1 MS
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: ABC-15-0.5
Prep Type: Total/NA
Prep Batch: 489617

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		259	158		ug/Kg		61	50 - 120		
Aroclor 1260	ND		259	202		ug/Kg		78	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	61		45 - 120

Lab Sample ID: 440-216584-1 MSD
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: ABC-15-0.5
Prep Type: Total/NA
Prep Batch: 489617

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		260	163		ug/Kg		63	50 - 120	3	30
Aroclor 1260	ND		260	204		ug/Kg		79	50 - 125	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	63		45 - 120

Lab Sample ID: MB 440-489620/1-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489620

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:04	07/26/18 13:06	1

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

Lab Sample ID: MB 440-489620/1-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489620

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/25/18 18:04	07/26/18 13:06	1

Lab Sample ID: LCS 440-489620/2-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489620

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	196		ug/Kg		73	65 - 115		
Aroclor 1260			267	186		ug/Kg		70	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	69		45 - 120

Lab Sample ID: 440-216584-31 MS
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: ABC-5-0.5
Prep Type: Total/NA
Prep Batch: 489620

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		265	176		ug/Kg		66	50 - 120		
Aroclor 1260	ND		265	193		ug/Kg		73	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	59		45 - 120

Lab Sample ID: 440-216584-31 MSD
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: ABC-5-0.5
Prep Type: Total/NA
Prep Batch: 489620

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	167		ug/Kg		64	50 - 120	6	30
Aroclor 1260	ND		261	183		ug/Kg		70	50 - 125	5	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	57		45 - 120

Lab Sample ID: MB 440-489622/1-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489622

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1
Aroclor 1221	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1
Aroclor 1232	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1
Aroclor 1242	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1
Aroclor 1248	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1
Aroclor 1254	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1
Aroclor 1260	ND		50	17	ug/Kg		07/25/18 18:15	07/26/18 14:13	1

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

Lab Sample ID: MB 440-489622/1-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489622

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	74		45 - 120	07/25/18 18:15	07/26/18 14:13	1

Lab Sample ID: LCS 440-489622/2-A
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489622

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	192		ug/Kg		72	65 - 115		
Aroclor 1260			267	185		ug/Kg		69	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	69		45 - 120

Lab Sample ID: 440-216584-59 MS
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: ABC-14-2.5
Prep Type: Total/NA
Prep Batch: 489622

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		265	154		ug/Kg		58	50 - 120		
Aroclor 1260	ND		265	149		ug/Kg		56	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	56		45 - 120

Lab Sample ID: 440-216584-59 MSD
Matrix: Solid
Analysis Batch: 489702

Client Sample ID: ABC-14-2.5
Prep Type: Total/NA
Prep Batch: 489622

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	160		ug/Kg		60	50 - 120	4	30
Aroclor 1260	ND		266	157		ug/Kg		59	50 - 125	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	58		45 - 120

Lab Sample ID: MB 440-489754/1-A
Matrix: Water
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489754

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1
Aroclor 1221	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1
Aroclor 1232	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1
Aroclor 1242	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1
Aroclor 1248	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1
Aroclor 1254	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1
Aroclor 1260	ND		1.0	0.25	ug/L		07/26/18 10:22	07/26/18 15:20	1

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

Lab Sample ID: MB 440-489754/1-A
Matrix: Water
Analysis Batch: 489702

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489754

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	73		29 - 115	07/26/18 10:22	07/26/18 15:20	1

Lab Sample ID: LCS 440-489754/2-A
Matrix: Water
Analysis Batch: 489702

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489754

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	2.88		ug/L		72	39 - 145		
Aroclor 1260			4.00	2.81		ug/L		70	37 - 137		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	71		29 - 115

Lab Sample ID: LCSD 440-489754/3-A
Matrix: Water
Analysis Batch: 489702

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 489754

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	2.84		ug/L		71	39 - 145	1	30
Aroclor 1260			4.00	2.78		ug/L		69	37 - 137	1	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	70		29 - 115

Lab Sample ID: MB 440-492053/1-A
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 492053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:21	08/08/18 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	82		45 - 120	08/07/18 17:21	08/08/18 13:19	1

Lab Sample ID: LCS 440-492053/2-A
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492053

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	190		ug/Kg		71	65 - 115		
Aroclor 1260			267	189		ug/Kg		71	65 - 115		

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

Lab Sample ID: LCS 440-492053/2-A
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492053

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	84		45 - 120

Lab Sample ID: 440-216584-3 MS
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: ABC-15-5.0
Prep Type: Total/NA
Prep Batch: 492053

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND	F1	264	103	F1	ug/Kg		39	50 - 120
Aroclor 1260	ND	F1	264	99.1	F1	ug/Kg		38	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	41	X	45 - 120

Lab Sample ID: 440-216584-3 MSD
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: ABC-15-5.0
Prep Type: Total/NA
Prep Batch: 492053

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	265	105	F1	ug/Kg		40	50 - 120	3	30
Aroclor 1260	ND	F1	265	99.4	F1	ug/Kg		38	50 - 125	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	43	X	45 - 120

Lab Sample ID: MB 440-492064/1-A
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 492064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1
Aroclor 1221	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1
Aroclor 1232	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1
Aroclor 1242	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1
Aroclor 1248	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1
Aroclor 1254	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1
Aroclor 1260	ND		50	17	ug/Kg		08/07/18 17:47	08/08/18 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	91		45 - 120	08/07/18 17:47	08/08/18 11:20	1

Lab Sample ID: LCS 440-492064/2-A
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	193		ug/Kg		72	65 - 115
Aroclor 1260	267	192		ug/Kg		72	65 - 115

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

Lab Sample ID: LCS 440-492064/2-A
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 492064

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	85		45 - 120

Lab Sample ID: 440-216584-62 MS
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: ABC-17-DUP-5.0
Prep Type: Total/NA
Prep Batch: 492064

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND	F1	264	97.4	F1	ug/Kg		37	50 - 120
Aroclor 1260	ND	F1	264	91.8	F1	ug/Kg		35	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	40	X	45 - 120

Lab Sample ID: 440-216584-62 MSD
Matrix: Solid
Analysis Batch: 492155

Client Sample ID: ABC-17-DUP-5.0
Prep Type: Total/NA
Prep Batch: 492064

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	260	94.0	F1	ug/Kg		36	50 - 120	4	30
Aroclor 1260	ND	F1	260	87.9	F1	ug/Kg		34	50 - 125	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	39	X	45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-489685/1-A ^5
Matrix: Solid
Analysis Batch: 489997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489685

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Arsenic	ND		3.0	1.5	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Barium	ND		1.5	0.74	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Beryllium	ND		0.50	0.25	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Cadmium	ND		0.50	0.25	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Chromium	ND		0.99	0.50	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Cobalt	ND		0.99	0.50	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Copper	ND		2.0	1.1	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Lead	ND		2.0	0.99	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Molybdenum	ND		2.0	0.99	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Nickel	ND		2.0	0.99	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Selenium	ND		3.0	1.7	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Silver	ND		1.5	0.88	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Thallium	ND		9.9	5.0	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Vanadium	ND		0.99	0.50	mg/Kg		07/26/18 07:54	07/27/18 00:40	5
Zinc	ND		5.0	2.5	mg/Kg		07/26/18 07:54	07/27/18 00:40	5

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

Lab Sample ID: LCS 440-489685/2-A ^5
Matrix: Solid
Analysis Batch: 489997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489685

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	47.9		mg/Kg		96	80 - 120
Arsenic	49.8	45.8		mg/Kg		92	80 - 120
Barium	49.8	48.1		mg/Kg		97	80 - 120
Beryllium	49.8	46.3		mg/Kg		93	80 - 120
Cadmium	49.8	46.1		mg/Kg		93	80 - 120
Chromium	49.8	48.0		mg/Kg		97	80 - 120
Cobalt	49.8	47.4		mg/Kg		95	80 - 120
Copper	49.8	48.7		mg/Kg		98	80 - 120
Lead	49.8	47.3		mg/Kg		95	80 - 120
Molybdenum	49.8	47.7		mg/Kg		96	80 - 120
Nickel	49.8	47.3		mg/Kg		95	80 - 120
Selenium	49.8	43.6		mg/Kg		88	80 - 120
Silver	24.9	23.9		mg/Kg		96	80 - 120
Thallium	49.8	47.7		mg/Kg		96	80 - 120
Vanadium	49.8	47.7		mg/Kg		96	80 - 120
Zinc	49.8	44.9		mg/Kg		90	80 - 120

Lab Sample ID: 440-216617-A-1-G MS ^5
Matrix: Solid
Analysis Batch: 489997

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 489685

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	49.8	17.5	F1	mg/Kg		35	75 - 125
Arsenic	6.8		49.8	51.0		mg/Kg		89	75 - 125
Barium	180		49.8	226		mg/Kg		101	75 - 125
Beryllium	0.54		49.8	47.6		mg/Kg		95	75 - 125
Cadmium	1.4		49.8	45.7		mg/Kg		89	75 - 125
Chromium	22		49.8	77.3		mg/Kg		111	75 - 125
Cobalt	8.2		49.8	52.4		mg/Kg		89	75 - 125
Copper	28		49.8	76.4		mg/Kg		98	75 - 125
Lead	32		49.8	80.1		mg/Kg		97	75 - 125
Molybdenum	2.9		49.8	47.2		mg/Kg		89	75 - 125
Nickel	25		49.8	68.8		mg/Kg		88	75 - 125
Selenium	ND		49.8	44.7		mg/Kg		90	75 - 125
Silver	ND		24.9	23.9		mg/Kg		96	75 - 125
Thallium	ND		49.8	48.0		mg/Kg		97	75 - 125
Vanadium	49	F1	49.8	121	F1	mg/Kg		143	75 - 125
Zinc	110		49.8	146		mg/Kg		76	75 - 125

Lab Sample ID: 440-216617-A-1-H MSD ^5
Matrix: Solid
Analysis Batch: 489997

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 489685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	50.0	18.4	F1	mg/Kg		37	75 - 125	5	20
Arsenic	6.8		50.0	52.1		mg/Kg		91	75 - 125	2	20
Barium	180		50.0	235		mg/Kg		118	75 - 125	4	20
Beryllium	0.54		50.0	48.2		mg/Kg		95	75 - 125	1	20

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

Lab Sample ID: 440-216617-A-1-H MSD ^5
Matrix: Solid
Analysis Batch: 489997

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 489685

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium	1.4		50.0	46.0		mg/Kg		89	75 - 125	1	20
Chromium	22		50.0	77.9		mg/Kg		111	75 - 125	1	20
Cobalt	8.2		50.0	52.9		mg/Kg		89	75 - 125	1	20
Copper	28		50.0	77.4		mg/Kg		99	75 - 125	1	20
Lead	32		50.0	74.8		mg/Kg		86	75 - 125	7	20
Molybdenum	2.9		50.0	47.8		mg/Kg		90	75 - 125	1	20
Nickel	25		50.0	68.9		mg/Kg		88	75 - 125	0	20
Selenium	ND		50.0	44.8		mg/Kg		90	75 - 125	0	20
Silver	ND		25.0	24.3		mg/Kg		97	75 - 125	1	20
Thallium	ND		50.0	48.3		mg/Kg		97	75 - 125	1	20
Vanadium	49	F1	50.0	122	F1	mg/Kg		145	75 - 125	1	20
Zinc	110		50.0	145		mg/Kg		75	75 - 125	0	20

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 440-490816/1-A ^20
Matrix: Solid
Analysis Batch: 491621

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		400	180	ug/L			08/03/18 23:41	20

Lab Sample ID: LCS 440-490816/2-A ^20
Matrix: Solid
Analysis Batch: 491621

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	1600	1420		ug/L		89	80 - 120

Lab Sample ID: 320-41100-A-1-D MS ^20
Matrix: Solid
Analysis Batch: 491621

Client Sample ID: Matrix Spike
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	ND		1600	1500		ug/L		94	75 - 125

Lab Sample ID: 320-41100-A-1-D MSD ^20
Matrix: Solid
Analysis Batch: 491621

Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium	ND		1600	1510		ug/L		94	75 - 125	0	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-489625/1-A
Matrix: Solid
Analysis Batch: 489802

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 489625

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		07/25/18 18:50	07/25/18 20:37	1

Lab Sample ID: LCS 440-489625/2-A
Matrix: Solid
Analysis Batch: 489802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 489625

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.860		mg/Kg		108	80 - 120

Lab Sample ID: 440-216551-B-1-B MS
Matrix: Solid
Analysis Batch: 489802

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 489625

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.046		0.784	0.820		mg/Kg		99	70 - 130

Lab Sample ID: 440-216551-B-1-C MSD
Matrix: Solid
Analysis Batch: 489802

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 489625

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.046		0.784	0.839		mg/Kg		101	70 - 130	2	20

GC/MS VOA

Analysis Batch: 489957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	8260B	
MB 440-489957/3	Method Blank	Total/NA	Solid	8260B	
LCS 440-489957/4	Lab Control Sample	Total/NA	Solid	8260B	
440-216584-68 MS	DRUM	Total/NA	Solid	8260B	
440-216584-68 MSD	DRUM	Total/NA	Solid	8260B	

GC VOA

Analysis Batch: 489977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	8015B	
MB 440-489977/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-489977/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-489977/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-216584-68 MS	DRUM	Total/NA	Solid	8015B	
440-216584-68 MSD	DRUM	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 489609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	3546	
MB 440-489609/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-489609/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-216531-A-1-B MS	Matrix Spike	Total/NA	Solid	3546	
440-216531-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 489617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-1	ABC-15-0.5	Total/NA	Solid	3546	
440-216584-2	ABC-15-2.5	Total/NA	Solid	3546	
440-216584-4	ABC-16-0.5	Total/NA	Solid	3546	
440-216584-5	ABC-16-2.5	Total/NA	Solid	3546	
440-216584-7	ABC-17-0.5	Total/NA	Solid	3546	
440-216584-8	ABC-17-2.5	Total/NA	Solid	3546	
440-216584-10	ABC-18-0.5	Total/NA	Solid	3546	
440-216584-11	ABC-18-2.5	Total/NA	Solid	3546	
440-216584-13	ABC-9-0.5	Total/NA	Solid	3546	
440-216584-14	ABC-9-2.5	Total/NA	Solid	3546	
440-216584-16	ABC-19-0.5	Total/NA	Solid	3546	
440-216584-17	ABC-19-2.5	Total/NA	Solid	3546	
440-216584-19	ABC-20-0.5	Total/NA	Solid	3546	
440-216584-20	ABC-20-2.5	Total/NA	Solid	3546	
440-216584-22	ABC-8-0.5	Total/NA	Solid	3546	
440-216584-23	ABC-8-2.5	Total/NA	Solid	3546	
440-216584-25	ABC-7-0.5	Total/NA	Solid	3546	
440-216584-26	ABC-7-2.5	Total/NA	Solid	3546	
440-216584-28	ABC-6-0.5	Total/NA	Solid	3546	
440-216584-29	ABC-6-2.5	Total/NA	Solid	3546	
MB 440-489617/1-A	Method Blank	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 489617 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-489617/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-216584-1 MS	ABC-15-0.5	Total/NA	Solid	3546	
440-216584-1 MSD	ABC-15-0.5	Total/NA	Solid	3546	

Prep Batch: 489620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-31	ABC-5-0.5	Total/NA	Solid	3546	
440-216584-32	ABC-5-2.5	Total/NA	Solid	3546	
440-216584-34	ABC-4-0.5	Total/NA	Solid	3546	
440-216584-35	ABC-4-2.5	Total/NA	Solid	3546	
440-216584-37	ABC-3-0.5	Total/NA	Solid	3546	
440-216584-38	ABC-3-2.5	Total/NA	Solid	3546	
440-216584-40	ABC-2-0.5	Total/NA	Solid	3546	
440-216584-41	ABC-2-2.5	Total/NA	Solid	3546	
440-216584-43	ABC-1-0.5	Total/NA	Solid	3546	
440-216584-44	ABC-1-2.5	Total/NA	Solid	3546	
440-216584-46	ABC-10-0.5	Total/NA	Solid	3546	
440-216584-47	ABC-10-2.5	Total/NA	Solid	3546	
440-216584-49	ABC-11-0.5	Total/NA	Solid	3546	
440-216584-50	ABC-11-2.5	Total/NA	Solid	3546	
440-216584-52	ABC-12-0.5	Total/NA	Solid	3546	
440-216584-53	ABC-12-2.5	Total/NA	Solid	3546	
440-216584-55	ABC-13-0.5	Total/NA	Solid	3546	
440-216584-56	ABC-13-2.5	Total/NA	Solid	3546	
440-216584-58	ABC-14-0.5	Total/NA	Solid	3546	
440-216584-68	DRUM	Total/NA	Solid	3546	
MB 440-489620/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-489620/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-216584-31 MS	ABC-5-0.5	Total/NA	Solid	3546	
440-216584-31 MSD	ABC-5-0.5	Total/NA	Solid	3546	

Prep Batch: 489622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-59	ABC-14-2.5	Total/NA	Solid	3546	
440-216584-61	ABC-17-DUP-0.5	Total/NA	Solid	3546	
440-216584-63	ABC-19-DUP-0.5	Total/NA	Solid	3546	
440-216584-64	ABC-4-DUP-0.5	Total/NA	Solid	3546	
440-216584-65	ABC-2-DUP-2.5	Total/NA	Solid	3546	
440-216584-66	ABC-12-DUP-2.5	Total/NA	Solid	3546	
MB 440-489622/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-489622/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-216584-59 MS	ABC-14-2.5	Total/NA	Solid	3546	
440-216584-59 MSD	ABC-14-2.5	Total/NA	Solid	3546	

