



PCB SOURCE SAMPLING REPORT REMAINING DOOR & WINDOW FEATURES

Malibu High School

Buildings D, F, G, H, and J
30215 Morning View 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-18-8202

Reported Date: February 28, 2019 (Revised March 3, 2019)

Alta Environmental

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EXECUTIVE SUMMARY

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing polychlorinated biphenyl (PCB) bulk sampling activities completed for accessible suspect flooring materials within Malibu High School Buildings D, F, G, H and J, located at 30215 Morning View Drive, Malibu, California 90403. The sampling activities were conducted to investigate the potential presence of PCBs in flooring material and to characterize the materials for off-site waste disposal.

Based on the findings of our investigation and in consultation with the District, the sampled building materials should be characterized for disposal as follows:

<u>Building Material</u>	<u>Waste Category</u>
Building G – Interior Door Caulking Rm 505A Rm 505C Rm 506A Rm 506B Rm 506C Rm 506D Rm 506E	PCB Bulk Product Waste
Building J – Door Caulking Rm 723, Exterior East Rm 705, Interior West	PCB Bulk Product Waste
All Other Materials Sampled	Excluded PCB Product

Removal of material characterized as PCB Bulk Product Waste should be conducted using proper engineering controls including, but not limited to, containment, worker training and worker protection. PCB waste should be characterized, packaged, labelled and disposed as required by the Toxic Substances Control Act (TSCA) 40 CFR 762 and California hazardous waste regulation set forth in Title 22, Division 4.5 of the California Code of Regulations

Material characterized as Excluded PCB Product is not regulated by the U.S. Environmental Protection Agency under TSCA.

Asbestos-containing material (ACM) and lead-based paint (LBP) have previously been identified at the site and are described in a separate report. Removal of ACMs and LBP is subject to local, state and federal requirements. A survey record and abatement plan have been prepared for this site which is to be used for the removal and waste disposal of ACM and LBP.

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REPORTED: February 28, 2019

PROJECT NO.: SMSD-18-8202

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

ATTENTION: Mr. Carey Upton

REF: PCB Source Sampling Report
Remaining Doors and Windows
Buildings D, F, G, H, I and J
Malibu High School
30215 Morning View Drive
Malibu, California 90403

1 INTRODUCTION/BACKGROUND

The United States Environmental Protection Agency (USEPA) believes that there was a potentially widespread use of polychlorinated biphenyl (PCB) containing building materials in schools and other buildings built or renovated between 1950 and 1979. Historically, PCBs were used as a primary source as a plasticizing agent in caulking and glazing materials, as additives to paints and floor finishes, as a sealant for heating systems and plumbing, and as insulators in ballasts and other electrical equipment. The manufacture and use of PCBs were banned in the United States in 1976 and PCB compounds were phased out between 1978 and 1979.

Additionally, PCBs in manufactured materials may move directly into adjoining materials, particularly porous materials such as wood, concrete, and other types of masonry. In schools with manufactured PCB sources, many types of building materials adjoining PCB sources have been documented as containing measurable levels of PCBs and are, therefore, considered potential secondary PCB sources.

Alta Environmental (Alta) was retained by the Santa Monica Malibu School District (District) to investigate the potential presence of PCB-impacted building materials within Buildings D, F, G, H, and J at the Malibu High School campus (Alta proposal dated, December 20, 2018).

2 PURPOSE OF INSPECTION AND SAMPLING

Building materials included in this report (select door and window caulking not previously sampled) were evaluated for PCBs only. A survey of asbestos-containing materials (ACM) and lead-based paint (LBP) has been completed for these buildings, and the results and findings are discussed in a separate document.

The objective of the sampling was to obtain samples from a sufficient number of locations to:

- Serve as a representative indication of the variety of potentially PCB-impacted materials
- Draw conclusions regarding the potential presence of PCB-impacted materials
- Categorize each type of sampled building material for off-site disposal related solely to its PCB content. In general, PCB-impacted materials can be sorted and classified into the following categories:
 - PCB Bulk Product Waste (PCB concentration ≥ 50 ppm). According to the USEPA Memorandum, "PCB Bulk Product Waste Reinterpretation," dated October 24, 2012,

building materials “coated or serviced” with PCB bulk product waste (e.g., caulk, paint, mastic, sealants) at the time of designation for disposal are to be managed as a PCB bulk product waste. The reinterpretation document allows for disposal of both PCB Bulk Product Waste and PCB Remediation Waste together as a single waste stream (PCB Bulk Product Waste).

