BIENNIAL 2019 – AIR & WIPE SAMPLING

Point Dume Elementary School
Building B
6955 Fernhill Drive
Malibu, California 90265

Prepared for:

Santa Monica-Malibu Unified School District
Facilities Improvements Projects
2828 4th Street
Santa Monica, California 90405

Project No.: SMSD-18-8201
Reported Date: August 23, 2019

Alta Environmental
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
T (562) 495 5777 F (562) 495 5877
Toll-free (US only) 800 777-0605 altaenviron.com

EXECUTIVE SUMMARY

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing the 2019 biennial sampling activities completed for Point Dume Elementary School campus, located at 6955 Fernhill Drive, Malibu, California 90265. The sampling activities were conducted to investigate the potential presence of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within Building B, Room 142.

Concentrations of PCBs were not detected above laboratory reporting limits in any of the air and wipe samples collected during the 2019 biennial sampling event. Based on this information, no significant concentrations of PCBs were detected in the air and surface wipe samples collected and analyzed during the 2019 biennial sampling event.

CONTENTS

REPORTED: August 23, 2019 **PROJECT NO.:** SMSD-19-8831

CLIENT: Santa Monica-Malibu Unified School District
Facility Improvements Projects
2828 4th Street
Santa Monica, California 90405

ATTENTION: Mr. Carey Upton

REF: Biennial PCB Sampling Report
Point Dume Elementary School
6955 Fernhill Drive
Malibu, CA, 90265

1 PROJECT BACKGROUND

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental (Alta) to conduct biennial air and wipe sampling services Point Dume Elementary School, located at 6955 Fernhill Drive, Malibu, CA 90265. This report presents the findings of our 2019 biennial sampling event.

2 PURPOSE OF INSPECTION AND SAMPLING

The objective of the quarterly sampling program is to monitor concentration trends of detectable polychlorinated biphenyl (PCB) compounds in ambient air and on non-porous surfaces, if any, within Building B room 142.

3 SCOPE OF SERVICES

During the course of our investigation, NV5 collected a total of 2 air samples (including 1 ambient background samples) and a total of 2 wipe samples.

4 METHODOLOGY

During this sampling event, NV5 conducted air and wipe sampling within Point Dume Elementary School Building B (1 location). Figures depicting the sample locations are presented in Appendix A.

4.1 Air Sampling

Each air sample was collected utilizing a calibrated pump to draw air through laboratory supplied polyurethane foam cartridges at a flow rate of approximately 5 liters per minute, for approximately 24 hours. The air samples were collected at breathing zone height, without the use of pre-filters. Following collection, each sample was properly packaged, labeled, and recorded on a chain-of-custody for transported to ALS Environmental in Salt Lake City, Utah. Samples were analyzed for PCBs using EPA Method TO-10A.

4.2 Wipe Sampling

Each wipe sample was collected on laboratory supplied gauze pads (or similar sampling media) in general accordance with the *Standard Wipe Test* procedure described in 40 CFR 761.123. Following collection,

each sample was properly packaged, labeled, and recorded on a chain-of-custody for transport to Enviro-Chem, Inc. All samples were prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and were analyzed for PCBs using EPA Method 8082A.

5 RESULTS

5.1 Air Sampling

Based on the reported laboratory results, concentrations of PCBs were not detected in any of the analyzed air samples.

For reference, the following table presents USEPA's exposure levels for evaluating PCB concentrations in indoor air at school sites:

Age in Years Range	1 to <2	2 to <3	3 to <6	6 to <12	12 to <15	15 to <19	19 +
PCBs ng/m^3	100	100	200	300	500	600	500

5.2 Wipe Sampling

Based on the reported laboratory results, concentrations of PCBs were not detected in any of the analyzed wipe samples. All sample results were reported below the EPA Region XI health-based benchmark of 1µg/100cm^2.

6 QUALITY CONTROL

Quality control (QC) field-blank samples were collected during this investigation as methods to evaluate sampling and analytical precision. Alta collected one ambient background air sample and one field-blank wipe sample during the course of this investigation. Laboratory results of the two QC samples were reported within acceptable limits.

Laboratory analysis of the air samples was completed by ALS Environmental, located at 960 West Le Voy Drive in Salt Lake City, Utah. ALS Environmental is accredited by the AIHA Laboratory Accreditation Program and the National Environmental Laboratory Accreditation Conference. Laboratory analysis of the wipe samples was completed by Enviro-Chem, Inc., located at 1214 East Lexington Avenue in Pomona, California. Enviro-Chem, Inc. is accredited by the California Environmental Laboratory Accreditation Program. Based on a review of the laboratory quality control data associated with the sample analysis, the recovery and precision are within the acceptable limits of the laboratory.