Analysis Batch: 489699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-2	ABC-15-2.5	Total/NA	Solid	8082	489617
440-216584-4	ABC-16-0.5	Total/NA	Solid	8082	489617
440-216584-5	ABC-16-2.5	Total/NA	Solid	8082	489617
440-216584-7	ABC-17-0.5	Total/NA	Solid	8082	489617
440-216584-8	ABC-17-2.5	Total/NA	Solid	8082	489617

GC Semi VOA (Continued)

Analysis Batch: 489699 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-10	ABC-18-0.5	Total/NA	Solid	8082	489617
440-216584-11	ABC-18-2.5	Total/NA	Solid	8082	489617
440-216584-13	ABC-9-0.5	Total/NA	Solid	8082	489617
440-216584-14	ABC-9-2.5	Total/NA	Solid	8082	489617
440-216584-16	ABC-19-0.5	Total/NA	Solid	8082	489617
440-216584-17	ABC-19-2.5	Total/NA	Solid	8082	489617
440-216584-19	ABC-20-0.5	Total/NA	Solid	8082	489617
440-216584-20	ABC-20-2.5	Total/NA	Solid	8082	489617
440-216584-22	ABC-8-0.5	Total/NA	Solid	8082	489617
440-216584-23	ABC-8-2.5	Total/NA	Solid	8082	489617
440-216584-25	ABC-7-0.5	Total/NA	Solid	8082	489617
440-216584-26	ABC-7-2.5	Total/NA	Solid	8082	489617
440-216584-28	ABC-6-0.5	Total/NA	Solid	8082	489617
440-216584-29	ABC-6-2.5	Total/NA	Solid	8082	489617
440-216584-32	ABC-5-2.5	Total/NA	Solid	8082	489620
440-216584-34	ABC-4-0.5	Total/NA	Solid	8082	489620
440-216584-35	ABC-4-2.5	Total/NA	Solid	8082	489620
440-216584-37	ABC-3-0.5	Total/NA	Solid	8082	489620
440-216584-38	ABC-3-2.5	Total/NA	Solid	8082	489620
440-216584-40	ABC-2-0.5	Total/NA	Solid	8082	489620
440-216584-41	ABC-2-2.5	Total/NA	Solid	8082	489620
440-216584-43	ABC-1-0.5	Total/NA	Solid	8082	489620
440-216584-44	ABC-1-2.5	Total/NA	Solid	8082	489620
440-216584-46	ABC-10-0.5	Total/NA	Solid	8082	489620
440-216584-47	ABC-10-2.5	Total/NA	Solid	8082	489620
440-216584-49	ABC-11-0.5	Total/NA	Solid	8082	489620
440-216584-50	ABC-11-2.5	Total/NA	Solid	8082	489620
440-216584-52	ABC-12-0.5	Total/NA	Solid	8082	489620
440-216584-53	ABC-12-2.5	Total/NA	Solid	8082	489620
440-216584-55	ABC-13-0.5	Total/NA	Solid	8082	489620
440-216584-56	ABC-13-2.5	Total/NA	Solid	8082	489620
440-216584-58	ABC-14-0.5	Total/NA	Solid	8082	489620
440-216584-68	DRUM	Total/NA	Solid	8082	489620

Analysis Batch: 489702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-1	ABC-15-0.5	Total/NA	Solid	8082	489617
440-216584-31	ABC-5-0.5	Total/NA	Solid	8082	489620
440-216584-59	ABC-14-2.5	Total/NA	Solid	8082	489622
440-216584-61	ABC-17-DUP-0.5	Total/NA	Solid	8082	489622
440-216584-63	ABC-19-DUP-0.5	Total/NA	Solid	8082	489622
440-216584-64	ABC-4-DUP-0.5	Total/NA	Solid	8082	489622
440-216584-65	ABC-2-DUP-2.5	Total/NA	Solid	8082	489622
440-216584-66	ABC-12-DUP-2.5	Total/NA	Solid	8082	489622
440-216584-67	EB-1	Total/NA	Water	8082	489754
MB 440-489617/1-A	Method Blank	Total/NA	Solid	8082	489617
MB 440-489620/1-A	Method Blank	Total/NA	Solid	8082	489620
MB 440-489622/1-A	Method Blank	Total/NA	Solid	8082	489622
MB 440-489754/1-A	Method Blank	Total/NA	Water	8082	489754
LCS 440-489617/2-A	Lab Control Sample	Total/NA	Solid	8082	489617
LCS 440-489620/2-A	Lab Control Sample	Total/NA	Solid	8082	489620

GC Semi VOA (Continued)

Analysis Batch: 489702 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-489622/2-A	Lab Control Sample	Total/NA	Solid	8082	489622
LCS 440-489754/2-A	Lab Control Sample	Total/NA	Water	8082	489754
LCSD 440-489754/3-A	Lab Control Sample Dup	Total/NA	Water	8082	489754
440-216584-1 MS	ABC-15-0.5	Total/NA	Solid	8082	489617
440-216584-1 MSD	ABC-15-0.5	Total/NA	Solid	8082	489617
440-216584-31 MS	ABC-5-0.5	Total/NA	Solid	8082	489620
440-216584-31 MSD	ABC-5-0.5	Total/NA	Solid	8082	489620
440-216584-59 MS	ABC-14-2.5	Total/NA	Solid	8082	489622
440-216584-59 MSD	ABC-14-2.5	Total/NA	Solid	8082	489622

Analysis Batch: 489710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	8015B	489609
MB 440-489609/1-A	Method Blank	Total/NA	Solid	8015B	489609
LCS 440-489609/2-A	Lab Control Sample	Total/NA	Solid	8015B	489609
440-216531-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B	489609
440-216531-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	489609

Prep Batch: 489754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-67	EB-1	Total/NA	Water	3510C	
MB 440-489754/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-489754/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-489754/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 492053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-3	ABC-15-5.0	Total/NA	Solid	3546	
440-216584-6	ABC-16-5.0	Total/NA	Solid	3546	
440-216584-9	ABC-17-5.0	Total/NA	Solid	3546	
440-216584-12	ABC-18-5.0	Total/NA	Solid	3546	
440-216584-15	ABC-9-5.0	Total/NA	Solid	3546	
440-216584-18	ABC-19-5.0	Total/NA	Solid	3546	
440-216584-21	ABC-20-5.0	Total/NA	Solid	3546	
440-216584-24	ABC-8-5.0	Total/NA	Solid	3546	
440-216584-27	ABC-7-5.0	Total/NA	Solid	3546	
440-216584-30	ABC-6-5.0	Total/NA	Solid	3546	
440-216584-33	ABC-5-5.0	Total/NA	Solid	3546	
440-216584-36	ABC-4-5.0	Total/NA	Solid	3546	
440-216584-39	ABC-3-5.0	Total/NA	Solid	3546	
440-216584-42	ABC-2-5.0	Total/NA	Solid	3546	
440-216584-45	ABC-1-5.0	Total/NA	Solid	3546	
440-216584-48	ABC-10-5.0	Total/NA	Solid	3546	
440-216584-51	ABC-11-5.0	Total/NA	Solid	3546	
440-216584-54	ABC-12-5.0	Total/NA	Solid	3546	
440-216584-57	ABC-13-5.0	Total/NA	Solid	3546	
440-216584-60	ABC-14-5.0	Total/NA	Solid	3546	
MB 440-492053/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-492053/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-216584-3 MS	ABC-15-5.0	Total/NA	Solid	3546	
440-216584-3 MSD	ABC-15-5.0	Total/NA	Solid	3546	

Prep Batch: 492064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-62	ABC-17-DUP-5.0	Total/NA	Solid	3546	
MB 440-492064/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-492064/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-216584-62 MS	ABC-17-DUP-5.0	Total/NA	Solid	3546	
440-216584-62 MSD	ABC-17-DUP-5.0	Total/NA	Solid	3546	

Analysis Batch: 492155

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-3	ABC-15-5.0	Total/NA	Solid	8082	492053
440-216584-6	ABC-16-5.0	Total/NA	Solid	8082	492053
440-216584-9	ABC-17-5.0	Total/NA	Solid	8082	492053
440-216584-12	ABC-18-5.0	Total/NA	Solid	8082	492053
440-216584-15	ABC-9-5.0	Total/NA	Solid	8082	492053
440-216584-18	ABC-19-5.0	Total/NA	Solid	8082	492053
440-216584-21	ABC-20-5.0	Total/NA	Solid	8082	492053
440-216584-24	ABC-8-5.0	Total/NA	Solid	8082	492053
440-216584-27	ABC-7-5.0	Total/NA	Solid	8082	492053
440-216584-30	ABC-6-5.0	Total/NA	Solid	8082	492053
440-216584-33	ABC-5-5.0	Total/NA	Solid	8082	492053
440-216584-36	ABC-4-5.0	Total/NA	Solid	8082	492053
440-216584-39	ABC-3-5.0	Total/NA	Solid	8082	492053
440-216584-42	ABC-2-5.0	Total/NA	Solid	8082	492053
440-216584-45	ABC-1-5.0	Total/NA	Solid	8082	492053
440-216584-48	ABC-10-5.0	Total/NA	Solid	8082	492053
440-216584-51	ABC-11-5.0	Total/NA	Solid	8082	492053
440-216584-54	ABC-12-5.0	Total/NA	Solid	8082	492053
440-216584-57	ABC-13-5.0	Total/NA	Solid	8082	492053
440-216584-60	ABC-14-5.0	Total/NA	Solid	8082	492053
440-216584-62	ABC-17-DUP-5.0	Total/NA	Solid	8082	492064
MB 440-492053/1-A	Method Blank	Total/NA	Solid	8082	492053
MB 440-492064/1-A	Method Blank	Total/NA	Solid	8082	492064
LCS 440-492053/2-A	Lab Control Sample	Total/NA	Solid	8082	492053
LCS 440-492064/2-A	Lab Control Sample	Total/NA	Solid	8082	492064
440-216584-3 MS	ABC-15-5.0	Total/NA	Solid	8082	492053
440-216584-3 MSD	ABC-15-5.0	Total/NA	Solid	8082	492053
440-216584-62 MS	ABC-17-DUP-5.0	Total/NA	Solid	8082	492064
440-216584-62 MSD	ABC-17-DUP-5.0	Total/NA	Solid	8082	492064

Metals

Prep Batch: 489625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	7471A	
MB 440-489625/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-489625/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-216551-B-1-B MS	Matrix Spike	Total/NA	Solid	7471A	
440-216551-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 489685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	3050B	
MB 440-489685/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-489685/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 489685 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216617-A-1-G MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-216617-A-1-H MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 489802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	7471A	489625
MB 440-489625/1-A	Method Blank	Total/NA	Solid	7471A	489625
LCS 440-489625/2-A	Lab Control Sample	Total/NA	Solid	7471A	489625
440-216551-B-1-B MS	Matrix Spike	Total/NA	Solid	7471A	489625
440-216551-B-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	489625

Analysis Batch: 489997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	Total/NA	Solid	6010B	489685
MB 440-489685/1-A ^5	Method Blank	Total/NA	Solid	6010B	489685
LCS 440-489685/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	489685
440-216617-A-1-G MS ^5	Matrix Spike	Total/NA	Solid	6010B	489685
440-216617-A-1-H MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	489685

Leach Batch: 490816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	STLC Citrate	Solid	CA WET Citrate	
MB 440-490816/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-490816/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
320-41100-A-1-D MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
320-41100-A-1-D MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 491621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-490816/1-A ^20	Method Blank	STLC Citrate	Solid	6020	490816
LCS 440-490816/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6020	490816
320-41100-A-1-D MS ^20	Matrix Spike	STLC Citrate	Solid	6020	490816
320-41100-A-1-D MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6020	490816

Analysis Batch: 491794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-216584-68	DRUM	STLC Citrate	Solid	6020	490816

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

Metals

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

Accreditation/Certification Summary

Client: Leighton Consulting Inc
Project/Site: Malibu HS A B/C

TestAmerica Job ID: 440-216584-1
SDG: Malibu High School

Laboratory: TestAmerica Irvine

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	CA ELAP 2706	06-30-19

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B	3546	Solid	C13-C22
8015B	3546	Solid	C23-C40
8260B		Solid	m,p-Xylene

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 209667

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: Bea Sierra Michael	Date: 7/25/18	COC No.
Company Name: Leighton Consulting	Tel/Fax:	Lab Contact: Danielle Roberts	Carrier:	1 of 1 COCs
Address: 17781 Cowan	Analysis Turnaround Time			Sampler:
City/State/Zip: Irvine, CA 92614	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 949-250-1421	TAT if different from Below			Walk-in Client:
Fax	☐ 2 weeks			Lab Sampling:
Project Name: Malibu HS A B/C	☐ 1 week			Job / SDG No :
Site: Malibu HS	☒ 2 days			
PO # 11382.005	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	HOLD	Sample Specific Notes:
ABC-15-0.5	7/25/18	0750	G	S	1			X		
ABC-15-2.5		0752						X		
ABC-15-5.0		0754							X	
ABC-16-0.5		0755						X		
ABC-16-2.5		0756						X		
ABC-16-5.0		0757							X	
ABC-17-0.5		0758						X		
ABC-17-2.5		0800						X		
ABC-17-5.0		0801							X	
ABC-18-0.5		0802						X		
ABC-18-2.5		0804						X		
ABC-18-5.0		0805							X	

440-216584 Chain of Custody

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Prioritize all 0.5' samples first, then 2.5'. 3.7 4.0 6.6

Custody Seals Intact	☐ Yes ☐ No	Custody Seal No :		Cooler Temp (°C). Obs'd: _____ Corr'd _____		Therm ID No _____
Relinquished by:	Company: LCI	Date/Time: 1300 7/25/18	Received by	Company	Date/Time	
Relinquished by	Company:	Date/Time	Received by:	Company	Date/Time:	
Relinquished by	Company.	Date/Time	Received in Laboratory by	Company. TA IRV	Date/Time 7/25/18 1300	

Page 90 of 96

8/9/2018

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 209666

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: Sierra Michaelsen	Date: 7/25/18	COC No:
Company Name: Wynn Consulting	Tel/Fax:	Lab Contact: Danielle Roberts	Carrier:	2 of 6 COCs
Address: 17781 Cowan	Analysis Turnaround Time			Sampler:
City/State/Zip: Irvine, CA. 92614	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 949-250-1424	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name Malibu HS A B/C	☐ 1 week			Job / SDG No.
Site Malibu HS	☒ 2 days			
PO # 115587.005	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	HOLD	Sample Specific Notes:
ABC-9-0.5	7/25/18	0806	G	S	1			X		
ABC-9-2.5		0807						X		
ABC-9-5.0		0808							X	
ABC-19-0.5		0809						X		
ABC-19-2.5		0811						X		
ABC-19-3.0		0812							X	
ABC-20-0.5		0813						X		
ABC-20-2.5		0814						X		
ABC-20-5.0		0815							X	
ABC-8-0.5		0816						X		
ABC-8-2.5		0817						X		
ABC-8-5.0	↓	0818	↓	↓	↓				X	

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Prioritize 0.5 samples first! 3.7 4.0 6.6

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp (°C). Obs'd _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by	Company	Date/Time	Received by:	Company	Date/Time
[signature]	CCI	7/25/18 1300			
Relinquished by	Company.	Date/Time	Received by	Company	Date/Time:
Relinquished by	Company:	Date/Time	Received in Laboratory by: [signature]	Company TA IRV	Date/Time: 7/25/18 1300

Page 10 of 86

8/9/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 209665

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: SAM	Date: 7/25/18	COC No:
Company Name: Leighton Consulting	Tel/Fax:	Lab Contact: DR	Carrier:	3 of 6 COCs
Address: 17781 Cowan	Analysis Turnaround Time			Sampler:
City/State/Zip: Irvine, CA 92614	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 949-250-1421	TAT if different from Below _____			Walk-in Client
Fax:	☐ 2 weeks			Lab Sampling
Project Name: Malibu HS A &C	☐ 1 week			
Site: Malibu HS	☒ 2 days			Job / SDG No :
PO # 11382-005	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	HOLD	Sample Specific Notes
ABC-7-0.5	7/25/18	0819	G	S	1			X		
ABC-7-2.5		0820						X		
ABC-7-5.0		0821							X	
ABC-6-0.5		0830						X		
ABC-6-2.5		0831						X		
ABC-6-5.0		0837							X	
ABC-5-0.5		0833						X		
ABC-5-2.5		0834						X		
ABC-5-5.0		0835							X	
ABC-4-0.5		0840						X		
ABC-4-2.5		0841						X		
ABC-4-5.0		0843							X	

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Prioritize 0.5 samples 3.7 4.0 6.4

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
[signature]	LI	7/25/18 1300			
Relinquished by:	Company:	Date/Time:	Received by: [signature]	Company:	Date/Time:
Relinquished by	Company	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 7/25/18 1300

8/9/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

209661

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: SAM	Date: 7/25/18	COC No
Company Name: Blight Consulting	Tel/Fax:	Lab Contact: DR	Carrier:	4 of 6 COCs
Address 17801 Cowan	Analysis Turnaround Time			Sampler:
City/State/Zip: Irvine, CA 92614	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone 949-250-1421	TAT if different from Below _____			Walk-in Client
Fax:	☐ 2 weeks			Lab Sampling:
Project Name. Malibu HS A B/C	☐ 1 week			Job / SDG No :
Site. Malibu HS	☒ 2 days			
P O # 11382.005	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	HOLD	Sample Specific Notes:
ABC-3-0.5	7/25/18		G	S	1			X		
ABC-3-2.5								X		
ABC-3-5.0									X	
ABC-2-0.5								X		
ABC-2-2.5								X		
ABC-2-5.0									X	
ABC-1-0.5								X		
ABC-1-2.5								X		
ABC-1-5.0									X	
ABC-10-0.5								X		
ABC-10-2.5								X		
ABC-10-5.0									X	