- Excluded PCB Product (PCB concentration <50 ppm).
- Determine if a site-specific remediation work plan is required to address materials with PCB concentrations ≥ 50 parts per million (ppm) prior to undertaking the demolition and disposal of building materials

3 SCOPE OF SERVICES

Alta collected a total of 31 bulk samples of select window and door caulking at Malibu High School Buildings D, F, G, H, and J. The sampling was completed on January 7, 2019, in accordance with the USEPA Region I *Standard Operation Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyl* dated May 2011 and with our District-approved proposal dated December 20, 2018.

4 METHODOLOGY

Alta’s source bulk sampling was completed as follows:

- A one-inch drill bit, screwdriver, razor blade, chisel, or similar tool was used to collect the samples.
- A polyethylene drop-sheet was placed below the impacted area to capture any dust and debris which may have dislodged during the sample collection.
- Samples were labelled, packaged, and documented on a chain of custody for shipping to the laboratory.
- Samples were shipped to the laboratory in a chilled ice chest.
- Sampled areas were patched using a non-PCB sealant. It should be noted that the patch is temporary and only intended to provide a barrier to the exposed sampled substrates.
- Each sample location was documented using digital photographs.
- Prior to use, reusable sampling was decontaminated using a two-step decontamination process consisting of an initial wash with a phosphate-free cleaning solution, followed by a rinse with de-ionized water. After the two-step decontamination procedures, the equipment was placed on top of clean paper towels (or equivalent material) and set to dry individually. Each piece of equipment was inspected by Alta for evidence of residual dust and debris.

All samples collected during this investigation, including duplicate and split duplicates, were placed in an appropriate glass jar with a Teflon lined cap provided by the laboratory. Samples were labeled and packaged in a cooler and kept cool with ice during shipment.

The detection limit (DL) used by the laboratory for this project was 0.5 ppm. In some cases, the DL was raised above 0.5 ppm due to matrix interferences. In all cases, the DL did not meet or exceed the USEPA defined screening-level for PCB Bulk Product Waste.

All samples prepared by the laboratory using EPA Method 3540 for Soxhlet extraction and were analyzed for PCBs using EPA Method 8082A.

5 RESULTS

A total of 31 source samples were collected during this investigation. The information included in Table 1.0 is a summary of the samples with reported total PCB concentrations above the waste characterization

screening level and is intended to be used in conjunction with the material inventories included in Appendix A and the laboratory results included in Appendix B

Table 1.0 – Summary of Detected PCB Concentrations ≥ 50 PPM

<u>Material Location</u>	<u>Sample Description</u>	<u>Sample Numbers</u>	<u>Total PCBs (PPM)</u>
Building G	Door caulking, interior	010719-JR03G 010719-JR05G 010719-JR06G 010719-JR07G 010719-JR08G 010719-JR09G 010719-JR10G	246,000 231,000 22,300 4,940 99.5 79.5 6,790
Building J	Window Caulking	010719-JR03J 010719-JR11J	91,5000 83,000

6 QUALITY CONTROL

Sample extraction and analysis was completed by Enviro-Chem, located at 1214 East Lexington Avenue, Pomona, California. Enviro-Chem is a laboratory accredited by the California State Environmental Laboratory Accreditation Program. Based on our review of the quality control data included with the laboratory reports, the recovery and precision are within the acceptable limits of the laboratory.

7 CONCLUSIONS

Based on the findings of our investigation and in consultation with the District, the sampled building materials should be characterized for disposal as follows:

<u>Building Material</u>	<u>Waste Category</u>
Building G – Interior Door Caulking Rm 505A Rm 505C Rm 506A Rm 506B Rm 506C Rm 506D Rm 506E	PCB Bulk Product Waste
Building J – Window Caulking Rm 723, Exterior East Rm 705, Interior West	PCB Bulk Product Waste
All Other Materials Sampled	Excluded PCB Product

Material characterized as *Excluded PCB Product* is not regulated by the U.S. Environmental Protection Agency under TSCA.

8 RECOMMENDATIONS

Removal and offsite disposal of identified *PCB Bulk Product Waste* material and surrounding porous materials should be conducted using proper engineering controls including, but not limited to containment, worker training, worker protection. Generated PCB waste should be characterized, packaged, labelled and disposed offsite in accordance with TSCA 40 CFR 761 and California hazardous waste regulations set forth in Title 22, Division 4.5 of the California Code of Regulations.

A site-specific work plan for the removal of identified *PCB Bulk Product Waste* should be prepared by the abatement contractor, reviewed and approved by the District prior to the start of any removal action.