7 CONCLUSIONS

Based on this information, no significant concentrations of PCBs were detected in the air and surface wipe samples collected and analyzed during the 2019 biennial sampling event.

8 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by the District and may not be relied upon by any other person or entity without Alta's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgment and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, Alta has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

Alta Environmental' s investigation and the conclusions and recommendations generated as a result reflect a subjective evaluation of limited data and thus may not be representative of all conditions present at the site. If you have any questions, please feel free to call the undersigned at (562) 495-5777.

9 SIGNATORY

Respectfully submitted by:

Alta Environmental

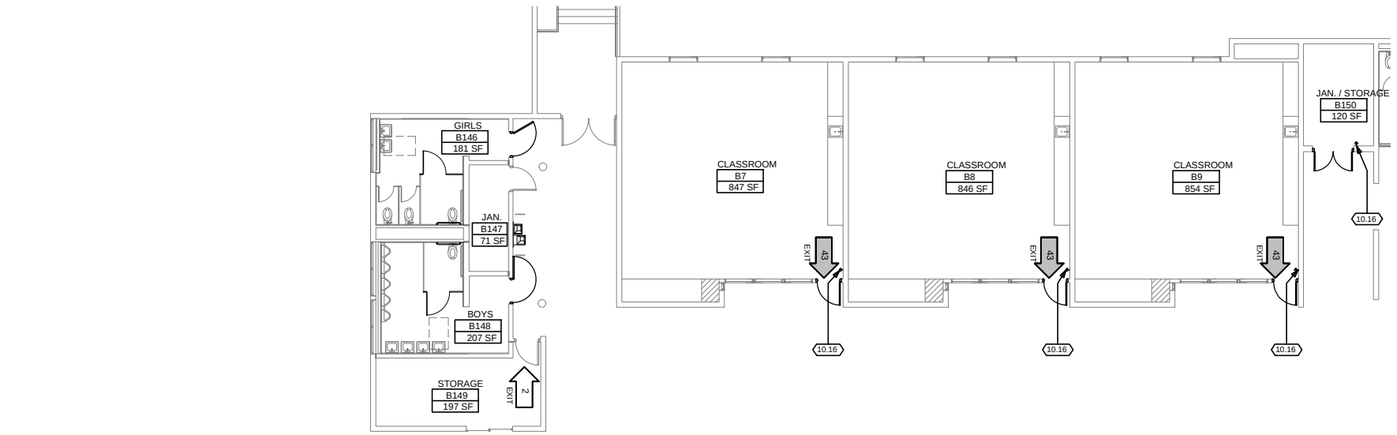
Therese Rizarri
Specialist I

Reviewed:

Alta Environmental

Jonathan Barkman
Project Manager

Appendix A
Figures

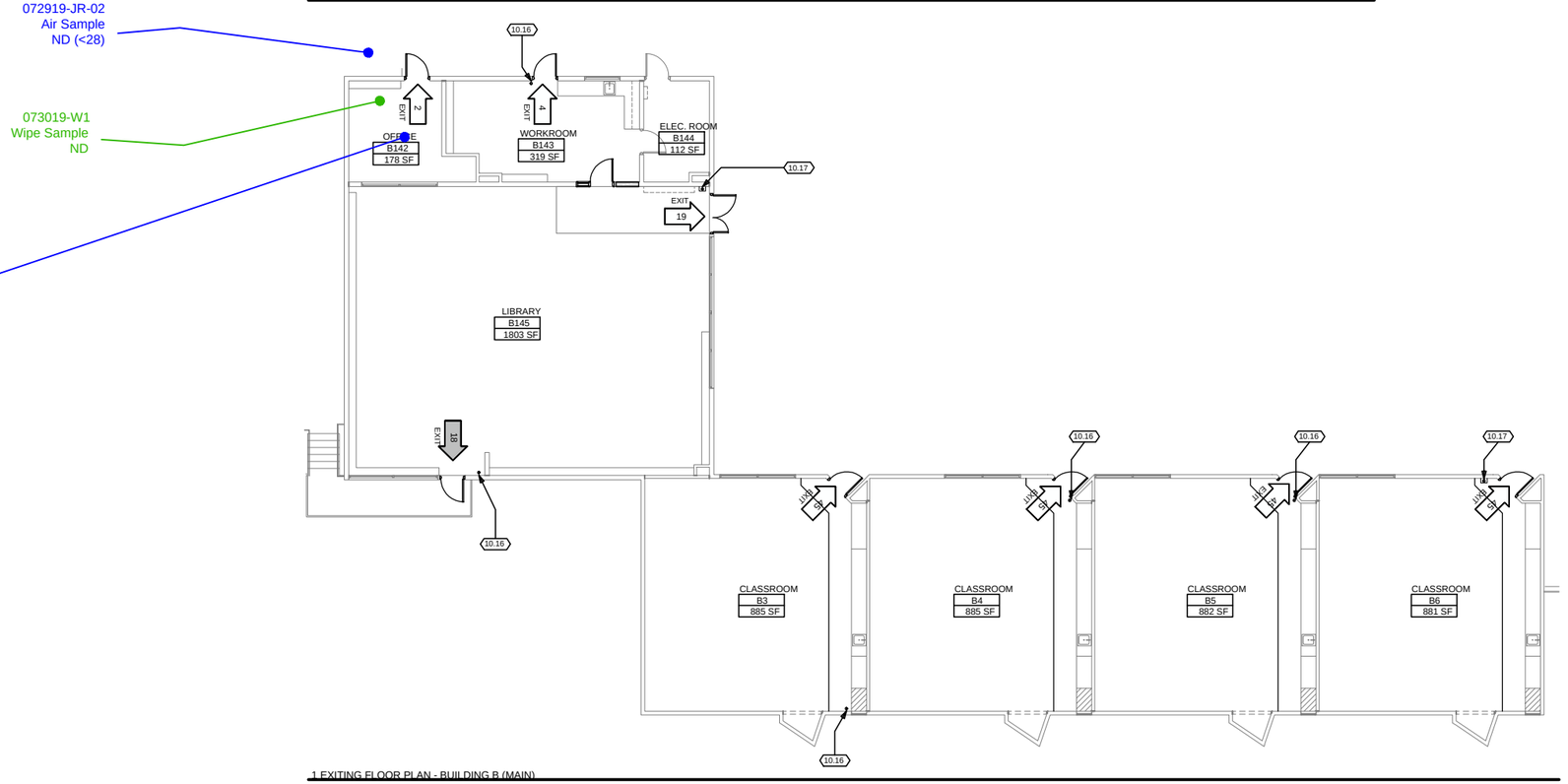


2 EXITING FLOOR PLAN - BUILDING B (LOWER)

072919-JR-02
Air Sample
ND (<28)

073019-W1
Wipe Sample
ND

072919-JR-01
Air Sample
ND (<28)



1 EXITING FLOOR PLAN - BUILDING B (MAIN)

Note: Locations are approximate

LEGEND

- Wipe Sample
- Air Sample

PCB Wipe and Air Sample Location Map - Building B

Point Dume Elementary School
6955 Fern Hill Drive
Malibu, California

3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
P: (562) 495-5777 ◆ F: (562) 495-5877 ◆ www.altaenviron.com

Date: August 2019 | Project No.: SMSD-19-8831

Appendix B
Sample Inventories

CLIENT: SMMUSD
PROJECT SMSD-19-8831
PROJECT: Point Dume Elementary School PCB Sampling - Biennial Event 2019
Date: July 29 - 30, 2019

Building	Room Placard ID	Room Description	Sampling Date[a]	Sample ID	Total PCBs (ng/m^3)
B	B142	B142	7/29/2019	072919-JR-01	ND
Ambient	N/A	N/A	7/29/2019	072919-JR-02	ND

Notes:
[a] Air samples were collected over a 24-hour period with the lights on, windows and door closed, and ventilation off. Start date given.

Abbreviations:
ng/m^3 = nanograms per cubic meter
ND = compound was analyzed for but not detected above the laboratory reporting limit
NA = Not Applicable

CLIENT: SMMUSD
PROJECT NO: SMSD-19-8831
PROJECT: Point Dume Elementary School PCB Sampling - Biennial Event 2019
Date: July 29 - 30, 2019

Building	Floor Plan ID	Component Description	Sampling Date	Sample ID	Total PCBs (µg/100cm^2)
B	B142	Floor	7/30/2019	073019-W1	ND
B	Blank		7/30/2019	073019-W2	ND

Notes:

µg/100cm^2 = microgram per 100 square centimeters
PCB = polychlorinated biphenyl
J = A"J-flag" designation indicates that the reported concentration was detected above the method detection limit, but below the laboratory's practical quantitative limit