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Prioritize 0.5 samples 3.7 4.0 66

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No :	Cooler Temp. (°C): Obs'd _____ Corr'd _____ Therm ID No.:_____		
Relinquished by	Company: LCI	Date/Time: 7/25/18 1300	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received by	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company TA IRV	Date/Time: 7/25/18 1300

8/9/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 209662

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: SAM	Date: 7/25/18	COC No:
Company Name: Leighton Consulting	Tel/Fax:	Lab Contact: PM	Carrier:	5 of 6 COCs
Address: 17781 Cowan	Analysis Turnaround Time			Sampler:
City/State/Zip: Irvine, CA 92614	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 949-250-1421	TAT if different from Below _____			Walk-in Client
Fax:	☐ 2 weeks			Lab Sampling
Project Name: Malibu HS A B/L	☐ 1 week			
Site: Malibu HS	☒ 2 days			Job / SDG No :
P O # 11382.005	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	Hold	Sample Specific Notes:
ABC-11-0.5	7/25/18		G	S	1			X		
ABC-11-2.5								X		
ABC-11-5.0									X	
ABC-12-0.5								X		
ABC-12-2.5								X		
ABC-12-5.0									X	
ABC-13-0.5								X		
ABC-13-2.5								X		
ABC-13-5.0									X	
ABC-14-0.5								X		
ABC-14-2.5								X		
ABC-14-5.0									X	

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Prioritize 0.5 samples 3.7 4.0 cce

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C) Obs'd _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company: LCI	Date/Time: 7/25/18 1300	Received by:	Company	Date/Time
Relinquished by	Company	Date/Time	Received by:	Company.	Date/Time
Relinquished by	Company.	Date/Time	Received in Laboratory by:	Company: TALIRV	Date/Time: 7/25/18 1300

Page 84 of 86

8/9/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

209663

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact: SAM	Date: 7/25/18	COC No:
Company Name: Leighton Consulting	Tel/Fax:	Lab Contact: DK	Carrier:	6 of 6 COCs
Address: 17781 Cowan	Analysis Turnaround Time			Sampler:
City/State/Zip: Irvine, CA 92614	☒ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 949-250-1431	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling
Project Name: Malibu HS A D/L	☒ 1 week			
Site: Malibu HS	☐ 2 days			Job / SDG No :
PO # 11382-005	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	PCBs	HOLD	VOCs	6010 Metals	TPH G/D/O	Sample Specific Notes:
ABC-17-DUP-0.5	7/25/18	0759	G	S	1			X					
ABC-17-DUP-5.0		0802							X				
ABC-19-DUP-0.5		0810						X					
ABC-4-DUP-0.5		0841						X					
ABC-2-DUP-2.5		0900						X					
ABC-12-DUP-2.5		0913						X					
EB-1		0945		W	2			X					
Drum		0955		S	1			X		X	X	X	

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

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
STANDARD TAT FOR THIS PAGE ONLY 3.7 4.0 6C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd _____ Therm ID No. _____

Relinquished by:	Company	Date/Time	Received by	Company:	Date/Time:
	LCI	7/25/18 1300			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company HA/IRV	Date/Time 7/25/18 1300

8/9/2018

Login Sample Receipt Checklist

Client: Leighton Consulting Inc

Job Number: 440-216584-2
SDG Number: Malibu High School

Login Number: 216584
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
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.	False	No sample date and/or time on COC, logged in per container labels.
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
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.	False	No date or time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX B

Dust Monitoring Logs

VISTA ENVIRONMENTAL CONSULTING

OAKLAND ● SAN JOSE ● MONTEREY ● ANAHEIM ● SAN DIEGO

August 24, 2018

Sreekar Pulijala, PE
Senior Project Engineer
Leighton Conslting, Inc.
17781 Cowan
Irvine, CA 92614

Project: **SCAQMD Rule 403 and 1466 Dust Monitoring**
Malibu High School, 30215 Morning View Drive, Malibu, CA

Dear Mr. Pulijala:

Vista Environmental Consulting, Inc. (Vista) performed dust monitoring and weather measurements, to assist with compliance of applicable SCAQMD regulations, during the removal of 30 inches of soil from the Building ABC Project Site on the campus of Malibu High School, located at 30215 Morning View Drive in Malibu, California. It is understood that the excavation of 30" of soil was performed due to the presence of very low levels of Aroclor 1254, which triggered the need for compliance with SCAQMD Rule 1466.

Vista performed monitoring on 16 August and 17 August 2018, with basic shift hours of 0700 to 1530. Eloy Acuna was the Vista representative on-site that performed the dust monitoring. Mr. Acuna has successfully completed the SCAQMD Rule 403 Fugitive Dust Training Course.

Methodology

Vista utilized a Vantage Pro 2 Plus weather station to ensure that wind direction and wind speed was a known factor at all times, as well as to determine prevailing wind patterns, to ensure proper placement of upwind and downwind dust monitors.

Vista utilized two identical dust monitors, calibrated to the same standard, for monitoring upwind and downwind airborne dust levels. For this project, TSI DustTRAK DRX Aerosol Monitor 8533 were utilized for the dust monitoring. They were utilized to record total dust, respirable dust, PM_{10}, $PM_{2.5}$ and PM_1. PM_{10} was the analyte of concern, for both SCAQMD Rule 403 and SCAQMD Rule 1466.

Results

In total, there were 11 incidents where the difference between the upwind PM_{10} dust level exceeded the Rule 1466 maximum limit of 0.025 mg/m^3 (25 micrograms per cubic meter). In each incident, the excessive dust level was associated with a gust of wind, and lasted for one minute or less.

The peak difference between the upwind and downwind PM10 dust levels was at 1104 Hours on 16 August, when the upwind result (ambient air) was 0.062 mg/m^3 and the downwind result was 0.539 mg/m^3. As with every other instance of elevated net dust results, this incident lasted for one minute or less. It bears noting that this particular wind gust clearly upset ambient surroundings, as evidenced by the fact that, at 1103 Hours, the upwind result (ambient air) was 0.159 mg/m^3 and the downwind result was 0.03 mg/m^3, meaning upwind results were five times higher than downwind.

Data logging occurred every minute. Even surrounding the peak airborne dust levels, which were observed at 1104 on 16 August, acceptable PM_{10} dust levels were observed at both 1103 Hours and 1105 Hours.

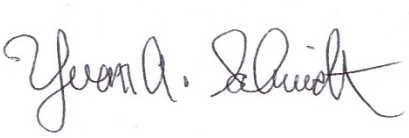
Conclusions/Recommendations

In summary, SCAQMD Rule 1466 requires mitigation activities when the difference between the upwind PM_{10} dust level and the downwind PM_{10} dust level exceeds 0.025 mg/m^3 (25 micrograms per cubic meter) for two consecutive hours. There were no such instances during the duration of the two days of monitoring performed on 16 August and 17 August 2018.

Raw data from both dust monitors is attached to the rear of this report.

If you should have any questions regarding this matter, or if I can be of further assistance, please feel free to contact me on my mobile at 714.746.7644.

Respectfully submitted,
Vista Environmental Consulting, Inc.



Yvan A. Schmidt
Senior Project Manager

ATTACHMENT A -
RAW DATA FROM DUST MONITORS

R12231 - 8/16/18 UPWIND

ERROR: FLOW,

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	8/16/2018
Instrument S/N	8533104002	Start Time	8:02:28
		Stop Date	8/17/2018
		Stop Time	7:18:28
		Total Time	0:23:16:00
		Logging Interval	60 seconds

Statistics

	PM1	PM2.5	RESP	PM10	TOTAL
Avg	0.031 mg/m^3	0.031 mg/m^3	0.032 mg/m^3	0.035 mg/m^3	0.037 mg/m^3
Max	0.155 mg/m^3	0.156 mg/m^3	0.158 mg/m^3	0.177 mg/m^3	0.241 mg/m^3
Max Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
Max Time	11:01:28	11:01:28	11:01:28	11:01:28	11:01:28
Min	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3
Min Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
Min Time	13:50:28	13:50:28	13:50:28	13:50:28	13:50:28
TWA (8 hr)	0.022	0.023	0.023	0.025	0.027
TWA Start Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
TWA Start Time	08:02:28	08:02:28	08:02:28	08:02:28	08:02:28
TWA End Time	07:18:28	07:18:28	07:18:28	07:18:28	07:18:28

Test Data

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
1	8/16/2018	8:03:28	0.042	0.043	0.043	0.044	0.046

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
2	8/16/2018	8:04:28	0.042	0.042	0.043	0.044	0.044
3	8/16/2018	8:05:28	0.042	0.043	0.043	0.044	0.044
4	8/16/2018	8:06:28	0.042	0.043	0.043	0.043	0.043
5	8/16/2018	8:07:28	0.042	0.043	0.043	0.044	0.045
6	8/16/2018	8:08:28	0.041	0.042	0.042	0.042	0.042
7	8/16/2018	8:09:28	0.04	0.041	0.041	0.041	0.042
8	8/16/2018	8:10:28	0.04	0.04	0.04	0.041	0.041
9	8/16/2018	8:11:28	0.04	0.041	0.041	0.041	0.042
10	8/16/2018	8:12:28	0.039	0.04	0.04	0.04	0.04
11	8/16/2018	8:13:28	0.038	0.039	0.039	0.039	0.039
12	8/16/2018	8:14:28	0.039	0.039	0.039	0.04	0.04
13	8/16/2018	8:15:28	0.039	0.039	0.04	0.04	0.04
14	8/16/2018	8:16:28	0.038	0.039	0.039	0.039	0.039
15	8/16/2018	8:17:28	0.038	0.039	0.039	0.039	0.039
16	8/16/2018	8:18:28	0.038	0.038	0.039	0.039	0.039
17	8/16/2018	8:19:28	0.037	0.038	0.038	0.038	0.039
18	8/16/2018	8:20:28	0.037	0.038	0.038	0.039	0.039
19	8/16/2018	8:21:28	0.037	0.038	0.038	0.038	0.038
20	8/16/2018	8:22:28	0.036	0.037	0.037	0.037	0.037
21	8/16/2018	8:23:28	0.036	0.037	0.037	0.037	0.037
22	8/16/2018	8:24:28	0.035	0.036	0.036	0.036	0.036

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
23	8/16/2018	8:25:28	0.035	0.036	0.036	0.036	0.037
24	8/16/2018	8:26:28	0.035	0.036	0.036	0.036	0.036
25	8/16/2018	8:27:28	0.035	0.036	0.036	0.036	0.036
26	8/16/2018	8:28:28	0.036	0.036	0.037	0.037	0.038
27	8/16/2018	8:29:28	0.056	0.057	0.057	0.059	0.06
28	8/16/2018	8:30:28	0.04	0.041	0.042	0.045	0.048
29	8/16/2018	8:31:28	0.038	0.039	0.039	0.043	0.046
30	8/16/2018	8:32:28	0.042	0.043	0.044	0.048	0.049
31	8/16/2018	8:33:28	0.046	0.047	0.047	0.05	0.051
32	8/16/2018	8:34:28	0.035	0.035	0.036	0.037	0.039
33	8/16/2018	8:35:28	0.034	0.034	0.035	0.036	0.036
34	8/16/2018	8:36:28	0.033	0.034	0.034	0.034	0.034
35	8/16/2018	8:37:28	0.033	0.034	0.034	0.034	0.035
36	8/16/2018	8:38:28	0.033	0.033	0.033	0.033	0.033
37	8/16/2018	8:39:28	0.032	0.032	0.033	0.033	0.034
38	8/16/2018	8:40:28	0.032	0.032	0.032	0.033	0.033
39	8/16/2018	8:41:28	0.031	0.032	0.032	0.032	0.034
40	8/16/2018	8:42:28	0.033	0.034	0.034	0.036	0.039
41	8/16/2018	8:43:28	0.035	0.036	0.036	0.038	0.039
42	8/16/2018	8:44:28	0.041	0.042	0.043	0.051	0.058
43	8/16/2018	8:45:28	0.036	0.036	0.037	0.04	0.043
44	8/16/2018	8:46:28	0.033	0.033	0.034	0.035	0.036

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
45	8/16/2018	8:47:28	0.033	0.034	0.034	0.037	0.038
46	8/16/2018	8:48:28	0.033	0.033	0.034	0.035	0.036
47	8/16/2018	8:49:28	0.032	0.033	0.033	0.034	0.034
48	8/16/2018	8:50:28	0.033	0.033	0.033	0.034	0.034
49	8/16/2018	8:51:28	0.032	0.033	0.033	0.034	0.034
50	8/16/2018	8:52:28	0.036	0.037	0.037	0.04	0.043
51	8/16/2018	8:53:28	0.033	0.034	0.034	0.034	0.036
52	8/16/2018	8:54:28	0.033	0.033	0.033	0.034	0.034
53	8/16/2018	8:55:28	0.032	0.032	0.032	0.032	0.032
54	8/16/2018	8:56:28	0.031	0.032	0.032	0.032	0.032
55	8/16/2018	8:57:28	0.031	0.032	0.032	0.032	0.032
56	8/16/2018	8:58:28	0.031	0.032	0.032	0.032	0.032
57	8/16/2018	8:59:28	0.031	0.032	0.032	0.032	0.033
58	8/16/2018	9:00:28	0.031	0.032	0.032	0.033	0.033
59	8/16/2018	9:01:28	0.036	0.037	0.038	0.042	0.044
60	8/16/2018	9:02:28	0.048	0.05	0.053	0.069	0.08
61	8/16/2018	9:03:28	0.032	0.033	0.033	0.034	0.036
62	8/16/2018	9:04:28	0.031	0.031	0.032	0.032	0.032
63	8/16/2018	9:05:28	0.033	0.034	0.035	0.037	0.041
64	8/16/2018	9:06:28	0.033	0.033	0.034	0.035	0.038
65	8/16/2018	9:07:28	0.031	0.032	0.032	0.033	0.033

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
66	8/16/2018	9:08:28	0.035	0.035	0.036	0.037	0.037
67	8/16/2018	9:09:28	0.035	0.035	0.036	0.037	0.037
68	8/16/2018	9:10:28	0.03	0.03	0.03	0.031	0.031
69	8/16/2018	9:11:28	0.029	0.03	0.03	0.031	0.032
70	8/16/2018	9:12:28	0.03	0.031	0.031	0.031	0.031
71	8/16/2018	9:13:28	0.034	0.035	0.036	0.04	0.046
72	8/16/2018	9:14:28	0.03	0.031	0.031	0.031	0.033
73	8/16/2018	9:15:28	0.028	0.029	0.029	0.029	0.029
74	8/16/2018	9:16:28	0.029	0.029	0.029	0.03	0.03
75	8/16/2018	9:17:28	0.029	0.03	0.03	0.032	0.033
76	8/16/2018	9:18:28	0.037	0.038	0.04	0.048	0.051
77	8/16/2018	9:19:28	0.032	0.033	0.034	0.039	0.043
78	8/16/2018	9:20:28	0.031	0.032	0.033	0.037	0.039
79	8/16/2018	9:21:28	0.027	0.027	0.028	0.029	0.03
80	8/16/2018	9:22:28	0.028	0.029	0.029	0.03	0.031
81	8/16/2018	9:23:28	0.028	0.029	0.029	0.031	0.032
82	8/16/2018	9:24:28	0.026	0.027	0.027	0.028	0.029
83	8/16/2018	9:25:28	0.025	0.026	0.026	0.026	0.027
84	8/16/2018	9:26:28	0.026	0.026	0.026	0.027	0.027
85	8/16/2018	9:27:28	0.027	0.027	0.027	0.028	0.029
86	8/16/2018	9:28:28	0.027	0.027	0.027	0.028	0.028
87	8/16/2018	9:29:28	0.027	0.028	0.028	0.03	0.031

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
88	8/16/2018	9:30:28	0.042	0.044	0.047	0.063	0.071
89	8/16/2018	9:31:28	0.028	0.029	0.03	0.032	0.033
90	8/16/2018	9:32:28	0.027	0.027	0.027	0.028	0.028
91	8/16/2018	9:33:28	0.03	0.03	0.031	0.035	0.038
92	8/16/2018	9:34:28	0.027	0.028	0.028	0.03	0.031
93	8/16/2018	9:35:28	0.035	0.035	0.036	0.037	0.037
94	8/16/2018	9:36:28	0.029	0.03	0.03	0.031	0.032
95	8/16/2018	9:37:28	0.036	0.037	0.039	0.047	0.051
96	8/16/2018	9:38:28	0.03	0.031	0.031	0.034	0.036
97	8/16/2018	9:39:28	0.03	0.03	0.031	0.032	0.032
98	8/16/2018	9:40:28	0.031	0.032	0.032	0.033	0.034
99	8/16/2018	9:41:28	0.029	0.03	0.03	0.031	0.031
100	8/16/2018	9:42:28	0.028	0.029	0.029	0.03	0.03
101	8/16/2018	9:43:28	0.035	0.036	0.037	0.042	0.044
102	8/16/2018	9:44:28	0.032	0.033	0.034	0.035	0.036
103	8/16/2018	9:45:28	0.032	0.033	0.034	0.038	0.039
104	8/16/2018	9:46:28	0.029	0.03	0.03	0.031	0.031
105	8/16/2018	9:47:28	0.033	0.033	0.034	0.035	0.035
106	8/16/2018	9:48:28	0.032	0.033	0.034	0.037	0.037
107	8/16/2018	9:49:28	0.032	0.033	0.033	0.034	0.034
108	8/16/2018	9:50:28	0.033	0.034	0.035	0.036	0.037