Asbestos-containing material (ACM) and lead-based paint (LBP) have previously been identified at the site and are described in a separate report. Removal of ACM and LBP is subject to local, state and federal requirements. A survey record and abatement plan have been prepared for this site which is to be used for the removal and waste disposal of ACM and LBP.

9 ASSUMPTIONS AND LIMITATIONS

The findings, conclusions and recommendations contained herein are intended for use by the District and its contractors for the purpose of characterizing generated building material waste for offsite disposal.

This report was prepared exclusively for use by Santa Monica-Malibu Unified School District and may not be relied upon by any other person or entity without Alta Environmental'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 Environmental cannot be responsible for the impact of any changes in environmental standards, practices or regulations after the performance of services.

In performing our professional services, we have applied 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 Environmental 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 Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta Environmental will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta Environmental 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.

Material quantities are in some cases listed within this document. These quantities are not intended to be used for removal bidding purposes. Nor is this document intended as a contract manual. Work methods and sequence, coordination of participants, applicable codes, engineering controls, required submittals, and notifications should in all cases be addressed in a separate and independent bidding and contract document. If you have any questions, please do not hesitate to contact the undersigned at (562) 495-5777. We appreciate the opportunity to be of service to Santa Monica-Malibu Unified School District.

10 SIGNATORY

Respectfully submitted by:

Alta Environmental



Jonathan Barkman
Project Manager

Respectfully submitted by:

Alta Environmental



David Schack
VP, Building Sciences

Appendix A

Sample Inventories

Summary of Source
Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8202
PROJECT: Malibu Building D -Remaining Unsampld PCB Bulk Source Sampling
Date: January 7, 2019

Building Name	Sample Number	Sample Description	Sample Location	Total PCBs (ppm)
D	010719-JR01	Caulking	Room D117; exterior door	1.41
D	010719-JR02	Stucco	Room D118; interior door*	1.49
D	010719-JR03	Stucco	Room D102A; interior door*	2.04
D	010719-JR04	Stucco	Room D101B; exterior door	1.72
D	010719-JR05	Stucco	Room D106A; interior door	0.260
D	010719-JR06	Stucco	Room D122 (stairwall); exterior door	9.77

* = Little to no caulking material observed

Summary of Delineation Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8202
PROJECT: Malibu Building F -Remaining Unsampled PCB Bulk Source Sampling
Date: January 7, 2019

Building Name	Sample Number	Sample Description	Sample Location	Total PCBs (ppm)
F	010719-JR01F	Door Caulking	Room 301A; interior door	Non-Detected

Summary of Delineation Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8202
PROJECT: Malibu Building G -Remaining Unsampld PCB Bulk Source Sampling
Date: January 7, 2019

Building Name	Sample Number	Sample Description	Sample Location	Total PCBs (ppm)
G	010719-JR01G	Door caulking	Room 504; interior door	0.638
G	010719-JR02G	Door caulking	Room 504B; interior door	5.38
G	010719-JR03G	Door caulking	Room 505C; interior door	246,000
G	010719-JR04G	Door caulking	Room 505B; interior door	13.5
G	010719-JR05G	Door caulking	Room 505A; interior door	231,000
G	010719-JR06G	Door caulking	Room 506A; interior door	22,300
G	010719-JR07G	Door caulking	Room 506B; interior door	4,940
G	010719-JR08G	Door caulking	Room 506C; interior door	99.5
G	010719-JR09G	Door caulking	Room 506D; interior door	79.5
G	010719-JR10G	Door caulking	Room 506E; interior door*	6,790

* = New caulking over old

Summary of Delineation Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8202
PROJECT: Malibu Building H -Remaining Unsampld PCB Bulk Source Sampling
Date: January 7, 2019

Building Name	Sample Number	Sample Description	Sample Location	Total PCBs (ppm)
H	010719-JR01H	Door Caulking	Room 607; exterior door	13.3