Appendix C
Laboratory Reports

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: August 7, 2019

Mr. Jonathan Barkman
Alta Environmental
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Tel:(562)495-5777 E-Mail: Jonathan.Barkman@Altaenviron.com

Project: **Point Dume ES**
Lab I.D.: **190801-52, -53**

Dear Mr. Barkman:

The **analytical results** for the wipe samples, received by our laboratory on August 1, 2019, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

Enviro – Chem, Inc.
1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: Jonathan.Barkman@Altaenviron.com

PROJECT: **Point Dume ES**
DATE SAMPLED: 07/30/19
MATRIX: SOLID(WIPE)
REPORT TO: MR. JONATHAN BARKMAN

DATE RECEIVED: 08/01/19
DATE EXTRACTED: 08/02-03/19
DATE ANALYZED: 08/05/19
DATE REPORTED: 08/07/19

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNITS: uG/100CM^2 = MICROGRAM PER 100 SQUARE CENTIMETERS

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
073019-W1	190801-52	ND	ND	ND	ND	ND	ND	ND	ND	1
073019-W2	190801-53	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909)590-5905 Fax (909)590-5907

EPA 8082 QA/QC Report

Matrix: **Wipe** Date Analyzed: **8/5/2019**

Unit: ug / 100 cm^2

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 190805-LCS3/4

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	20.0	20.9	**105%**	19.7	**99%**	**6%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	20.0	18.7	**94%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190801-52	190801-53	190801-54	190801-55	190801-56	190801-57
Tetra-chloro-meta-xylene	50-150	98%	111%	107%	109%	112%	100%	92%
Decachlorobipneyl	50-150	87%	86%	77%	79%	77%	84%	82%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190801-58	190801-59	190801-60	190801-61	190801-62	190801-63	190801-64	190801-65
Tetra-chloro-meta-xylene	107%	94%	92%	107%	93%	96%	103%	87%
Decachlorobipneyl	79%	81%	79%	75%	81%	85%	86%	83%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190801-66	190801-67	190801-68	190801-69	190801-70	190801-71
Tetra-chloro-meta-xylene	117%	91%	100%	105%	93%	99%
Decachlorobipneyl	71%	83%	71%	74%	82%	76%

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

** = Surrogate fail due to matrix interference (If Marked)*

Note: *LCS, MS, MSD are in control therefore results are in control.*

Analyzed and Reviewed By: AY

Final Reviewer: _____

Enviro-Chem, Inc. Laboratories
1214 E. Lexington Avenue,
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082	Misc./PO#
073019-W1	19080[-]2	7/30/19	10:25	wipe	1		ICE	X	SOXHLET
073019-W2	↓ -3	7/30/19	10:25	wipe	1		ICE	X	Field Blank
					20 ppb				

Analysis Required

COMMENTS

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd, Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Jonathan.Barkman@altaenviron.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID: Point Dume ES

Relinquished by: 8/1/19 1541	Received by:	Date & Time: 8/1/19 1620
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 8/1/19

WHITE WITH SAMPLE • YELLOW TO CLIENT

ANALYTICAL REPORT

Report Date: August 12, 2019

Jonathan Barkman
ALTA Environmental
3777 Long Beach Blvd.
Long Beach, CA 90807

Phone: (562) 495-5777

E-mail: jonathan.barkman@altaenviron.com

Workorder: **34-1921821**
Project ID: Pointe Dume ES
Purchase Order: SMSD-19-8831
Project Manager Paul E. Pope

Client Sample ID	Lab ID	Collect Date	Receive Date	Sampling Site
072919-JR-01	1921821001	07/29/19	08/01/19	Pointe Dume ES
072919-JR-02	1921821002	07/29/19	08/01/19	Pointe Dume ES

ANALYTICAL REPORT

Workorder: 34-1921821
Client: ALTA Environmental
Project Manager: Paul E. Pope

Analytical Results

Sample ID: **072919-JR-01** | Sampling Site: Pointe Dume ES | Collected: 07/29/2019
Lab ID: 1921821001 | Media: PUF Tube | Received: 08/01/2019
Matrix: Air | Sampling Parameter: Air Volume 7242.34 L