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
109	8/16/2018	9:51:28	0.05	0.051	0.052	0.06	0.081
110	8/16/2018	9:52:28	0.03	0.03	0.031	0.032	0.033
111	8/16/2018	9:53:28	0.03	0.031	0.031	0.032	0.032
112	8/16/2018	9:54:28	0.031	0.032	0.032	0.034	0.035
113	8/16/2018	9:55:28	0.03	0.031	0.031	0.032	0.034
114	8/16/2018	9:56:28	0.032	0.032	0.033	0.036	0.037
115	8/16/2018	9:57:28	0.028	0.029	0.029	0.03	0.03
116	8/16/2018	9:58:28	0.028	0.029	0.029	0.03	0.03
117	8/16/2018	9:59:28	0.031	0.032	0.033	0.037	0.038
118	8/16/2018	10:00:28	0.029	0.03	0.03	0.031	0.031
119	8/16/2018	10:01:28	0.03	0.03	0.031	0.031	0.033
120	8/16/2018	10:02:28	0.04	0.041	0.043	0.053	0.056
121	8/16/2018	10:03:28	0.034	0.035	0.037	0.044	0.047
122	8/16/2018	10:04:28	0.032	0.033	0.034	0.039	0.041
123	8/16/2018	10:05:28	0.033	0.034	0.035	0.04	0.044
124	8/16/2018	10:06:28	0.028	0.029	0.029	0.03	0.031
125	8/16/2018	10:07:28	0.039	0.04	0.042	0.052	0.058
126	8/16/2018	10:08:28	0.048	0.051	0.055	0.077	0.088
127	8/16/2018	10:09:28	0.053	0.053	0.054	0.057	0.064
128	8/16/2018	10:10:28	0.03	0.031	0.032	0.034	0.036
129	8/16/2018	10:11:28	0.029	0.03	0.03	0.03	0.03
130	8/16/2018	10:12:28	0.03	0.031	0.031	0.032	0.034

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
131	8/16/2018	10:13:28	0.029	0.03	0.03	0.031	0.031
132	8/16/2018	10:14:28	0.027	0.028	0.028	0.029	0.03
133	8/16/2018	10:15:28	0.028	0.029	0.029	0.03	0.03
134	8/16/2018	10:16:28	0.05	0.053	0.056	0.07	0.074
135	8/16/2018	10:17:28	0.043	0.044	0.046	0.051	0.053
136	8/16/2018	10:18:28	0.05	0.052	0.055	0.072	0.087
137	8/16/2018	10:19:28	0.043	0.044	0.045	0.051	0.054
138	8/16/2018	10:20:28	0.035	0.036	0.037	0.04	0.042
139	8/16/2018	10:21:28	0.04	0.041	0.042	0.045	0.047
140	8/16/2018	10:22:28	0.03	0.031	0.031	0.033	0.033
141	8/16/2018	10:23:28	0.039	0.04	0.041	0.047	0.06
142	8/16/2018	10:24:28	0.038	0.039	0.04	0.043	0.044
143	8/16/2018	10:25:28	0.045	0.047	0.048	0.054	0.06
144	8/16/2018	10:26:28	0.047	0.049	0.053	0.069	0.082
145	8/16/2018	10:27:28	0.04	0.041	0.043	0.056	0.066
146	8/16/2018	10:28:28	0.035	0.037	0.038	0.046	0.05
147	8/16/2018	10:29:28	0.031	0.032	0.033	0.036	0.037
148	8/16/2018	10:30:28	0.034	0.035	0.036	0.041	0.044
149	8/16/2018	10:31:28	0.031	0.031	0.032	0.033	0.034
150	8/16/2018	10:32:28	0.031	0.031	0.032	0.033	0.034
151	8/16/2018	10:33:28	0.046	0.048	0.051	0.067	0.082

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
152	8/16/2018	10:34:28	0.056	0.059	0.065	0.093	0.108
153	8/16/2018	10:35:28	0.035	0.036	0.038	0.044	0.047
154	8/16/2018	10:36:28	0.038	0.039	0.041	0.049	0.054
155	8/16/2018	10:37:28	0.057	0.059	0.06	0.068	0.073
156	8/16/2018	10:38:28	0.052	0.054	0.057	0.075	0.084
157	8/16/2018	10:39:28	0.04	0.041	0.042	0.046	0.049
158	8/16/2018	10:40:28	0.034	0.035	0.035	0.038	0.039
159	8/16/2018	10:41:28	0.038	0.039	0.04	0.046	0.049
160	8/16/2018	10:42:28	0.036	0.036	0.037	0.041	0.042
161	8/16/2018	10:43:28	0.043	0.045	0.046	0.055	0.058
162	8/16/2018	10:44:28	0.032	0.032	0.033	0.033	0.033
163	8/16/2018	10:45:28	0.037	0.038	0.038	0.041	0.043
164	8/16/2018	10:46:28	0.035	0.036	0.037	0.04	0.041
165	8/16/2018	10:47:28	0.031	0.032	0.032	0.033	0.033
166	8/16/2018	10:48:28	0.038	0.039	0.039	0.04	0.041
167	8/16/2018	10:49:28	0.047	0.048	0.05	0.057	0.066
168	8/16/2018	10:50:28	0.039	0.04	0.04	0.046	0.058
169	8/16/2018	10:51:28	0.033	0.034	0.034	0.037	0.041
170	8/16/2018	10:52:28	0.069	0.07	0.071	0.078	0.091
171	8/16/2018	10:53:28	0.045	0.046	0.048	0.057	0.063
172	8/16/2018	10:54:28	0.041	0.042	0.043	0.046	0.049
173	8/16/2018	10:55:28	0.037	0.038	0.039	0.04	0.04

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
174	8/16/2018	10:56:28	0.033	0.033	0.034	0.036	0.037
175	8/16/2018	10:57:28	0.037	0.038	0.04	0.047	0.049
176	8/16/2018	10:58:28	0.033	0.034	0.035	0.038	0.04
177	8/16/2018	10:59:28	0.031	0.032	0.032	0.034	0.034
178	8/16/2018	11:00:28	0.031	0.032	0.032	0.033	0.033
179	8/16/2018	11:01:28	0.155	0.156	0.158	0.177	0.241
180	8/16/2018	11:02:28	0.033	0.033	0.033	0.035	0.035
181	8/16/2018	11:03:28	0.085	0.091	0.102	0.159	0.184
182	8/16/2018	11:04:28	0.042	0.044	0.047	0.062	0.069
183	8/16/2018	11:05:28	0.037	0.038	0.04	0.047	0.062
184	8/16/2018	11:06:28	0.072	0.077	0.087	0.133	0.146
185	8/16/2018	11:07:28	0.031	0.032	0.033	0.037	0.04
186	8/16/2018	11:08:28	0.03	0.03	0.031	0.032	0.033
187	8/16/2018	11:09:28	0.025	0.026	0.026	0.027	0.027
188	8/16/2018	11:10:28	0.025	0.025	0.026	0.027	0.027
189	8/16/2018	11:11:28	0.029	0.03	0.031	0.034	0.036
190	8/16/2018	11:12:28	0.024	0.025	0.025	0.025	0.025
191	8/16/2018	11:13:28	0.024	0.024	0.024	0.025	0.025
192	8/16/2018	11:14:28	0.03	0.031	0.031	0.031	0.031
193	8/16/2018	11:15:28	0.03	0.031	0.031	0.031	0.031
194	8/16/2018	11:16:28	0.032	0.032	0.033	0.033	0.034

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
195	8/16/2018	11:17:28	0.024	0.024	0.024	0.025	0.025
196	8/16/2018	11:18:28	0.022	0.023	0.023	0.023	0.024
197	8/16/2018	11:19:28	0.024	0.025	0.025	0.026	0.026
198	8/16/2018	11:20:28	0.033	0.034	0.035	0.045	0.072
199	8/16/2018	11:21:28	0.031	0.032	0.033	0.038	0.039
200	8/16/2018	11:22:28	0.023	0.023	0.023	0.024	0.024
201	8/16/2018	11:23:28	0.027	0.027	0.028	0.029	0.03
202	8/16/2018	11:24:28	0.028	0.029	0.029	0.029	0.03
203	8/16/2018	11:25:28	0.032	0.032	0.032	0.033	0.033
204	8/16/2018	11:26:28	0.025	0.026	0.026	0.027	0.028
205	8/16/2018	11:27:28	0.031	0.032	0.032	0.034	0.034
206	8/16/2018	11:28:28	0.023	0.024	0.024	0.024	0.026
207	8/16/2018	11:29:28	0.036	0.036	0.037	0.037	0.037
208	8/16/2018	11:30:28	0.026	0.026	0.027	0.028	0.028
209	8/16/2018	11:31:28	0.021	0.022	0.022	0.022	0.023
210	8/16/2018	11:32:28	0.035	0.036	0.039	0.053	0.079
211	8/16/2018	11:33:28	0.045	0.046	0.048	0.063	0.084
212	8/16/2018	11:34:28	0.023	0.024	0.024	0.026	0.026
213	8/16/2018	11:35:28	0.025	0.026	0.027	0.033	0.036
214	8/16/2018	11:36:28	0.026	0.027	0.027	0.031	0.035
215	8/16/2018	11:37:28	0.03	0.031	0.032	0.036	0.038
216	8/16/2018	11:38:28	0.018	0.019	0.019	0.019	0.02

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
217	8/16/2018	11:39:28	0.022	0.022	0.022	0.023	0.023
218	8/16/2018	11:40:28	0.025	0.025	0.026	0.026	0.026
219	8/16/2018	11:41:28	0.022	0.022	0.022	0.023	0.023
220	8/16/2018	11:42:28	0.034	0.034	0.035	0.038	0.04
221	8/16/2018	11:43:28	0.031	0.031	0.032	0.032	0.033
222	8/16/2018	11:44:28	0.024	0.025	0.025	0.026	0.027
223	8/16/2018	11:45:28	0.046	0.046	0.047	0.053	0.064
224	8/16/2018	11:46:28	0.133	0.133	0.135	0.144	0.18
225	8/16/2018	11:47:28	0.034	0.035	0.035	0.036	0.036
226	8/16/2018	11:48:28	0.027	0.028	0.029	0.031	0.032
227	8/16/2018	11:49:28	0.019	0.02	0.02	0.022	0.023
228	8/16/2018	11:50:28	0.022	0.023	0.023	0.023	0.023
229	8/16/2018	11:51:28	0.036	0.036	0.037	0.039	0.039
230	8/16/2018	11:52:28	0.026	0.027	0.027	0.029	0.031
231	8/16/2018	11:53:28	0.028	0.029	0.031	0.037	0.041
232	8/16/2018	11:54:28	0.025	0.026	0.027	0.03	0.032
233	8/16/2018	11:55:28	0.024	0.025	0.025	0.027	0.028
234	8/16/2018	11:56:28	0.026	0.026	0.027	0.029	0.03
235	8/16/2018	11:57:28	0.019	0.019	0.019	0.02	0.022
236	8/16/2018	11:58:28	0.028	0.029	0.031	0.043	0.054
237	8/16/2018	11:59:28	0.025	0.025	0.025	0.026	0.026

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
238	8/16/2018	12:00:28	0.021	0.021	0.021	0.022	0.022
239	8/16/2018	12:01:28	0.019	0.02	0.02	0.022	0.022
240	8/16/2018	12:02:28	0.03	0.031	0.031	0.033	0.033
241	8/16/2018	12:03:28	0.022	0.023	0.024	0.032	0.038
242	8/16/2018	12:04:28	0.025	0.026	0.026	0.028	0.028
243	8/16/2018	12:05:28	0.021	0.021	0.021	0.022	0.022
244	8/16/2018	12:06:28	0.017	0.017	0.017	0.019	0.019
245	8/16/2018	12:07:28	0.027	0.028	0.028	0.033	0.039
246	8/16/2018	12:08:28	0.022	0.022	0.023	0.025	0.026
247	8/16/2018	12:09:28	0.027	0.027	0.028	0.029	0.029
248	8/16/2018	12:10:28	0.043	0.044	0.045	0.047	0.048
249	8/16/2018	12:11:28	0.019	0.019	0.02	0.023	0.024
250	8/16/2018	12:12:28	0.022	0.022	0.023	0.024	0.024
251	8/16/2018	12:13:28	0.028	0.029	0.029	0.031	0.031
252	8/16/2018	12:14:28	0.018	0.019	0.019	0.02	0.02
253	8/16/2018	12:15:28	0.017	0.017	0.017	0.018	0.018
254	8/16/2018	12:16:28	0.018	0.018	0.018	0.019	0.019
255	8/16/2018	12:17:28	0.019	0.019	0.02	0.021	0.022
256	8/16/2018	12:18:28	0.024	0.025	0.026	0.03	0.032
257	8/16/2018	12:19:28	0.019	0.019	0.02	0.023	0.025
258	8/16/2018	12:20:28	0.019	0.019	0.019	0.02	0.02
259	8/16/2018	12:21:28	0.023	0.023	0.024	0.024	0.025

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
260	8/16/2018	12:22:28	0.023	0.024	0.025	0.027	0.028
261	8/16/2018	12:23:28	0.021	0.022	0.022	0.025	0.026
262	8/16/2018	12:24:28	0.017	0.018	0.018	0.019	0.02
263	8/16/2018	12:25:28	0.015	0.015	0.015	0.016	0.016
264	8/16/2018	12:26:28	0.016	0.017	0.017	0.018	0.018
265	8/16/2018	12:27:28	0.018	0.019	0.019	0.021	0.021
266	8/16/2018	12:28:28	0.019	0.02	0.02	0.021	0.021
267	8/16/2018	12:29:28	0.021	0.022	0.023	0.027	0.028
268	8/16/2018	12:30:28	0.016	0.017	0.017	0.019	0.019
269	8/16/2018	12:31:28	0.017	0.018	0.018	0.02	0.02
270	8/16/2018	12:32:28	0.015	0.016	0.016	0.017	0.017
271	8/16/2018	12:33:28	0.016	0.017	0.017	0.02	0.02
272	8/16/2018	12:34:28	0.015	0.015	0.016	0.016	0.016
273	8/16/2018	12:35:28	0.015	0.015	0.016	0.016	0.016
274	8/16/2018	12:36:28	0.055	0.056	0.057	0.069	0.107
275	8/16/2018	12:37:28	0.016	0.017	0.017	0.018	0.018
276	8/16/2018	12:38:28	0.019	0.02	0.021	0.023	0.024
277	8/16/2018	12:39:28	0.016	0.017	0.017	0.017	0.018
278	8/16/2018	12:40:28	0.016	0.017	0.017	0.018	0.018
279	8/16/2018	12:41:28	0.016	0.016	0.016	0.017	0.017
280	8/16/2018	12:42:28	0.02	0.021	0.021	0.022	0.023

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
281	8/16/2018	12:43:28	0.017	0.017	0.017	0.018	0.018
282	8/16/2018	12:44:28	0.016	0.017	0.017	0.018	0.018
283	8/16/2018	12:45:28	0.017	0.018	0.018	0.019	0.02
284	8/16/2018	12:46:28	0.017	0.018	0.018	0.019	0.019
285	8/16/2018	12:47:28	0.021	0.022	0.022	0.023	0.024
286	8/16/2018	12:48:28	0.02	0.02	0.021	0.021	0.022
287	8/16/2018	12:49:28	0.023	0.024	0.025	0.026	0.027
288	8/16/2018	12:50:28	0.025	0.026	0.027	0.029	0.031
289	8/16/2018	12:51:28	0.018	0.019	0.019	0.019	0.019
290	8/16/2018	12:52:28	0.041	0.042	0.042	0.044	0.045
291	8/16/2018	12:53:28	0.027	0.028	0.028	0.029	0.029
292	8/16/2018	12:54:28	0.03	0.031	0.031	0.032	0.032
293	8/16/2018	12:55:28	0.048	0.049	0.049	0.052	0.056
294	8/16/2018	12:56:28	0.052	0.053	0.053	0.054	0.054
295	8/16/2018	12:57:28	0.022	0.022	0.023	0.023	0.024
296	8/16/2018	12:58:28	0.017	0.017	0.018	0.018	0.018
297	8/16/2018	12:59:28	0.018	0.018	0.019	0.019	0.019
298	8/16/2018	13:00:28	0.018	0.018	0.019	0.02	0.02
299	8/16/2018	13:01:28	0.018	0.018	0.019	0.019	0.019
300	8/16/2018	13:02:28	0.017	0.017	0.018	0.018	0.019
301	8/16/2018	13:03:28	0.029	0.03	0.031	0.037	0.041
302	8/16/2018	13:04:28	0.018	0.019	0.019	0.02	0.02

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
303	8/16/2018	13:05:28	0.018	0.018	0.019	0.019	0.02
304	8/16/2018	13:06:28	0.019	0.02	0.02	0.021	0.022
305	8/16/2018	13:07:28	0.018	0.019	0.019	0.02	0.02
306	8/16/2018	13:08:28	0.018	0.018	0.018	0.019	0.021
307	8/16/2018	13:09:28	0.016	0.016	0.016	0.017	0.017
308	8/16/2018	13:10:28	0.018	0.018	0.018	0.019	0.019
309	8/16/2018	13:11:28	0.019	0.02	0.02	0.022	0.022
310	8/16/2018	13:12:28	0.027	0.028	0.029	0.031	0.032
311	8/16/2018	13:13:28	0.023	0.023	0.024	0.026	0.026
312	8/16/2018	13:14:28	0.02	0.021	0.021	0.023	0.024
313	8/16/2018	13:15:28	0.027	0.028	0.029	0.037	0.041
314	8/16/2018	13:16:28	0.031	0.032	0.034	0.039	0.042
315	8/16/2018	13:17:28	0.026	0.026	0.027	0.029	0.029
316	8/16/2018	13:18:28	0.02	0.021	0.021	0.022	0.022
317	8/16/2018	13:19:28	0.018	0.019	0.019	0.02	0.02
318	8/16/2018	13:20:28	0.025	0.026	0.028	0.032	0.035
319	8/16/2018	13:21:28	0.024	0.024	0.025	0.026	0.026
320	8/16/2018	13:22:28	0.037	0.038	0.039	0.042	0.051
321	8/16/2018	13:23:28	0.029	0.031	0.031	0.032	0.033
322	8/16/2018	13:24:28	0.016	0.017	0.017	0.017	0.018
323	8/16/2018	13:25:28	0.02	0.02	0.021	0.022	0.022