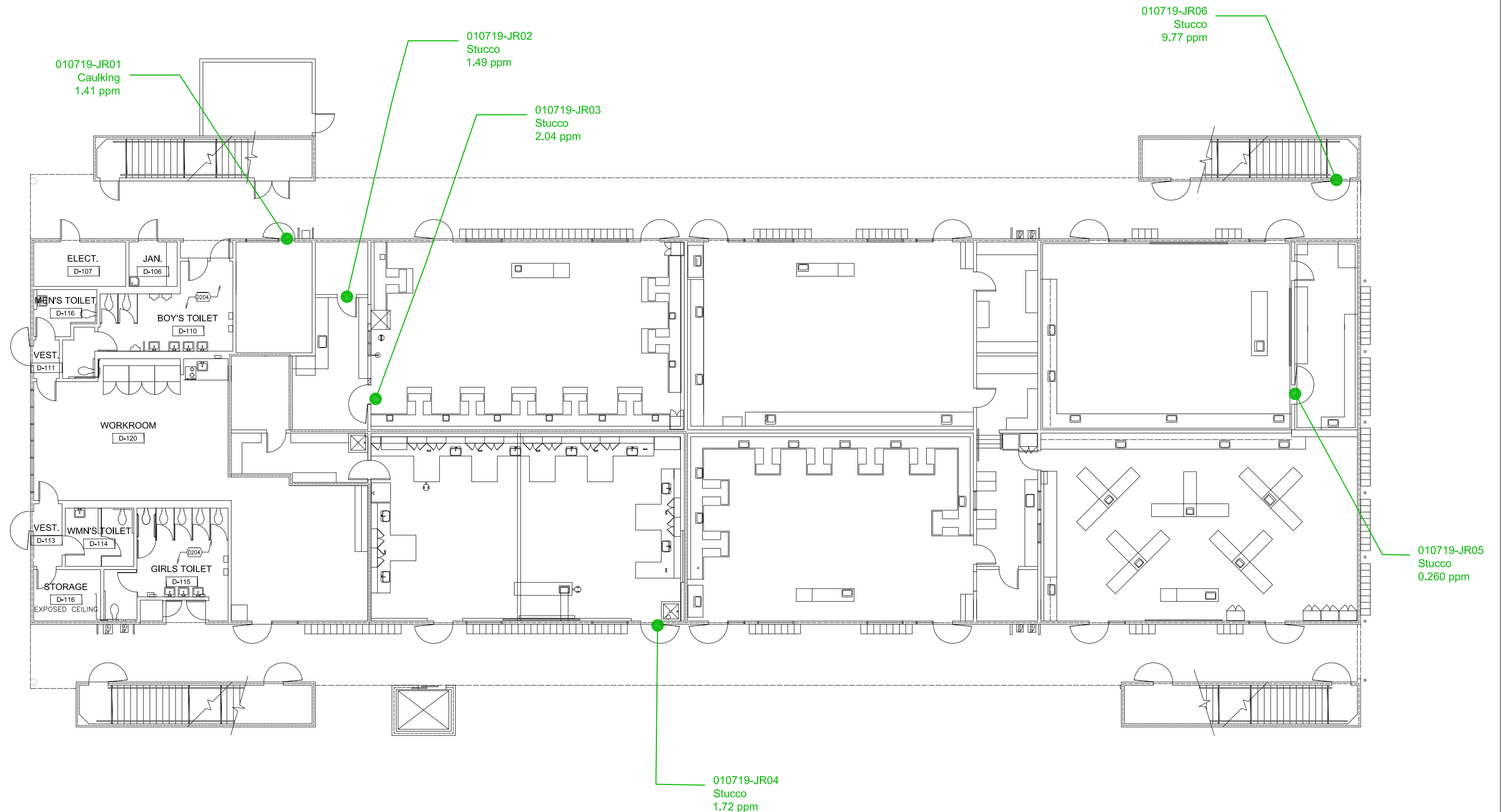
Summary of Source Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-18-8202
PROJECT: Malibu Building J -Remaining Unsampld PCB Bulk Source Sampling
Date: January 7, 2019

Building Name	Sample Number	Sample Description	Sample Location	Total PCBs (ppm)
J	010719-JR01J	Window caulking	Room 723; exterior window; east window	35.3
J	010719-JR02J	Window caulking	Room 723; exterior window; south window	1.06
J	010719-JR03J	Window caulking	Room 722; exterior window; east window	91,500
J	010719-JR04J	Window caulking	Room 722; interior window; west window	2.63
J	010719-JR05J	Door caulking	Room 718; interior door	1.57
J	010719-JR06J	Door caulking	Room 701; interior door; east door	1.07
J	010719-JR07J	Window caulking	Room 707B; interior window	2.54
J	010719-JR07JD	Window caulking	Room 707B; interior window	3.33
J	010719-JR08J	Door caulking	Room 706; interior door	1.76
J	010719-JR08JSS	Door caulking	Room 706; interior door	2.86
J	010719-JR09J	Window caulking	Room 705; interior window; east window	4.14
J	010719-JR10J	Window caulking	Room 705/704; interior window; south window	21.6
J	010719-JR11J	Window caulking	Room 705; interior window; west window	83,000