Analysis Method - EPA TO-10A, PCBs

Preparation:	EPA 3540 Soxhlet Ext., EPA TO-10A	**Weight/Volume**	**Analysis:**	EPA TO-10A, PCBs Air	**Instrument ID:** GCE03
Batch:	ENVX/29133 (HBN: 245071)	**Initial:** 1 filter	**Batch:**	EGC/7889 (HBN: 245218)	**Percent Solid:** NA
Prepared:	08/06/2019	**Final:** 10 mL	**Analyzed:**	08/07/2019 00:00	**Report Basis:** Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	<28	200	1	
Aroclor 1232	ND	<14	100	1	
Aroclor 1016	ND	<14	100	1	
Aroclor 1242	ND	<14	100	1	
Aroclor 1248	ND	<14	100	1	
Aroclor 1254	ND	<14	100	1	
Aroclor 1260	ND	<14	100	1	
Aroclor 1262	ND	<14	100	1	
Aroclor 1268	ND	<14	100	1	

Sample ID: **072919-JR-02** | Sampling Site: Pointe Dume ES | Collected: 07/29/2019
Lab ID: 1921821002 | Media: PUF Tube | Received: 08/01/2019
Matrix: Air | Sampling Parameter: NA

Analysis Method - EPA TO-10A, PCBs

Preparation:	EPA 3540 Soxhlet Ext., EPA TO-10A	**Weight/Volume**	**Analysis:**	EPA TO-10A, PCBs Air	**Instrument ID:** GCE03
Batch:	ENVX/29133 (HBN: 245071)	**Initial:** 1 filter	**Batch:**	EGC/7889 (HBN: 245218)	**Percent Solid:** NA
Prepared:	08/06/2019	**Final:** 10 mL	**Analyzed:**	08/07/2019 00:00	**Report Basis:** Wet

Analyte	Result (ng/sample)	Result (ng/m³)	RL (ng/sample)	Dilution	Qual
Aroclor 1221	ND	NA	200	1	
Aroclor 1232	ND	NA	100	1	
Aroclor 1016	ND	NA	100	1	
Aroclor 1242	ND	NA	100	1	
Aroclor 1248	ND	NA	100	1	
Aroclor 1254	ND	NA	100	1	
Aroclor 1260	ND	NA	100	1	
Aroclor 1262	ND	NA	100	1	
Aroclor 1268	ND	NA	100	1	

Report Authorization (/S/ is an electronic signature that complies with 21 CFR Part 11)

Method	Analyst	Peer Review
EPA TO-10A, PCBs	/S/ Mila V. Potekhin 08/08/2019 12:47	/S/ Matthew Roberts 08/12/2019 08:01

ANALYTICAL REPORT

Workorder: 34-1921821
Client: ALTA Environmental
Project Manager: Paul E. Pope

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	PJLA (DoD ELAP)	L17-506	http://www.pjlabs.com
	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com
	Utah (TNI)	UT00953	http://lams.nelac-institute.org/search
	Nevada (TNI)	UT00953201-1	https://ndep.nv.gov/water/lab-certification
	Iowa (TNI)	IA# 376	http://www.shl.uiowa.edu/labcert/idnr/
	Kansas	E-10416	http://www.kdheks.gov/envlab/disclaimer.html
	Oklahoma (TNI)	IJ# 9980	http://www.deq.state.ok.us/CSDnew/labcert.htm
	Texas (TNI)	T104704456-18-9	https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/txnelap_lab_list.pdf
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP)	101574	http://www.aihaaccreditedlabs.org
	DOECAP-AP	L18-606	http://www.pjlabs.com
	Washington	C596	https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Laboratory-Accreditation
Dietary Supplements	PJLA (ISO 17025)	L17-507-R1	http://www.pjlabs.com

ANALYTICAL REPORT

Workorder: 34-1921821
Client: ALTA Environmental
Project Manager: Paul E. Pope

Result Symbol Definitions

MDL = Method Detection Limit, a statistical estimate of method/media/instrument sensitivity.
RL = Reporting Limit, a verified value of method/media/instrument sensitivity.
CRDL = Contract Required Detection Limit
Reg. Limit = Regulatory Limit.
ND = Not Detected, testing result not detected above the MDL or RL.
< Means this testing result is less than the numerical value.
** No result could be reported, see sample comments for details.

Qualifier Symbol Definitions

U = Qualifier indicates that the analyte was not detected above the MDL.
J = Qualifier Indicates that the analyte value is between the MDL and the RL. It is also used to indicate an estimated value for tentatively identified compounds in mass spectrometry where a 1:1 response is assumed.
B = Qualifier indicates that the analyte was detected in the blank.
E = Qualifier indicates that the analyte result exceeds calibration range.
P = Qualifier indicates that the RPD between the two columns is greater than 40%.