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
324	8/16/2018	13:26:28	0.016	0.017	0.017	0.017	0.018
325	8/16/2018	13:27:28	0.022	0.023	0.023	0.025	0.026
326	8/16/2018	13:28:28	0.021	0.021	0.022	0.024	0.024
327	8/16/2018	13:29:28	0.021	0.022	0.022	0.025	0.026
328	8/16/2018	13:30:28	0.016	0.017	0.017	0.018	0.018
329	8/16/2018	13:31:28	0.018	0.019	0.019	0.021	0.022
330	8/16/2018	13:32:28	0.017	0.017	0.018	0.019	0.019
331	8/16/2018	13:33:28	0.016	0.017	0.017	0.018	0.018
332	8/16/2018	13:34:28	0.026	0.028	0.031	0.037	0.04
333	8/16/2018	13:35:28	0.019	0.02	0.02	0.022	0.023
334	8/16/2018	13:36:28	0.019	0.019	0.02	0.022	0.023
335	8/16/2018	13:37:28	0.016	0.016	0.017	0.017	0.017
336	8/16/2018	13:38:28	0.019	0.02	0.021	0.024	0.026
337	8/16/2018	13:39:28	0.017	0.018	0.018	0.019	0.019
338	8/16/2018	13:40:28	0.029	0.03	0.032	0.035	0.036
339	8/16/2018	13:41:28	0.026	0.028	0.03	0.034	0.036
340	8/16/2018	13:42:28	0.02	0.021	0.022	0.023	0.024
341	8/16/2018	13:43:28	0.018	0.018	0.019	0.02	0.02
342	8/16/2018	13:44:28	0.023	0.024	0.025	0.028	0.029
343	8/16/2018	13:45:28	0.023	0.024	0.025	0.028	0.028
344	8/16/2018	13:46:28	0.019	0.02	0.02	0.021	0.022
345	8/16/2018	13:47:28	0.019	0.02	0.02	0.022	0.024

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
346	8/16/2018	13:48:28	0.029	0.03	0.032	0.047	0.057
347	8/16/2018	13:49:28	0.02	0.021	0.022	0.025	0.025
348	8/16/2018	13:50:28	0	0	0	0	0
349	8/16/2018	13:51:28	0.001	0.001	0.001	0.001	0.001
350	8/17/2018	7:18:11	0	0	0	0	0
351	8/17/2018	7:18:28	0.057	0.058	0.059	0.068	0.089

R12231 Upwind on 8/17/18

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	8/17/2018
Instrument S/N	8533104002	Start Time	7:22:24
		Stop Date	8/20/2018
		Stop Time	15:53:24
		Total Time	3:08:31:00
		Logging Interval	60 seconds

Statistics

	PM1	PM2.5	RESP	PM10	TOTAL
Avg	0.045 mg/m^3	0.046 mg/m^3	0.047 mg/m^3	0.052 mg/m^3	0.057 mg/m^3
Max	0.116 mg/m^3	0.125 mg/m^3	0.137 mg/m^3	0.210 mg/m^3	0.320 mg/m^3
Max Date	08/17/2018	08/17/2018	08/17/2018	08/17/2018	08/17/2018
Max Time	10:07:24	10:07:24	10:07:24	10:07:24	09:19:24
Min	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3
Min Date	08/20/2018	08/20/2018	08/20/2018	08/20/2018	08/20/2018
Min Time	15:53:47	15:53:47	15:53:47	15:53:47	15:53:47
TWA (8 hr)	0.031	0.032	0.033	0.036	0.040
TWA Start Date	08/17/2018	08/17/2018	08/17/2018	08/17/2018	08/17/2018
TWA Start Time	07:22:24	07:22:24	07:22:24	07:22:24	07:22:24
TWA End Time	15:53:24	15:53:24	15:53:24	15:53:24	15:53:24

Test Data

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
1	8/17/2018	7:23:24	0.086	0.087	0.088	0.092	0.096
2	8/17/2018	7:24:24	0.083	0.084	0.085	0.091	0.098

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
3	8/17/2018	7:25:24	0.064	0.065	0.065	0.068	0.071
4	8/17/2018	7:26:24	0.059	0.059	0.059	0.06	0.061
5	8/17/2018	7:27:24	0.056	0.056	0.057	0.057	0.058
6	8/17/2018	7:28:24	0.056	0.057	0.057	0.057	0.057
7	8/17/2018	7:29:24	0.058	0.058	0.058	0.059	0.06
8	8/17/2018	7:30:24	0.06	0.06	0.061	0.063	0.066
9	8/17/2018	7:31:24	0.062	0.063	0.064	0.07	0.079
10	8/17/2018	7:32:24	0.055	0.055	0.056	0.057	0.059
11	8/17/2018	7:33:24	0.057	0.058	0.059	0.061	0.063
12	8/17/2018	7:34:24	0.053	0.054	0.054	0.054	0.055
13	8/17/2018	7:35:24	0.053	0.054	0.054	0.054	0.055
14	8/17/2018	7:36:24	0.057	0.057	0.058	0.058	0.059
15	8/17/2018	7:37:24	0.056	0.057	0.057	0.058	0.058
16	8/17/2018	7:38:24	0.056	0.056	0.056	0.056	0.057
17	8/17/2018	7:39:24	0.057	0.057	0.058	0.058	0.058
18	8/17/2018	7:40:24	0.06	0.061	0.062	0.065	0.068
19	8/17/2018	7:41:24	0.057	0.058	0.058	0.06	0.061
20	8/17/2018	7:42:24	0.059	0.06	0.06	0.061	0.061
21	8/17/2018	7:43:24	0.059	0.06	0.06	0.061	0.061
22	8/17/2018	7:44:24	0.059	0.06	0.06	0.06	0.06
23	8/17/2018	7:45:24	0.072	0.074	0.076	0.079	0.08

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
24	8/17/2018	7:46:24	0.072	0.074	0.076	0.082	0.084
25	8/17/2018	7:47:24	0.061	0.062	0.062	0.064	0.067
26	8/17/2018	7:48:24	0.062	0.063	0.064	0.066	0.066
27	8/17/2018	7:49:24	0.059	0.06	0.06	0.063	0.07
28	8/17/2018	7:50:24	0.055	0.055	0.055	0.056	0.056
29	8/17/2018	7:51:24	0.059	0.06	0.06	0.061	0.061
30	8/17/2018	7:52:24	0.062	0.063	0.063	0.065	0.066
31	8/17/2018	7:53:24	0.063	0.065	0.066	0.071	0.083
32	8/17/2018	7:54:24	0.063	0.064	0.064	0.069	0.076
33	8/17/2018	7:55:24	0.058	0.059	0.059	0.061	0.061
34	8/17/2018	7:56:24	0.058	0.059	0.059	0.06	0.06
35	8/17/2018	7:57:24	0.063	0.063	0.064	0.065	0.066
36	8/17/2018	7:58:24	0.061	0.061	0.062	0.065	0.067
37	8/17/2018	7:59:24	0.064	0.065	0.066	0.075	0.088
38	8/17/2018	8:00:24	0.057	0.057	0.058	0.062	0.065
39	8/17/2018	8:01:24	0.075	0.077	0.08	0.103	0.141
40	8/17/2018	8:02:24	0.06	0.06	0.061	0.063	0.063
41	8/17/2018	8:03:24	0.061	0.062	0.063	0.064	0.065
42	8/17/2018	8:04:24	0.064	0.065	0.065	0.068	0.071
43	8/17/2018	8:05:24	0.062	0.063	0.064	0.067	0.069
44	8/17/2018	8:06:24	0.057	0.058	0.058	0.059	0.061
45	8/17/2018	8:07:24	0.057	0.058	0.058	0.059	0.06

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
46	8/17/2018	8:08:24	0.056	0.057	0.057	0.061	0.065
47	8/17/2018	8:09:24	0.05	0.051	0.052	0.053	0.055
48	8/17/2018	8:10:24	0.051	0.051	0.052	0.052	0.052
49	8/17/2018	8:11:24	0.051	0.052	0.052	0.052	0.052
50	8/17/2018	8:12:24	0.049	0.05	0.05	0.051	0.052
51	8/17/2018	8:13:24	0.051	0.052	0.052	0.053	0.053
52	8/17/2018	8:14:24	0.051	0.052	0.052	0.053	0.053
53	8/17/2018	8:15:24	0.051	0.052	0.052	0.052	0.053
54	8/17/2018	8:16:24	0.051	0.052	0.052	0.052	0.052
55	8/17/2018	8:17:24	0.05	0.05	0.05	0.051	0.051
56	8/17/2018	8:18:24	0.053	0.053	0.053	0.055	0.055
57	8/17/2018	8:19:24	0.053	0.054	0.054	0.06	0.069
58	8/17/2018	8:20:24	0.051	0.052	0.052	0.052	0.052
59	8/17/2018	8:21:24	0.052	0.053	0.053	0.054	0.054
60	8/17/2018	8:22:24	0.051	0.051	0.051	0.052	0.052
61	8/17/2018	8:23:24	0.058	0.059	0.06	0.069	0.078
62	8/17/2018	8:24:24	0.058	0.059	0.06	0.067	0.074
63	8/17/2018	8:25:24	0.052	0.053	0.054	0.056	0.059
64	8/17/2018	8:26:24	0.049	0.05	0.05	0.051	0.051
65	8/17/2018	8:27:24	0.057	0.058	0.059	0.064	0.072
66	8/17/2018	8:28:24	0.055	0.056	0.057	0.063	0.071

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
67	8/17/2018	8:29:24	0.053	0.054	0.055	0.056	0.056
68	8/17/2018	8:30:24	0.052	0.053	0.053	0.053	0.053
69	8/17/2018	8:31:24	0.054	0.055	0.055	0.056	0.057
70	8/17/2018	8:32:24	0.052	0.053	0.053	0.054	0.054
71	8/17/2018	8:33:24	0.052	0.053	0.054	0.054	0.055
72	8/17/2018	8:34:24	0.052	0.053	0.054	0.054	0.055
73	8/17/2018	8:35:24	0.05	0.051	0.052	0.052	0.052
74	8/17/2018	8:36:24	0.05	0.051	0.051	0.052	0.053
75	8/17/2018	8:37:24	0.053	0.054	0.054	0.055	0.056
76	8/17/2018	8:38:24	0.058	0.06	0.061	0.065	0.069
77	8/17/2018	8:39:24	0.056	0.058	0.059	0.065	0.068
78	8/17/2018	8:40:24	0.055	0.057	0.058	0.062	0.068
79	8/17/2018	8:41:24	0.054	0.056	0.056	0.058	0.059
80	8/17/2018	8:42:24	0.053	0.054	0.055	0.056	0.056
81	8/17/2018	8:43:24	0.052	0.053	0.054	0.055	0.055
82	8/17/2018	8:44:24	0.049	0.05	0.05	0.051	0.051
83	8/17/2018	8:45:24	0.048	0.049	0.05	0.05	0.05
84	8/17/2018	8:46:24	0.056	0.058	0.059	0.065	0.07
85	8/17/2018	8:47:24	0.09	0.095	0.102	0.14	0.18
86	8/17/2018	8:48:24	0.057	0.059	0.061	0.073	0.091
87	8/17/2018	8:49:24	0.052	0.054	0.055	0.059	0.06
88	8/17/2018	8:50:24	0.072	0.076	0.08	0.097	0.104

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
89	8/17/2018	8:51:24	0.052	0.053	0.054	0.056	0.057
90	8/17/2018	8:52:24	0.049	0.05	0.05	0.051	0.051
91	8/17/2018	8:53:24	0.05	0.051	0.052	0.053	0.054
92	8/17/2018	8:54:24	0.049	0.05	0.051	0.052	0.052
93	8/17/2018	8:55:24	0.05	0.051	0.051	0.051	0.052
94	8/17/2018	8:56:24	0.049	0.05	0.05	0.051	0.051
95	8/17/2018	8:57:24	0.05	0.051	0.052	0.053	0.053
96	8/17/2018	8:58:24	0.05	0.051	0.051	0.051	0.052
97	8/17/2018	8:59:24	0.05	0.05	0.051	0.051	0.051
98	8/17/2018	9:00:24	0.054	0.055	0.056	0.057	0.057
99	8/17/2018	9:01:24	0.057	0.059	0.059	0.061	0.063
100	8/17/2018	9:02:24	0.066	0.068	0.069	0.08	0.092
101	8/17/2018	9:03:24	0.053	0.054	0.055	0.058	0.061
102	8/17/2018	9:04:24	0.049	0.05	0.05	0.05	0.051
103	8/17/2018	9:05:24	0.047	0.048	0.048	0.049	0.049
104	8/17/2018	9:06:24	0.047	0.048	0.048	0.049	0.049
105	8/17/2018	9:07:24	0.071	0.074	0.079	0.098	0.105
106	8/17/2018	9:08:24	0.047	0.048	0.049	0.05	0.05
107	8/17/2018	9:09:24	0.051	0.052	0.053	0.057	0.061
108	8/17/2018	9:10:24	0.048	0.049	0.05	0.052	0.053
109	8/17/2018	9:11:24	0.05	0.051	0.052	0.053	0.054

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
110	8/17/2018	9:12:24	0.048	0.049	0.049	0.051	0.052
111	8/17/2018	9:13:24	0.054	0.055	0.056	0.057	0.057
112	8/17/2018	9:14:24	0.047	0.048	0.048	0.049	0.049
113	8/17/2018	9:15:24	0.046	0.047	0.047	0.048	0.048
114	8/17/2018	9:16:24	0.045	0.046	0.046	0.047	0.047
115	8/17/2018	9:17:24	0.047	0.048	0.048	0.049	0.049
116	8/17/2018	9:18:24	0.079	0.081	0.085	0.117	0.171
117	8/17/2018	9:19:24	0.1	0.105	0.114	0.197	0.32
118	8/17/2018	9:20:24	0.049	0.05	0.051	0.053	0.057
119	8/17/2018	9:21:24	0.051	0.052	0.053	0.053	0.053
120	8/17/2018	9:22:24	0.052	0.054	0.054	0.057	0.06
121	8/17/2018	9:23:24	0.058	0.06	0.061	0.068	0.077
122	8/17/2018	9:24:24	0.049	0.05	0.051	0.052	0.052
123	8/17/2018	9:25:24	0.048	0.049	0.049	0.05	0.05
124	8/17/2018	9:26:24	0.048	0.049	0.049	0.049	0.05
125	8/17/2018	9:27:24	0.044	0.045	0.045	0.046	0.046
126	8/17/2018	9:28:24	0.044	0.045	0.045	0.046	0.046
127	8/17/2018	9:29:24	0.092	0.098	0.104	0.143	0.164
128	8/17/2018	9:30:24	0.074	0.079	0.085	0.111	0.127
129	8/17/2018	9:31:24	0.053	0.054	0.055	0.062	0.069
130	8/17/2018	9:32:24	0.05	0.051	0.052	0.053	0.053
131	8/17/2018	9:33:24	0.052	0.053	0.054	0.058	0.061

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
132	8/17/2018	9:34:24	0.057	0.058	0.06	0.067	0.079
133	8/17/2018	9:35:24	0.053	0.054	0.055	0.056	0.056
134	8/17/2018	9:36:24	0.048	0.049	0.05	0.05	0.05
135	8/17/2018	9:37:24	0.048	0.049	0.049	0.049	0.049
136	8/17/2018	9:38:24	0.048	0.048	0.049	0.049	0.049
137	8/17/2018	9:39:24	0.047	0.047	0.048	0.048	0.048
138	8/17/2018	9:40:24	0.045	0.045	0.045	0.046	0.046
139	8/17/2018	9:41:24	0.045	0.046	0.046	0.047	0.048
140	8/17/2018	9:42:24	0.046	0.046	0.047	0.049	0.051
141	8/17/2018	9:43:24	0.047	0.048	0.048	0.05	0.052
142	8/17/2018	9:44:24	0.046	0.047	0.047	0.048	0.049
143	8/17/2018	9:45:24	0.046	0.047	0.047	0.048	0.049
144	8/17/2018	9:46:24	0.046	0.047	0.047	0.048	0.048
145	8/17/2018	9:47:24	0.047	0.048	0.048	0.049	0.05
146	8/17/2018	9:48:24	0.047	0.047	0.048	0.049	0.049
147	8/17/2018	9:49:24	0.046	0.047	0.047	0.048	0.048
148	8/17/2018	9:50:24	0.046	0.046	0.047	0.047	0.047
149	8/17/2018	9:51:24	0.045	0.046	0.046	0.046	0.047
150	8/17/2018	9:52:24	0.048	0.048	0.049	0.05	0.05
151	8/17/2018	9:53:24	0.047	0.048	0.048	0.05	0.053
152	8/17/2018	9:54:24	0.046	0.047	0.047	0.048	0.051