Appendix B

Sample Location Maps



Sample Location Map - Building D - PCB Bulk Source Sampling

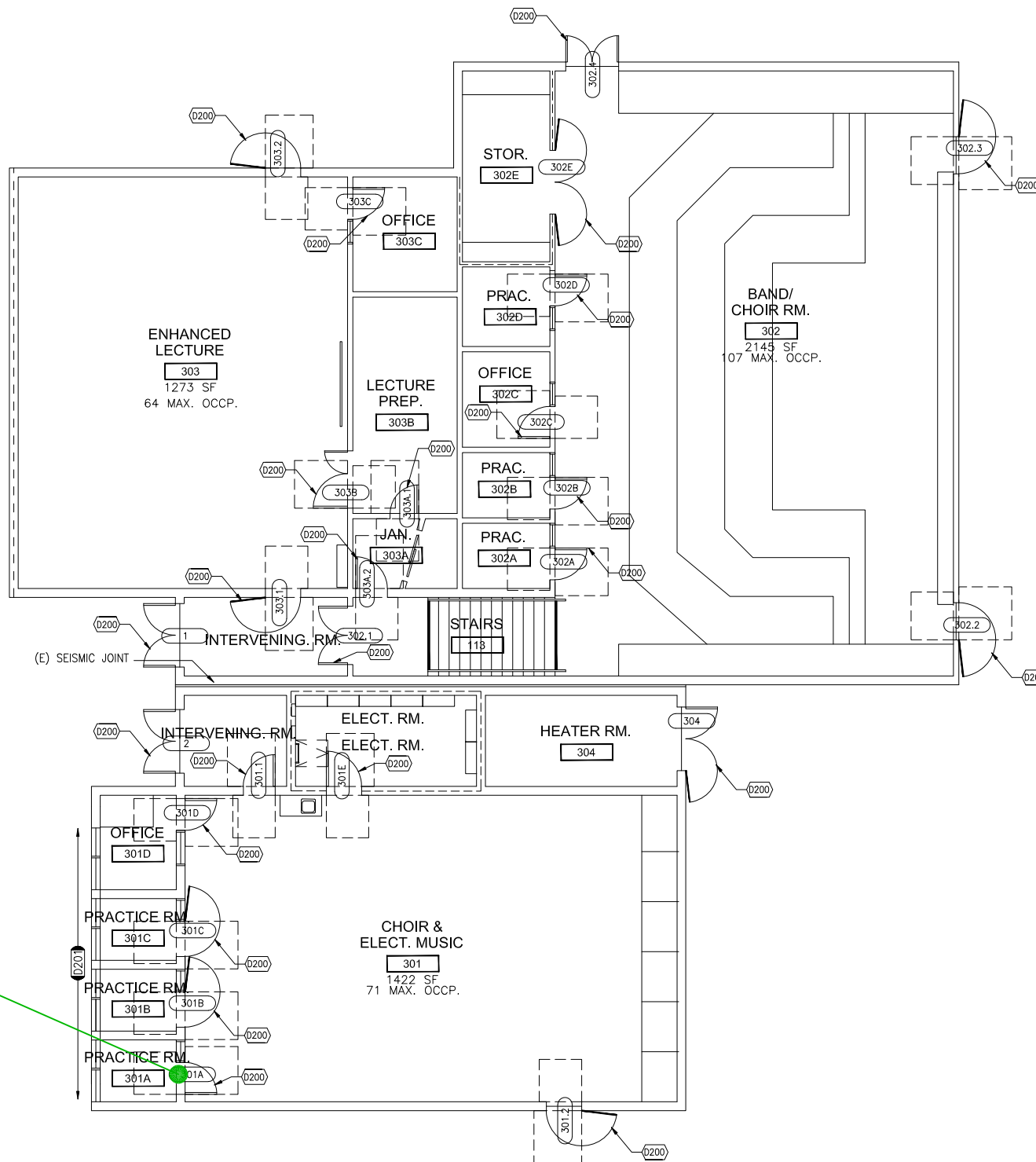
Malibu High School
30215 Morning View Drive
Malibu, California



ALTA
ENVIRONMENTAL

3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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DATE: February 2019 | Project No.: SMSP-18-8202