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
153	8/17/2018	9:55:24	0.054	0.056	0.057	0.07	0.089
154	8/17/2018	9:56:24	0.096	0.101	0.108	0.165	0.236
155	8/17/2018	9:57:24	0.05	0.052	0.053	0.058	0.062
156	8/17/2018	9:58:24	0.045	0.045	0.046	0.047	0.048
157	8/17/2018	9:59:24	0.043	0.044	0.044	0.044	0.045
158	8/17/2018	10:00:24	0.044	0.044	0.045	0.045	0.045
159	8/17/2018	10:01:24	0.045	0.045	0.046	0.046	0.047
160	8/17/2018	10:02:24	0.043	0.043	0.043	0.044	0.044
161	8/17/2018	10:03:24	0.042	0.043	0.043	0.044	0.045
162	8/17/2018	10:04:24	0.044	0.044	0.045	0.045	0.045
163	8/17/2018	10:05:24	0.047	0.048	0.049	0.049	0.05
164	8/17/2018	10:06:24	0.05	0.051	0.051	0.055	0.058
165	8/17/2018	10:07:24	0.116	0.125	0.137	0.21	0.263
166	8/17/2018	10:08:24	0.042	0.042	0.043	0.044	0.045
167	8/17/2018	10:09:24	0.042	0.042	0.042	0.043	0.043
168	8/17/2018	10:10:24	0.043	0.044	0.044	0.044	0.044
169	8/17/2018	10:11:24	0.044	0.045	0.045	0.046	0.046
170	8/17/2018	10:12:24	0.042	0.043	0.043	0.044	0.044
171	8/17/2018	10:13:24	0.043	0.044	0.044	0.045	0.046
172	8/17/2018	10:14:24	0.042	0.043	0.043	0.043	0.043
173	8/17/2018	10:15:24	0.042	0.043	0.043	0.044	0.044
174	8/17/2018	10:16:24	0.041	0.042	0.043	0.043	0.044

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
175	8/17/2018	10:17:24	0.04	0.041	0.042	0.042	0.043
176	8/17/2018	10:18:24	0.043	0.043	0.044	0.046	0.048
177	8/17/2018	10:19:24	0.041	0.042	0.042	0.043	0.044
178	8/17/2018	10:20:24	0.041	0.042	0.043	0.045	0.046
179	8/17/2018	10:21:24	0.042	0.043	0.044	0.049	0.056
180	8/17/2018	10:22:24	0.041	0.042	0.043	0.047	0.051
181	8/17/2018	10:23:24	0.042	0.043	0.043	0.046	0.048
182	8/17/2018	10:24:24	0.041	0.042	0.042	0.044	0.044
183	8/17/2018	10:25:24	0.039	0.04	0.041	0.041	0.041
184	8/17/2018	10:26:24	0.038	0.039	0.039	0.04	0.04
185	8/17/2018	10:27:24	0.075	0.078	0.083	0.129	0.205
186	8/17/2018	10:28:24	0.035	0.036	0.036	0.037	0.038
187	8/17/2018	10:29:24	0.038	0.039	0.04	0.045	0.052
188	8/17/2018	10:30:24	0.043	0.044	0.045	0.053	0.062
189	8/17/2018	10:31:24	0.038	0.039	0.039	0.043	0.047
190	8/17/2018	10:32:24	0.043	0.044	0.046	0.056	0.068
191	8/17/2018	10:33:24	0.036	0.036	0.037	0.038	0.039
192	8/17/2018	10:34:24	0.043	0.044	0.046	0.056	0.072
193	8/17/2018	10:35:24	0.037	0.038	0.038	0.04	0.04
194	8/17/2018	10:36:24	0.035	0.036	0.036	0.037	0.038
195	8/17/2018	10:37:24	0.035	0.036	0.036	0.037	0.037

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
196	8/17/2018	10:38:24	0.034	0.034	0.034	0.035	0.035
197	8/17/2018	10:39:24	0.034	0.034	0.034	0.035	0.035
198	8/17/2018	10:40:24	0.05	0.051	0.054	0.071	0.094
199	8/17/2018	10:41:24	0.035	0.036	0.036	0.038	0.039
200	8/17/2018	10:42:24	0.032	0.032	0.033	0.034	0.036
201	8/17/2018	10:43:24	0.033	0.033	0.034	0.035	0.035
202	8/17/2018	10:44:24	0.033	0.033	0.034	0.034	0.034
203	8/17/2018	10:45:24	0.032	0.033	0.033	0.034	0.034
204	8/17/2018	10:46:24	0.032	0.032	0.033	0.033	0.034
205	8/17/2018	10:47:24	0.035	0.035	0.036	0.04	0.044
206	8/17/2018	10:48:24	0.032	0.033	0.033	0.034	0.034
207	8/17/2018	10:49:24	0.034	0.035	0.035	0.037	0.038
208	8/17/2018	10:50:24	0.033	0.034	0.035	0.036	0.038
209	8/17/2018	10:51:24	0.034	0.034	0.035	0.037	0.037
210	8/17/2018	10:52:24	0.035	0.036	0.036	0.039	0.043
211	8/17/2018	10:53:24	0.041	0.043	0.044	0.055	0.068
212	8/17/2018	10:54:24	0.036	0.037	0.038	0.04	0.042
213	8/17/2018	10:55:24	0.034	0.035	0.036	0.039	0.04
214	8/17/2018	10:56:24	0.034	0.035	0.035	0.037	0.039
215	8/17/2018	10:57:24	0.066	0.069	0.075	0.108	0.133
216	8/17/2018	10:58:24	0.036	0.037	0.038	0.044	0.047
217	8/17/2018	10:59:24	0.033	0.034	0.035	0.037	0.038

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
218	8/17/2018	11:00:24	0.031	0.032	0.032	0.034	0.036
219	8/17/2018	11:01:24	0.029	0.03	0.03	0.03	0.03
220	8/17/2018	11:02:24	0.03	0.03	0.031	0.032	0.034
221	8/17/2018	11:03:24	0.032	0.033	0.034	0.037	0.04
222	8/17/2018	11:04:24	0.029	0.029	0.03	0.031	0.033
223	8/17/2018	11:05:24	0.081	0.085	0.092	0.159	0.234
224	8/17/2018	11:06:24	0.091	0.097	0.107	0.178	0.256
225	8/17/2018	11:07:24	0.039	0.041	0.043	0.054	0.065
226	8/17/2018	11:08:24	0.061	0.065	0.068	0.091	0.11
227	8/17/2018	11:09:24	0.029	0.03	0.03	0.031	0.032
228	8/17/2018	11:10:24	0.033	0.034	0.034	0.037	0.042
229	8/17/2018	11:11:24	0.032	0.033	0.034	0.037	0.038
230	8/17/2018	11:12:24	0.029	0.029	0.03	0.031	0.034
231	8/17/2018	11:13:24	0.027	0.027	0.028	0.028	0.028
232	8/17/2018	11:14:24	0.026	0.027	0.027	0.028	0.029
233	8/17/2018	11:15:24	0.034	0.034	0.035	0.039	0.047
234	8/17/2018	11:16:24	0.058	0.06	0.065	0.11	0.176
235	8/17/2018	11:17:24	0.029	0.029	0.03	0.03	0.032
236	8/17/2018	11:18:24	0.03	0.031	0.032	0.035	0.038
237	8/17/2018	11:19:24	0.025	0.025	0.026	0.026	0.027
238	8/17/2018	11:20:24	0.026	0.027	0.027	0.029	0.03

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
239	8/17/2018	11:21:24	0.031	0.031	0.032	0.034	0.037
240	8/17/2018	11:22:24	0.03	0.031	0.032	0.036	0.038
241	8/17/2018	11:23:24	0.031	0.032	0.032	0.035	0.036
242	8/17/2018	11:24:24	0.028	0.029	0.029	0.03	0.031
243	8/17/2018	11:25:24	0.028	0.029	0.029	0.031	0.031
244	8/17/2018	11:26:24	0.024	0.025	0.025	0.026	0.026
245	8/17/2018	11:27:24	0.026	0.026	0.027	0.027	0.028
246	8/17/2018	11:28:24	0.031	0.032	0.032	0.038	0.041
247	8/17/2018	11:29:24	0.029	0.03	0.031	0.036	0.047
248	8/17/2018	11:30:24	0.024	0.024	0.024	0.025	0.025
249	8/17/2018	11:31:24	0.023	0.024	0.024	0.025	0.025
250	8/17/2018	11:32:24	0.025	0.026	0.026	0.026	0.028
251	8/17/2018	11:33:24	0.034	0.035	0.036	0.049	0.062
252	8/17/2018	11:34:24	0.027	0.028	0.028	0.03	0.03
253	8/17/2018	11:35:24	0.028	0.029	0.029	0.032	0.036
254	8/17/2018	11:36:24	0.027	0.028	0.028	0.031	0.033
255	8/17/2018	11:37:24	0.026	0.026	0.027	0.03	0.032
256	8/17/2018	11:38:24	0.026	0.027	0.027	0.028	0.029
257	8/17/2018	11:39:24	0.026	0.027	0.027	0.03	0.03
258	8/17/2018	11:40:24	0.024	0.025	0.025	0.026	0.027
259	8/17/2018	11:41:24	0.023	0.024	0.024	0.024	0.024
260	8/17/2018	11:42:24	0.025	0.026	0.026	0.027	0.028

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
261	8/17/2018	11:43:24	0.041	0.043	0.045	0.065	0.099
262	8/17/2018	11:44:24	0.031	0.031	0.032	0.036	0.041
263	8/17/2018	11:45:24	0.037	0.038	0.038	0.042	0.047
264	8/17/2018	11:46:24	0.024	0.025	0.025	0.026	0.028
265	8/17/2018	11:47:24	0.024	0.025	0.025	0.027	0.028
266	8/17/2018	11:48:24	0.034	0.035	0.036	0.044	0.063
267	8/17/2018	11:49:24	0.031	0.032	0.033	0.043	0.057
268	8/17/2018	11:50:24	0.029	0.03	0.032	0.04	0.051
269	8/17/2018	11:51:24	0.031	0.032	0.032	0.036	0.04
270	8/17/2018	11:52:24	0.031	0.032	0.033	0.038	0.048
271	8/17/2018	11:53:24	0.027	0.028	0.028	0.031	0.035
272	8/17/2018	11:54:24	0.028	0.028	0.028	0.029	0.03
273	8/17/2018	11:55:24	0.034	0.035	0.036	0.041	0.047
274	8/17/2018	11:56:24	0.028	0.028	0.029	0.031	0.033
275	8/17/2018	11:57:24	0.027	0.028	0.028	0.029	0.03
276	8/17/2018	11:58:24	0.041	0.042	0.045	0.062	0.088
277	8/17/2018	11:59:24	0.028	0.028	0.029	0.031	0.035
278	8/17/2018	12:00:24	0.03	0.03	0.031	0.034	0.043
279	8/17/2018	12:01:24	0.028	0.029	0.029	0.03	0.032
280	8/17/2018	12:02:24	0.03	0.031	0.031	0.034	0.038
281	8/17/2018	12:03:24	0.031	0.032	0.033	0.034	0.038

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
282	8/17/2018	12:04:24	0.025	0.026	0.026	0.028	0.029
283	8/17/2018	12:05:24	0.025	0.025	0.025	0.026	0.026
284	8/17/2018	12:06:24	0.028	0.028	0.029	0.03	0.032
285	8/17/2018	12:07:24	0.039	0.04	0.041	0.046	0.053
286	8/17/2018	12:08:24	0.033	0.034	0.035	0.039	0.042
287	8/17/2018	12:09:24	0.034	0.035	0.036	0.042	0.047
288	8/17/2018	12:10:24	0.032	0.033	0.033	0.038	0.042
289	8/17/2018	12:11:24	0.028	0.029	0.029	0.032	0.035
290	8/17/2018	12:12:24	0.029	0.03	0.03	0.033	0.037
291	8/17/2018	12:13:24	0.03	0.031	0.032	0.035	0.041
292	8/17/2018	12:14:24	0.041	0.043	0.045	0.058	0.075
293	8/17/2018	12:15:24	0.026	0.027	0.028	0.032	0.039
294	8/17/2018	12:16:24	0.029	0.03	0.031	0.036	0.04
295	8/17/2018	12:17:24	0.061	0.065	0.069	0.105	0.147
296	8/17/2018	12:18:24	0.029	0.029	0.03	0.033	0.034
297	8/17/2018	12:19:24	0.028	0.029	0.03	0.033	0.037
298	8/17/2018	12:20:24	0.046	0.048	0.05	0.065	0.082
299	8/17/2018	12:21:24	0.028	0.029	0.03	0.036	0.044
300	8/17/2018	12:22:24	0.027	0.027	0.028	0.03	0.034
301	8/17/2018	12:23:24	0.027	0.028	0.028	0.03	0.033
302	8/17/2018	12:24:24	0.027	0.028	0.029	0.031	0.034
303	8/17/2018	12:25:24	0.036	0.037	0.039	0.05	0.066

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
304	8/17/2018	12:26:24	0.029	0.03	0.031	0.035	0.037
305	8/17/2018	12:27:24	0.03	0.031	0.032	0.033	0.038
306	8/17/2018	12:28:24	0.028	0.029	0.03	0.035	0.042
307	8/17/2018	12:29:24	0.041	0.042	0.043	0.047	0.056
308	8/17/2018	12:30:24	0.095	0.1	0.109	0.18	0.25
309	8/17/2018	12:31:24	0.046	0.048	0.052	0.076	0.107
310	8/17/2018	12:32:24	0.032	0.033	0.033	0.037	0.039
311	8/17/2018	12:33:24	0.033	0.034	0.035	0.039	0.043
312	8/17/2018	12:34:24	0.034	0.035	0.036	0.044	0.052
313	8/17/2018	12:35:24	0.041	0.043	0.044	0.059	0.08
314	8/17/2018	12:36:24	0.032	0.033	0.034	0.036	0.037
315	8/17/2018	12:37:24	0.032	0.033	0.033	0.035	0.036
316	8/17/2018	12:38:24	0.028	0.028	0.029	0.031	0.033
317	8/17/2018	12:39:24	0.03	0.031	0.031	0.033	0.036
318	8/17/2018	12:40:24	0.027	0.027	0.028	0.028	0.029
319	8/17/2018	12:41:24	0.03	0.031	0.032	0.035	0.038
320	8/17/2018	12:42:24	0.031	0.032	0.033	0.037	0.044
321	8/17/2018	12:43:24	0.029	0.029	0.029	0.03	0.031
322	8/17/2018	12:44:24	0.031	0.031	0.032	0.034	0.034
323	8/17/2018	12:45:24	0.031	0.032	0.032	0.033	0.035
324	8/17/2018	12:46:24	0.042	0.043	0.045	0.059	0.082

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
325	8/17/2018	12:47:24	0.041	0.042	0.043	0.051	0.061
326	8/17/2018	12:48:24	0.057	0.058	0.059	0.063	0.076
327	8/17/2018	12:49:24	0.032	0.033	0.034	0.034	0.035
328	8/17/2018	12:50:24	0.03	0.031	0.032	0.035	0.042
329	8/17/2018	12:51:24	0.028	0.028	0.028	0.029	0.03
330	8/17/2018	12:52:24	0.029	0.03	0.03	0.032	0.033
331	8/17/2018	12:53:24	0.027	0.028	0.028	0.03	0.032
332	8/17/2018	12:54:24	0.038	0.04	0.041	0.047	0.051
333	8/17/2018	12:55:24	0.039	0.04	0.041	0.046	0.051
334	8/17/2018	12:56:24	0.032	0.033	0.033	0.037	0.038
335	8/17/2018	12:57:24	0.033	0.034	0.035	0.039	0.046
336	8/17/2018	12:58:24	0.037	0.038	0.039	0.044	0.048
337	8/20/2018	15:53:47	0	0	0	0	0

R136724 - Downwind on 8/16/18

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	8/16/2018
Instrument S/N	8533122602	Start Time	8:11:18
		Stop Date	8/16/2018
		Stop Time	8:38:18
		Total Time	0:00:27:00
		Logging Interval	60 seconds

Statistics

	PM1	PM2.5	RESP	PM10	TOTAL
Avg	0.042 mg/m^3	0.044 mg/m^3	0.048 mg/m^3	0.064 mg/m^3	0.066 mg/m^3
Max	0.186 mg/m^3	0.204 mg/m^3	0.259 mg/m^3	0.477 mg/m^3	0.501 mg/m^3
Max Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
Max Time	08:28:18	08:28:18	08:28:18	08:28:18	08:28:18
Min	0.027 mg/m^3	0.028 mg/m^3	0.028 mg/m^3	0.028 mg/m^3	0.028 mg/m^3
Min Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
Min Time	08:37:18	08:37:18	08:37:18	08:37:18	08:37:18
TWA (8 hr)	0.002	0.002	0.003	0.004	0.004
TWA Start Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
TWA Start Time	08:11:18	08:11:18	08:11:18	08:11:18	08:11:18
TWA End Time	08:38:18	08:38:18	08:38:18	08:38:18	08:38:18

Test Data

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
1	8/16/2018	8:12:18	0.04	0.04	0.041	0.043	0.043
2	8/16/2018	8:13:18	0.04	0.042	0.044	0.054	0.057

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
3	8/16/2018	8:14:18	0.037	0.038	0.039	0.044	0.045
4	8/16/2018	8:15:18	0.047	0.049	0.053	0.071	0.074
5	8/16/2018	8:16:18	0.036	0.037	0.038	0.04	0.04
6	8/16/2018	8:17:18	0.034	0.035	0.035	0.036	0.036
7	8/16/2018	8:18:18	0.033	0.034	0.034	0.035	0.035
8	8/16/2018	8:19:18	0.033	0.034	0.035	0.036	0.036
9	8/16/2018	8:20:18	0.034	0.035	0.036	0.038	0.038
10	8/16/2018	8:21:18	0.052	0.054	0.061	0.096	0.1
11	8/16/2018	8:22:18	0.031	0.033	0.033	0.034	0.034
12	8/16/2018	8:23:18	0.032	0.033	0.034	0.035	0.035
13	8/16/2018	8:24:18	0.033	0.034	0.035	0.039	0.039
14	8/16/2018	8:25:18	0.038	0.039	0.042	0.052	0.053
15	8/16/2018	8:26:18	0.038	0.039	0.043	0.057	0.058
16	8/16/2018	8:27:18	0.03	0.031	0.032	0.033	0.033
17	8/16/2018	8:28:18	0.186	0.204	0.259	0.477	0.501
18	8/16/2018	8:29:18	0.032	0.034	0.036	0.042	0.043
19	8/16/2018	8:30:18	0.032	0.033	0.034	0.039	0.039
20	8/16/2018	8:31:18	0.038	0.04	0.044	0.061	0.063
21	8/16/2018	8:32:18	0.029	0.029	0.03	0.03	0.03
22	8/16/2018	8:33:18	0.029	0.03	0.031	0.033	0.033
23	8/16/2018	8:34:18	0.04	0.042	0.045	0.059	0.062

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3	TOTAL mg/m^3
24	8/16/2018	8:35:18	0.062	0.066	0.079	0.131	0.136
25	8/16/2018	8:36:18	0.032	0.034	0.036	0.045	0.045
26	8/16/2018	8:37:18	0.027	0.028	0.028	0.028	0.028
27	8/16/2018	8:38:18	0.031	0.032	0.034	0.041	0.042

R136724 Downwind on 8/16/18 and 8/17/18

Instrument		Data Properties	
Model	DustTrak DRX	Start Date	8/16/2018
Instrument S/N	8533122602	Start Time	8:41:50
		Stop Date	8/17/2018
		Stop Time	6:51:50
		Total Time	0:22:10:00
		Logging Interval	60 seconds

Statistics

	PM1	PM2.5	RESP	PM10	TOTAL
Avg	0.026 mg/m^3	0.027 mg/m^3	0.029 mg/m^3	0.038 mg/m^3	0.038 mg/m^3
Max	0.200 mg/m^3	0.220 mg/m^3	0.287 mg/m^3	0.539 mg/m^3	0.547 mg/m^3
Max Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
Max Time	11:04:50	11:04:50	11:04:50	11:04:50	11:04:50
Min	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3	0.000 mg/m^3
Min Date	08/17/2018	08/17/2018	08/17/2018	08/17/2018	08/17/2018
Min Time	06:51:42	06:51:42	06:51:42	06:51:42	06:51:42
TWA (8 hr)	0.020	0.021	0.023	0.029	0.030
TWA Start Date	08/16/2018	08/16/2018	08/16/2018	08/16/2018	08/16/2018
TWA Start Time	08:41:50	08:41:50	08:41:50	08:41:50	08:41:50
TWA End Time	06:51:50	06:51:50	06:51:50	06:51:50	06:51:50

Test Data

Data Point	Date	Time	PM1 mg/m^3	PM2.5 mg/m^3	RESP mg/m^3	PM10 mg/m^3
1	8/16/2018	8:42:50	0.029	0.03	0.031	0.04

2	8/16/2018	8:43:50	0.03	0.031	0.033	0.038
3	8/16/2018	8:44:50	0.05	0.053	0.062	0.096
4	8/16/2018	8:45:50	0.03	0.031	0.032	0.038
5	8/16/2018	8:46:50	0.071	0.077	0.093	0.148
6	8/16/2018	8:47:50	0.028	0.029	0.03	0.033
7	8/16/2018	8:48:50	0.026	0.027	0.028	0.029
8	8/16/2018	8:49:50	0.047	0.049	0.057	0.085
9	8/16/2018	8:50:50	0.028	0.029	0.03	0.034
10	8/16/2018	8:51:50	0.027	0.028	0.028	0.029
11	8/16/2018	8:52:50	0.033	0.035	0.037	0.043
12	8/16/2018	8:53:50	0.028	0.029	0.031	0.034
13	8/16/2018	8:54:50	0.025	0.026	0.026	0.027
14	8/16/2018	8:55:50	0.025	0.026	0.026	0.026
15	8/16/2018	8:56:50	0.025	0.026	0.026	0.027
16	8/16/2018	8:57:50	0.024	0.025	0.025	0.025
17	8/16/2018	8:58:50	0.026	0.027	0.027	0.029
18	8/16/2018	8:59:50	0.031	0.032	0.035	0.046
19	8/16/2018	9:00:50	0.027	0.028	0.029	0.032
20	8/16/2018	9:01:50	0.026	0.026	0.027	0.028
21	8/16/2018	9:02:50	0.026	0.027	0.028	0.029
22	8/16/2018	9:03:50	0.026	0.027	0.027	0.028
23	8/16/2018	9:04:50	0.025	0.026	0.027	0.028
24	8/16/2018	9:05:50	0.026	0.027	0.027	0.028

25	8/16/2018	9:06:50	0.026	0.027	0.027	0.027
26	8/16/2018	9:07:50	0.027	0.028	0.029	0.03
27	8/16/2018	9:08:50	0.027	0.028	0.029	0.031
28	8/16/2018	9:09:50	0.026	0.027	0.028	0.029
29	8/16/2018	9:10:50	0.028	0.029	0.03	0.032
30	8/16/2018	9:11:50	0.026	0.027	0.027	0.028
31	8/16/2018	9:12:50	0.024	0.025	0.025	0.025
32	8/16/2018	9:13:50	0.032	0.033	0.035	0.036
33	8/16/2018	9:14:50	0.025	0.026	0.027	0.03
34	8/16/2018	9:15:50	0.024	0.024	0.025	0.025
35	8/16/2018	9:16:50	0.041	0.043	0.051	0.079
36	8/16/2018	9:17:50	0.024	0.025	0.026	0.027
37	8/16/2018	9:18:50	0.025	0.026	0.027	0.031
38	8/16/2018	9:19:50	0.023	0.024	0.024	0.025
39	8/16/2018	9:20:50	0.024	0.025	0.026	0.029
40	8/16/2018	9:21:50	0.023	0.023	0.024	0.026
41	8/16/2018	9:22:50	0.027	0.028	0.03	0.037
42	8/16/2018	9:23:50	0.027	0.029	0.03	0.038
43	8/16/2018	9:24:50	0.025	0.026	0.027	0.031
44	8/16/2018	9:25:50	0.025	0.026	0.028	0.033
45	8/16/2018	9:26:50	0.022	0.023	0.024	0.026
46	8/16/2018	9:27:50	0.022	0.023	0.024	0.025

47	8/16/2018	9:28:50	0.023	0.023	0.024	0.026
48	8/16/2018	9:29:50	0.04	0.042	0.048	0.074
49	8/16/2018	9:30:50	0.035	0.037	0.041	0.059
50	8/16/2018	9:31:50	0.024	0.025	0.026	0.028
51	8/16/2018	9:32:50	0.025	0.025	0.027	0.029
52	8/16/2018	9:33:50	0.024	0.025	0.025	0.027
53	8/16/2018	9:34:50	0.022	0.023	0.023	0.024
54	8/16/2018	9:35:50	0.022	0.023	0.023	0.024
55	8/16/2018	9:36:50	0.026	0.027	0.028	0.03
56	8/16/2018	9:37:50	0.032	0.033	0.037	0.049
57	8/16/2018	9:38:50	0.027	0.028	0.03	0.035
58	8/16/2018	9:39:50	0.037	0.039	0.044	0.066
59	8/16/2018	9:40:50	0.026	0.027	0.029	0.03
60	8/16/2018	9:41:50	0.026	0.028	0.029	0.031
61	8/16/2018	9:42:50	0.027	0.028	0.029	0.033
62	8/16/2018	9:43:50	0.024	0.025	0.026	0.027
63	8/16/2018	9:44:50	0.028	0.029	0.031	0.033
64	8/16/2018	9:45:50	0.025	0.025	0.026	0.027
65	8/16/2018	9:46:50	0.027	0.028	0.03	0.035
66	8/16/2018	9:47:50	0.025	0.026	0.027	0.03
67	8/16/2018	9:48:50	0.025	0.027	0.028	0.03
68	8/16/2018	9:49:50	0.025	0.026	0.028	0.03
69	8/16/2018	9:50:50	0.026	0.027	0.028	0.033

70	8/16/2018	9:51:50	0.026	0.027	0.028	0.03
71	8/16/2018	9:52:50	0.024	0.025	0.026	0.028
72	8/16/2018	9:53:50	0.026	0.027	0.029	0.031
73	8/16/2018	9:54:50	0.026	0.027	0.028	0.031
74	8/16/2018	9:55:50	0.027	0.029	0.031	0.035
75	8/16/2018	9:56:50	0.024	0.025	0.026	0.027
76	8/16/2018	9:57:50	0.099	0.107	0.135	0.259
77	8/16/2018	9:58:50	0.067	0.072	0.09	0.166
78	8/16/2018	9:59:50	0.026	0.027	0.028	0.032
79	8/16/2018	10:00:50	0.024	0.025	0.026	0.027
80	8/16/2018	10:01:50	0.024	0.025	0.026	0.027
81	8/16/2018	10:02:50	0.024	0.025	0.026	0.027
82	8/16/2018	10:03:50	0.024	0.025	0.026	0.027
83	8/16/2018	10:04:50	0.024	0.025	0.026	0.027
84	8/16/2018	10:05:50	0.032	0.034	0.037	0.048
85	8/16/2018	10:06:50	0.029	0.03	0.032	0.042
86	8/16/2018	10:07:50	0.025	0.026	0.027	0.03
87	8/16/2018	10:08:50	0.024	0.025	0.025	0.026
88	8/16/2018	10:09:50	0.025	0.026	0.027	0.029
89	8/16/2018	10:10:50	0.025	0.025	0.026	0.028
90	8/16/2018	10:11:50	0.121	0.131	0.168	0.323
91	8/16/2018	10:12:50	0.029	0.03	0.032	0.041

92	8/16/2018	10:13:50	0.025	0.026	0.028	0.03
93	8/16/2018	10:14:50	0.025	0.026	0.027	0.029
94	8/16/2018	10:15:50	0.024	0.025	0.026	0.026
95	8/16/2018	10:16:50	0.025	0.025	0.026	0.029
96	8/16/2018	10:17:50	0.025	0.025	0.026	0.028
97	8/16/2018	10:18:50	0.029	0.03	0.031	0.034
98	8/16/2018	10:19:50	0.026	0.027	0.027	0.028
99	8/16/2018	10:20:50	0.027	0.028	0.029	0.03
100	8/16/2018	10:21:50	0.026	0.027	0.028	0.029
101	8/16/2018	10:22:50	0.026	0.027	0.027	0.028
102	8/16/2018	10:23:50	0.031	0.033	0.036	0.043
103	8/16/2018	10:24:50	0.031	0.032	0.034	0.038
104	8/16/2018	10:25:50	0.029	0.031	0.033	0.035
105	8/16/2018	10:26:50	0.026	0.027	0.028	0.03
106	8/16/2018	10:27:50	0.033	0.034	0.035	0.037
107	8/16/2018	10:28:50	0.026	0.027	0.028	0.03
108	8/16/2018	10:29:50	0.065	0.07	0.083	0.135
109	8/16/2018	10:30:50	0.062	0.067	0.081	0.136
110	8/16/2018	10:31:50	0.026	0.027	0.028	0.03
111	8/16/2018	10:32:50	0.028	0.029	0.031	0.035
112	8/16/2018	10:33:50	0.025	0.026	0.027	0.028
113	8/16/2018	10:34:50	0.025	0.026	0.027	0.028
114	8/16/2018	10:35:50	0.026	0.026	0.027	0.028

115	8/16/2018	10:36:50	0.026	0.027	0.027	0.028
116	8/16/2018	10:37:50	0.075	0.08	0.096	0.171
117	8/16/2018	10:38:50	0.034	0.035	0.037	0.045
118	8/16/2018	10:39:50	0.03	0.031	0.032	0.035
119	8/16/2018	10:40:50	0.031	0.032	0.034	0.036
120	8/16/2018	10:41:50	0.029	0.029	0.03	0.032
121	8/16/2018	10:42:50	0.028	0.029	0.03	0.031
122	8/16/2018	10:43:50	0.029	0.03	0.03	0.031
123	8/16/2018	10:44:50	0.029	0.03	0.03	0.031
124	8/16/2018	10:45:50	0.029	0.03	0.031	0.032
125	8/16/2018	10:46:50	0.032	0.033	0.035	0.037
126	8/16/2018	10:47:50	0.029	0.03	0.031	0.032
127	8/16/2018	10:48:50	0.029	0.03	0.031	0.032
128	8/16/2018	10:49:50	0.031	0.032	0.033	0.034
129	8/16/2018	10:50:50	0.031	0.032	0.034	0.039
130	8/16/2018	10:51:50	0.029	0.03	0.03	0.032
131	8/16/2018	10:52:50	0.029	0.03	0.03	0.031
132	8/16/2018	10:53:50	0.028	0.029	0.03	0.03
133	8/16/2018	10:54:50	0.029	0.03	0.031	0.032
134	8/16/2018	10:55:50	0.03	0.031	0.031	0.033
135	8/16/2018	10:56:50	0.03	0.031	0.032	0.033
136	8/16/2018	10:57:50	0.037	0.038	0.04	0.042

137	8/16/2018	10:58:50	0.039	0.04	0.044	0.06
138	8/16/2018	10:59:50	0.035	0.037	0.039	0.047
139	8/16/2018	11:00:50	0.031	0.032	0.033	0.036
140	8/16/2018	11:01:50	0.032	0.034	0.035	0.039
141	8/16/2018	11:02:50	0.029	0.029	0.03	0.031
142	8/16/2018	11:03:50	0.028	0.029	0.03	0.03
143	8/16/2018	11:04:50	0.2	0.22	0.287	0.539
144	8/16/2018	11:05:50	0.03	0.031	0.033	0.039
145	8/16/2018	11:06:50	0.03	0.031	0.032	0.037
146	8/16/2018	11:07:50	0.026	0.026	0.027	0.028
147	8/16/2018	11:08:50	0.025	0.026	0.026	0.028
148	8/16/2018	11:09:50	0.026	0.027	0.028	0.029
149	8/16/2018	11:10:50	0.023	0.023	0.024	0.025
150	8/16/2018	11:11:50	0.022	0.022	0.023	0.024
151	8/16/2018	11:12:50	0.023	0.023	0.024	0.025
152	8/16/2018	11:13:50	0.022	0.023	0.023	0.024
153	8/16/2018	11:14:50	0.022	0.022	0.023	0.023
154	8/16/2018	11:15:50	0.022	0.023	0.024	0.025
155	8/16/2018	11:16:50	0.022	0.023	0.023	0.024
156	8/16/2018	11:17:50	0.022	0.023	0.024	0.025
157	8/16/2018	11:18:50	0.025	0.025	0.026	0.028
158	8/16/2018	11:19:50	0.021	0.022	0.022	0.023
159	8/16/2018	11:20:50	0.022	0.023	0.023	0.024

160	8/16/2018	11:21:50	0.022	0.023	0.024	0.025
161	8/16/2018	11:22:50	0.021	0.022	0.022	0.023
162	8/16/2018	11:23:50	0.023	0.024	0.025	0.029
163	8/16/2018	11:24:50	0.026	0.026	0.028	0.036
164	8/16/2018	11:25:50	0.023	0.024	0.025	0.026
165	8/16/2018	11:26:50	0.023	0.024	0.025	0.026
166	8/16/2018	11:27:50	0.022	0.023	0.023	0.024
167	8/16/2018	11:28:50	0.023	0.024	0.024	0.026
168	8/16/2018	11:29:50	0.022	0.022	0.022	0.023
169	8/16/2018	11:30:50	0.025	0.026	0.028	0.031
170	8/16/2018	11:31:50	0.023	0.023	0.025	0.026
171	8/16/2018	11:32:50	0.022	0.022	0.023	0.024
172	8/16/2018	11:33:50	0.021	0.021	0.022	0.024
173	8/16/2018	11:34:50	0.02	0.021	0.021	0.022
174	8/16/2018	11:35:50	0.024	0.024	0.026	0.03
175	8/16/2018	11:36:50	0.019	0.019	0.02	0.021
176	8/16/2018	11:37:50	0.019	0.02	0.021	0.022
177	8/16/2018	11:38:50	0.021	0.022	0.024	0.026
178	8/16/2018	11:39:50	0.018	0.018	0.019	0.02
179	8/16/2018	11:40:50	0.018	0.018	0.019	0.02
180	8/16/2018	11:41:50	0.019	0.02	0.021	0.022
181	8/16/2018	11:42:50	0.022	0.023	0.025	0.03

182	8/16/2018	11:43:50	0.02	0.021	0.022	0.026
183	8/16/2018	11:44:50	0.019	0.019	0.02	0.021
184	8/16/2018	11:45:50	0.018	0.018	0.019	0.022
185	8/16/2018	11:46:50	0.018	0.018	0.019	0.021
186	8/16/2018	11:47:50	0.018	0.019	0.02	0.022
187	8/16/2018	11:48:50	0.02	0.021	0.022	0.029
188	8/16/2018	11:49:50	0.027	0.029	0.034	0.046
189	8/16/2018	11:50:50	0.022	0.023	0.026	0.034
190	8/16/2018	11:51:50	0.017	0.017	0.018	0.019
191	8/16/2018	11:52:50	0.017	0.018	0.019	0.021
192	8/16/2018	11:53:50	0.017	0.018	0.018	0.02
193	8/16/2018	11:54:50	0.022	0.024	0.025	0.03
194	8/16/2018	11:55:50	0.019	0.02	0.021	0.025
195	8/16/2018	11:56:50	0.021	0.021	0.023	0.027
196	8/16/2018	11:57:50	0.024	0.025	0.028	0.038
197	8/16/2018	11:58:50	0.017	0.017	0.018	0.019
198	8/16/2018	11:59:50	0.019	0.02	0.021	0.022
199	8/16/2018	12:00:50	0.02	0.021	0.022	0.025
200	8/16/2018	12:01:50	0.02	0.021	0.023	0.029
201	8/16/2018	12:02:50	0.02	0.021	0.022	0.023
202	8/16/2018	12:03:50	0.015	0.016	0.016	0.017
203	8/16/2018	12:04:50	0.017	0.017	0.018	0.02
204	8/16/2018	12:05:50	0.015	0.016	0.017	0.019