010719-JR01F
Door Caulking
Non-Detected

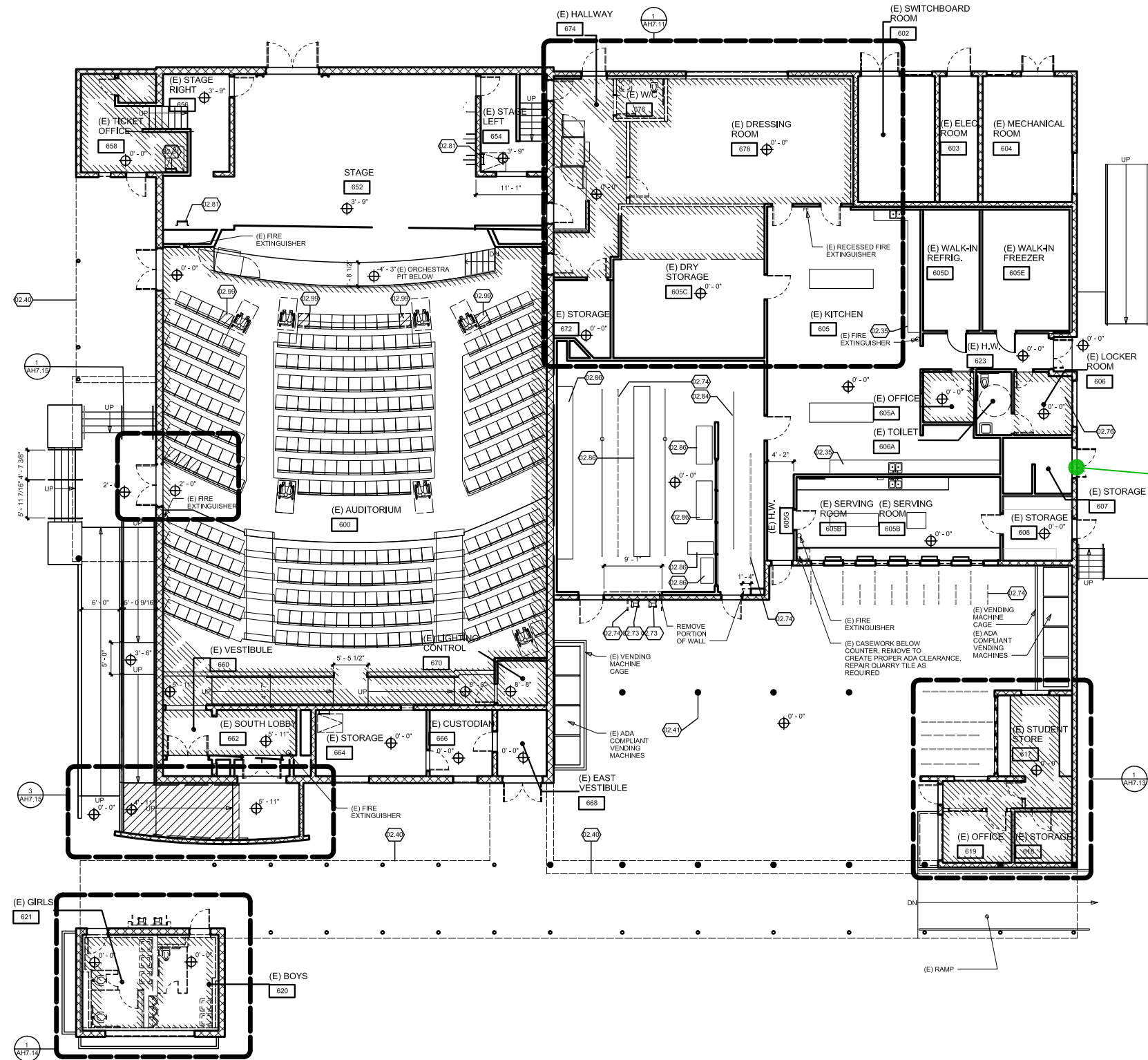
Sample Location Map - Building F - PCB Bulk Source Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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DATE: February 2019 | Project No.: SMSD-18-8202



010719-JR01H
Door Caulking

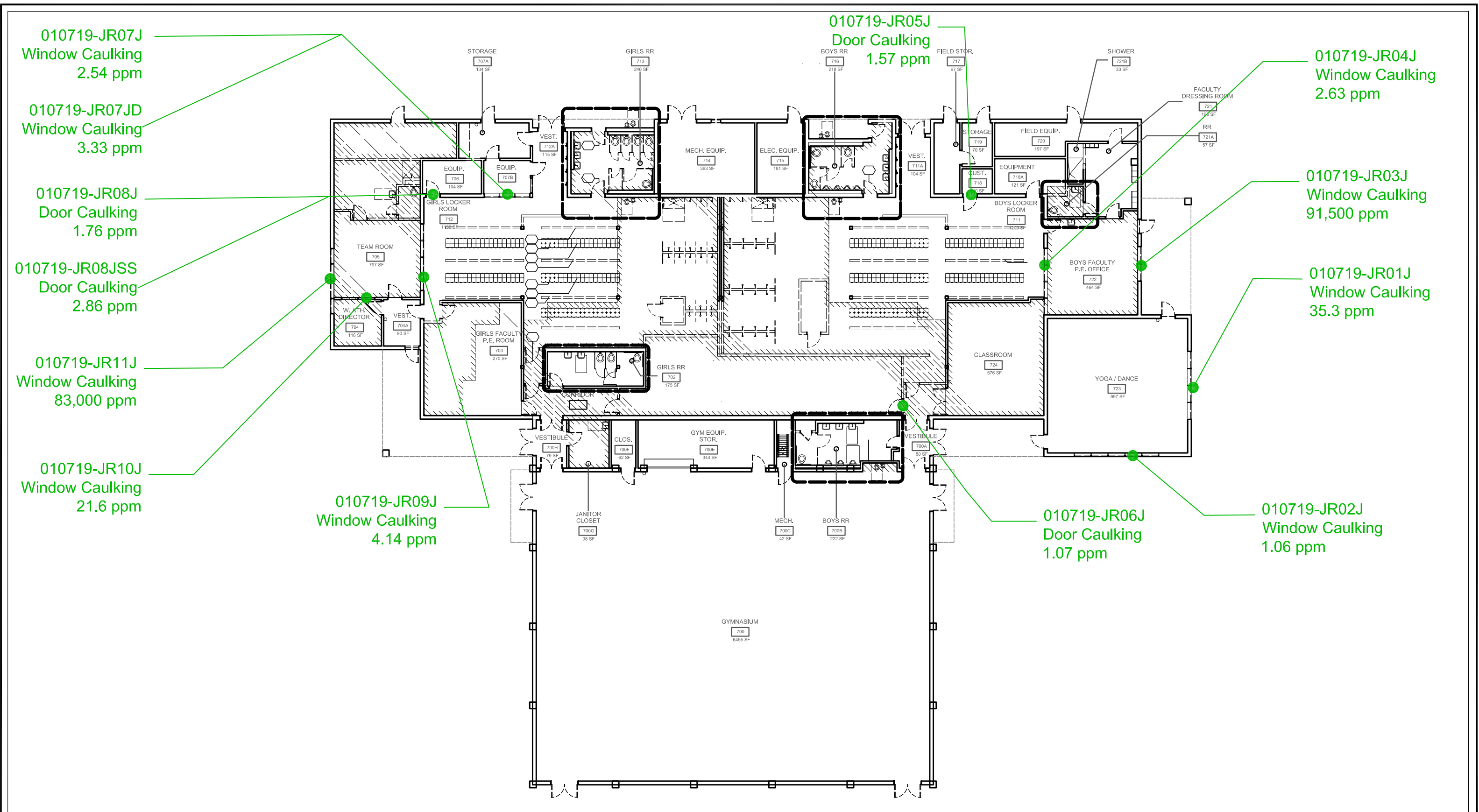
Sample Location Map - Building H - PCB Bulk Source Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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DATE: February 2019 | Project No.: SMSP-18-8202



Sample Location Map - Building J - PCB Bulk Source Sampling

Malibu High School
30215 Morning View Drive
Malibu, California



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

DATE: March 2019 | Project No.: SMSP-18-8202

Appendix C

Laboratory Reports

Enviro - Chem, Inc.

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

Date: January 10, 2019

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

Project: **Malibu High School Bldg H SMSD-18-8202**
Lab I.D.: **190108-41**

Dear Mr. Schack:

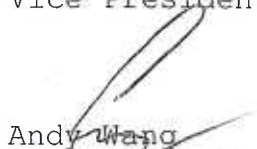
The **analytical results** for the solid sample, received by our laboratory on January 8, 2019, are attached. The sample was received chilled, intact, and accompanying chain of custody.

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

LABORATORY REPORT

CUSTOMER: Alta Environmental
 3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
 Tel: (562) 495-5777 Email: David.Schack@altaenviron.com

PROJECT: Malibu High School Bldg H SMSD-18-8202

DATE SAMPLED: 01/07/19

DATE RECEIVED: 01/08/19

MATRIX: SOLID

DATE EXTRACTED: 01/08-09/19

REPORT TO: MR. DAVID SCHACK

DATE ANALYZED: 01/09/19

DATE REPORTED: 01/10/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
010719- JR01H	190108-41	ND	ND	ND	ND	ND	13.3	ND	13.3	2
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: AS
 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: **Soil/Solid/Sludge**

Date Analyzed: **1/9/2019**

Unit: **mg/Kg(PPM)**

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

Spiked Sample Lab I.D.: **190109-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.103	103%	0.108	108%	4%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.084	84%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190108-41	190108-42				
Tetra-chloro-meta-xylene	50-150	110%	103%	98%				
Decachlorobipneyl	50-150	51%	124%	127%				