205	8/16/2018	12:06:50	0.018	0.019	0.02	0.026
206	8/16/2018	12:07:50	0.018	0.019	0.021	0.026
207	8/16/2018	12:08:50	0.016	0.017	0.018	0.02
208	8/16/2018	12:09:50	0.015	0.015	0.016	0.017
209	8/16/2018	12:10:50	0.015	0.016	0.017	0.018
210	8/16/2018	12:11:50	0.015	0.015	0.016	0.017
211	8/16/2018	12:12:50	0.021	0.022	0.024	0.027
212	8/16/2018	12:13:50	0.017	0.018	0.02	0.022
213	8/16/2018	12:14:50	0.021	0.022	0.024	0.028
214	8/16/2018	12:15:50	0.017	0.017	0.019	0.021
215	8/16/2018	12:16:50	0.019	0.019	0.021	0.023
216	8/16/2018	12:17:50	0.017	0.018	0.019	0.02
217	8/16/2018	12:18:50	0.016	0.016	0.018	0.02
218	8/16/2018	12:19:50	0.017	0.018	0.02	0.024
219	8/16/2018	12:20:50	0.026	0.027	0.029	0.034
220	8/16/2018	12:21:50	0.016	0.017	0.018	0.022
221	8/16/2018	12:22:50	0.016	0.017	0.018	0.019
222	8/16/2018	12:23:50	0.019	0.02	0.022	0.026
223	8/16/2018	12:24:50	0.015	0.016	0.017	0.018
224	8/16/2018	12:25:50	0.02	0.022	0.024	0.029
225	8/16/2018	12:26:50	0.016	0.017	0.018	0.02
226	8/16/2018	12:27:50	0.017	0.018	0.02	0.024

227	8/16/2018	12:28:50	0.015	0.015	0.016	0.018
228	8/16/2018	12:29:50	0.016	0.017	0.018	0.019
229	8/16/2018	12:30:50	0.014	0.015	0.015	0.016
230	8/16/2018	12:31:50	0.016	0.016	0.018	0.021
231	8/16/2018	12:32:50	0.015	0.015	0.016	0.018
232	8/16/2018	12:33:50	0.015	0.016	0.017	0.018
233	8/16/2018	12:34:50	0.021	0.022	0.025	0.037
234	8/16/2018	12:35:50	0.014	0.015	0.016	0.017
235	8/16/2018	12:36:50	0.02	0.021	0.024	0.031
236	8/16/2018	12:37:50	0.015	0.016	0.017	0.019
237	8/16/2018	12:38:50	0.014	0.015	0.016	0.017
238	8/16/2018	12:39:50	0.022	0.023	0.024	0.025
239	8/16/2018	12:40:50	0.02	0.021	0.022	0.025
240	8/16/2018	12:41:50	0.017	0.018	0.02	0.022
241	8/16/2018	12:42:50	0.019	0.02	0.021	0.026
242	8/16/2018	12:43:50	0.022	0.023	0.025	0.03
243	8/16/2018	12:44:50	0.019	0.02	0.022	0.024
244	8/16/2018	12:45:50	0.021	0.022	0.024	0.027
245	8/16/2018	12:46:50	0.015	0.016	0.017	0.019
246	8/16/2018	12:47:50	0.021	0.022	0.023	0.023
247	8/16/2018	12:48:50	0.019	0.02	0.021	0.026
248	8/16/2018	12:49:50	0.015	0.016	0.017	0.019
249	8/16/2018	12:50:50	0.016	0.017	0.018	0.019

250	8/16/2018	12:51:50	0.016	0.016	0.017	0.018
251	8/16/2018	12:52:50	0.017	0.017	0.018	0.019
252	8/16/2018	12:53:50	0.019	0.02	0.021	0.023
253	8/16/2018	12:54:50	0.018	0.019	0.021	0.027
254	8/16/2018	12:55:50	0.015	0.016	0.017	0.019
255	8/16/2018	12:56:50	0.014	0.015	0.016	0.017
256	8/16/2018	12:57:50	0.017	0.017	0.019	0.021
257	8/16/2018	12:58:50	0.023	0.024	0.027	0.036
258	8/16/2018	12:59:50	0.018	0.019	0.02	0.025
259	8/16/2018	13:00:50	0.017	0.018	0.019	0.021
260	8/16/2018	13:01:50	0.016	0.016	0.017	0.02
261	8/16/2018	13:02:50	0.016	0.017	0.018	0.02
262	8/16/2018	13:03:50	0.015	0.016	0.016	0.018
263	8/16/2018	13:04:50	0.014	0.014	0.015	0.016
264	8/16/2018	13:05:50	0.017	0.018	0.019	0.022
265	8/16/2018	13:06:50	0.016	0.017	0.018	0.019
266	8/16/2018	13:07:50	0.015	0.016	0.017	0.019
267	8/16/2018	13:08:50	0.019	0.019	0.021	0.023
268	8/16/2018	13:09:50	0.017	0.017	0.018	0.022
269	8/16/2018	13:10:50	0.031	0.033	0.038	0.065
270	8/16/2018	13:11:50	0.022	0.022	0.023	0.024
271	8/16/2018	13:12:50	0.019	0.02	0.021	0.026

272	8/16/2018	13:13:50	0.018	0.019	0.021	0.024
273	8/16/2018	13:14:50	0.023	0.025	0.028	0.04
274	8/16/2018	13:15:50	0.036	0.037	0.044	0.075
275	8/16/2018	13:16:50	0.026	0.027	0.031	0.049
276	8/16/2018	13:17:50	0.025	0.026	0.029	0.04
277	8/16/2018	13:18:50	0.046	0.049	0.06	0.115
278	8/16/2018	13:19:50	0.042	0.045	0.053	0.081
279	8/16/2018	13:20:50	0.038	0.041	0.05	0.09
280	8/16/2018	13:21:50	0.037	0.039	0.046	0.085
281	8/16/2018	13:22:50	0.018	0.019	0.021	0.026
282	8/16/2018	13:23:50	0.017	0.018	0.02	0.024
283	8/16/2018	13:24:50	0.019	0.02	0.022	0.03
284	8/16/2018	13:25:50	0.021	0.022	0.025	0.036
285	8/16/2018	13:26:50	0.031	0.033	0.039	0.068
286	8/16/2018	13:27:50	0.019	0.02	0.022	0.028
287	8/16/2018	13:28:50	0.024	0.026	0.029	0.042
288	8/16/2018	13:29:50	0.044	0.046	0.054	0.1
289	8/16/2018	13:30:50	0.026	0.028	0.031	0.052
290	8/16/2018	13:31:50	0.023	0.024	0.028	0.039
291	8/16/2018	13:32:50	0.018	0.019	0.02	0.024
292	8/16/2018	13:33:50	0.017	0.018	0.019	0.024
293	8/16/2018	13:34:50	0.017	0.018	0.02	0.025
294	8/16/2018	13:35:50	0.046	0.049	0.059	0.116

295	8/16/2018	13:36:50	0.036	0.038	0.044	0.077
296	8/16/2018	13:37:50	0.03	0.032	0.037	0.06
297	8/16/2018	13:38:50	0.016	0.017	0.018	0.019
298	8/16/2018	13:39:50	0.014	0.015	0.015	0.016
299	8/16/2018	13:40:50	0.016	0.017	0.018	0.021
300	8/16/2018	13:41:50	0.017	0.018	0.019	0.024
301	8/16/2018	13:42:50	0.037	0.04	0.048	0.071
302	8/16/2018	13:43:50	0.052	0.055	0.065	0.123
303	8/16/2018	13:44:50	0.024	0.026	0.029	0.045
304	8/16/2018	13:45:50	0.032	0.034	0.039	0.059
305	8/16/2018	13:46:50	0.03	0.032	0.037	0.063
306	8/16/2018	13:47:50	0.017	0.018	0.02	0.024
307	8/16/2018	13:48:50	0.02	0.021	0.022	0.031
308	8/16/2018	13:49:50	0.026	0.028	0.031	0.049
309	8/16/2018	13:50:50	0.019	0.02	0.022	0.026
310	8/16/2018	13:51:50	0.019	0.02	0.021	0.023
311	8/16/2018	13:52:50	0.037	0.039	0.045	0.076
312	8/16/2018	13:53:50	0.042	0.045	0.052	0.094
313	8/16/2018	13:54:50	0.023	0.024	0.026	0.032
314	8/16/2018	13:55:50	0.022	0.023	0.025	0.03
315	8/16/2018	13:56:50	0.024	0.025	0.027	0.034
316	8/16/2018	13:57:50	0.038	0.04	0.046	0.084

317	8/16/2018	13:58:50	0.045	0.048	0.056	0.1
318	8/16/2018	13:59:50	0.031	0.033	0.038	0.06
319	8/16/2018	14:00:50	0.02	0.021	0.022	0.026
320	8/16/2018	14:01:50	0.027	0.028	0.031	0.045
321	8/16/2018	14:02:50	0.028	0.03	0.033	0.041
322	8/16/2018	14:03:50	0.079	0.084	0.102	0.216
323	8/16/2018	14:04:50	0.02	0.021	0.022	0.026
324	8/16/2018	14:05:50	0.02	0.021	0.023	0.027
325	8/16/2018	14:06:50	0.022	0.023	0.025	0.03
326	8/16/2018	14:07:50	0.02	0.021	0.022	0.024
327	8/16/2018	14:08:50	0.033	0.035	0.04	0.072
328	8/16/2018	14:09:50	0.02	0.021	0.023	0.029
329	8/16/2018	14:10:50	0.024	0.025	0.027	0.032
330	8/16/2018	14:11:50	0.021	0.022	0.024	0.027
331	8/16/2018	14:12:50	0.018	0.019	0.02	0.022
332	8/16/2018	14:13:50	0.018	0.018	0.019	0.021
333	8/16/2018	14:14:50	0.027	0.029	0.032	0.049
334	8/16/2018	14:15:50	0.028	0.03	0.034	0.045
335	8/16/2018	14:16:50	0.027	0.028	0.031	0.04
336	8/16/2018	14:17:50	0.039	0.041	0.046	0.092
337	8/16/2018	14:18:50	0.02	0.021	0.022	0.025
338	8/16/2018	14:19:50	0.027	0.029	0.032	0.037
339	8/16/2018	14:20:50	0.025	0.026	0.029	0.034

340	8/16/2018	14:21:50	0.03	0.032	0.036	0.053
341	8/16/2018	14:22:50	0.056	0.06	0.074	0.122
342	8/16/2018	14:23:50	0.03	0.032	0.037	0.057
343	8/16/2018	14:24:50	0.028	0.03	0.033	0.042
344	8/16/2018	14:25:50	0.03	0.032	0.036	0.047
345	8/16/2018	14:26:50	0.02	0.021	0.022	0.025
346	8/16/2018	14:27:50	0.02	0.021	0.022	0.025
347	8/16/2018	14:28:50	0.019	0.02	0.021	0.023
348	8/16/2018	14:29:50	0.018	0.019	0.02	0.022
349	8/16/2018	14:30:50	0.022	0.023	0.025	0.026
350	8/16/2018	14:31:50	0.026	0.027	0.028	0.029
351	8/16/2018	14:32:50	0.023	0.024	0.025	0.027
352	8/16/2018	14:33:50	0.023	0.024	0.025	0.026
353	8/16/2018	14:34:50	0.023	0.024	0.025	0.027
354	8/16/2018	14:35:50	0.021	0.022	0.023	0.024
355	8/16/2018	14:36:50	0.026	0.027	0.03	0.035
356	8/16/2018	14:37:50	0.03	0.032	0.036	0.047
357	8/16/2018	14:38:50	0.018	0.019	0.021	0.023
358	8/16/2018	14:39:50	0.02	0.021	0.023	0.026
359	8/16/2018	14:40:50	0.02	0.022	0.024	0.026
360	8/16/2018	14:41:50	0.021	0.022	0.024	0.028
361	8/16/2018	14:42:50	0.022	0.023	0.026	0.034

362	8/16/2018	14:43:50	0.019	0.02	0.022	0.028
363	8/16/2018	14:44:50	0.018	0.019	0.021	0.027
364	8/16/2018	14:45:50	0.019	0.02	0.022	0.027
365	8/16/2018	14:46:50	0.02	0.022	0.024	0.029
366	8/16/2018	14:47:50	0.02	0.021	0.023	0.027
367	8/16/2018	14:48:50	0.026	0.027	0.03	0.036
368	8/16/2018	14:49:50	0.024	0.026	0.029	0.033
369	8/16/2018	14:50:50	0.021	0.022	0.025	0.029
370	8/16/2018	14:51:50	0.017	0.018	0.019	0.021
371	8/16/2018	14:52:50	0.016	0.016	0.017	0.018
372	8/16/2018	14:53:50	0.019	0.02	0.021	0.023
373	8/16/2018	14:54:50	0.02	0.021	0.023	0.025
374	8/16/2018	14:55:50	0.018	0.02	0.021	0.023
375	8/16/2018	14:56:50	0.016	0.017	0.018	0.018
376	8/16/2018	14:57:50	0.02	0.022	0.023	0.026
377	8/17/2018	6:51:42	0	0	0	0
378	8/17/2018	6:51:50	0.073	0.075	0.079	0.107

TOTAL mg/m^3
0.041

0.039

0.099

0.038

0.155

0.033

0.029

0.088

0.035

0.029

0.043

0.034

0.027

0.026

0.027

0.025

0.031

0.046

0.032

0.028

0.029

0.028

0.028

0.028

0.028

0.03

0.031

0.029

0.032

0.028

0.025

0.036

0.03

0.026

0.079

0.027

0.031

0.025

0.029

0.026

0.037

0.038

0.031

0.034

0.026

0.025

0.026

0.075

0.062

0.028

0.029

0.027

0.024

0.024

0.03

0.05

0.035

0.067

0.031

0.031

0.033

0.027

0.033

0.027

0.035

0.03

0.03

0.03

0.033

0.032

0.028

0.031

0.031

0.035

0.027

0.265

0.168

0.032

0.027

0.028

0.028

0.027

0.027

0.048

0.042

0.03

0.026

0.029

0.028

0.327

0.041

0.03

0.029

0.026

0.029

0.028

0.034

0.028

0.03

0.029

0.028

0.043

0.039

0.035

0.03

0.037

0.03

0.137

0.139

0.031

0.035

0.028

0.028

0.028

0.028

0.177

0.046

0.036

0.036

0.032

0.031

0.031

0.031

0.032

0.038

0.032

0.032

0.035

0.039

0.032

0.031

0.03

0.033

0.033

0.033

0.042

0.061

0.048

0.036

0.039

0.031

0.03

0.547

0.039

0.038

0.028

0.028

0.029

0.025

0.024

0.025

0.024

0.023

0.026

0.024

0.025

0.028

0.023

0.024

0.026

0.023

0.029

0.037

0.026

0.026

0.024

0.026

0.023

0.031

0.026

0.024

0.024

0.022

0.03

0.021

0.022

0.026

0.02

0.02

0.022

0.03

0.026

0.022

0.022

0.021

0.022

0.029

0.047

0.034

0.019

0.021

0.02

0.031

0.025

0.027

0.039

0.019

0.023

0.025

0.029

0.023

0.017

0.02

0.019

0.026

0.026

0.02

0.017

0.019

0.017

0.027

0.022

0.029

0.021

0.023

0.02

0.02

0.024

0.034

0.022

0.019

0.027

0.018

0.029

0.02

0.024

0.018

0.019

0.016

0.021

0.018

0.018

0.037

0.017

0.032

0.019

0.017

0.025

0.025

0.022

0.026

0.03

0.024

0.027

0.019

0.023

0.026

0.019

0.019

0.018

0.019

0.023

0.028

0.019

0.017

0.022

0.036

0.026

0.021

0.02

0.02

0.018

0.016

0.022

0.019

0.019

0.024

0.023

0.066

0.024

0.026

0.024

0.041

0.076

0.049

0.04

0.116

0.083

0.093

0.087

0.026

0.024

0.031

0.036

0.07

0.028

0.042

0.104

0.052

0.041

0.024

0.024

0.025

0.121

0.08

0.061

0.019

0.016

0.021

0.024

0.072

0.126

0.046

0.061

0.064

0.024

0.032

0.05

0.026

0.023

0.077

0.097

0.032

0.03

0.035

0.085

0.104

0.061

0.026

0.046

0.041

0.224

0.026

0.028

0.03

0.025

0.073

0.03

0.032

0.027

0.022

0.021

0.052

0.046

0.042

0.096

0.025

0.037

0.034

0.055

0.123

0.058

0.043

0.047

0.025

0.025

0.023

0.022

0.026

0.029

0.027

0.026

0.027

0.024

0.035

0.047

0.023

0.026

0.026

0.028

0.034

0.028

0.027

0.027

0.029

0.027

0.036

0.033

0.029

0.021

0.018

0.023

0.025

0.023

0.018

0.026

0

0.148