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene								
Decachlorobipneyl								

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

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


spk conc = Spike Concentration

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

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

Turnaround Time

☐ Same Day

☐ 24 Hours

☒ 48 Hours

☐ 72 Hours

☐ 1 Week (Standard)

Other:

Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME
-----------	--------	---------------	---------------

01/07/10

6/11/79

1

407m

Analysis Required

COMMENTS

Misc./PO#

me: Alta Divinweren

City/State/Zip: Long Beach CA 90807

Relinquished by:

Relinquished by:

Received by:

Received by:

Received by:

288

DATE: 11/8/19 TIME: 0930

Date & Time:

Date & Time:

Project Contact:

Project Contact:
David Sberic

Tel: (626) 410-5943

Fax/Email:

Sampler's Signature:

Project Name/ID:

Project Name/ID: Marlbu High School 819H
5MSD-18-8202

Instructions for Sample Storage After Analysis:

☐ Dispose of ☐ Return to Client ☐ Store (30 Days)☐ Other:

CHAIN OF CUSTODY RECORD

Date: 01/02/19

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: January 14, 2019

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

Project: **Malibu High School Bldg J SMSD-18-8202**
Lab I.D.: **190110-2**

Dear Mr. Schack:

The **analytical results** for the solid sample, received by our laboratory on January 10, 2019, are attached. The sample was received chilled, 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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: David.Schack@altaenviro.com

PROJECT: Malibu High School Bldg J SMSD-18-8202

DATE SAMPLED: 01/07/19

MATRIX: SOLID

REPORT TO: MR. DAVID SCHACK

DATE RECEIVED: 01/10/19

DATE EXTRACTED: 01/10-11/19

DATE ANALYZED: 01/12/19

DATE REPORTED: 01/14/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
010719- JR08JSS	190110-2	ND	ND	ND	ND	ND	2.86	ND	2.86	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

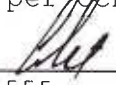
PQL = Practical Quantitation Limit

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 CR-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: **Soil/Solid/Sludge**

Date Analyzed: **1/12/2019**

Unit: **mg/Kg(PPM)**

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

Spike Sample Lab I.D.: **190112-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.089	89%	0.081	81%	9%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.097	97%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190110-2					
Tetra-chloro-meta-xylene	50-150	98%	86%					
Decachlorobipneyl	50-150	94%	110%					

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene								
Decachlorobipneyl								

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

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

spk conc = Spike Concentration

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

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

Enviro - Chem, Inc.

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

Date: January 14, 2019

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

Project: **Malibu High School Bldg J SMSD-18-8202**
Lab I.D.: **190108-49 through -60**

Dear Mr. Schack:

The **analytical results** for the solid samples, received by our laboratory on January 8, 2019, are attached. The samples were received chilled, 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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: David.Schack@altaenviro.com

PROJECT: Malibu High School Bldg D SMSD-18-8202

DATE SAMPLED: 01/07/19

MATRIX: SOLID

REPORT TO: MR. DAVID SCHACK

DATE RECEIVED: 01/08/19

DATE EXTRACTED: 01/08-09/19

DATE ANALYZED: 01/09-10/19

DATE REPORTED: 01/14/19

PCBs ANALYSIS; PAGE 1 OF 2

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
<u>010719-</u>										
JR01J	190108-49	ND	ND	ND	ND	ND	35.3	ND	35.3	10
JR02J	190108-50	ND	ND	ND	ND	ND	1.06	ND	1.06	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 RCRA-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: **Soil/Solid/Sludge**

Date Analyzed: **1/9-10/2019**

Unit: **mg/Kg(PPM)**

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

Spiked Sample Lab I.D.: 190109-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.103	103%	0.108	108%	4%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.084	84%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190108-31	190108-32	190108-33	190108-34	190108-35	190108-36
Tetra-chloro-meta-xylene	50-150	110%	84%	88%	106%	125%	109%	105%
Decachlorobipneyl	50-150	51%	112%	96%	99%	132%	106%	121%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-37	190108-38	190108-39	190108-40	190108-41	190108-42	190108-43	190108-44
Tetra-chloro-meta-xylene	101%	106%	116%	96%	107%	98%	90%	107%
Decachlorobipneyl	115%	133%	147%	91%	107%	146%	129%	117%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-45	190108-46	190108-47	190108-48	190108-49	190108-50
Tetra-chloro-meta-xylene	101%	118%	102%	107%	99%	50%
Decachlorobipneyl	117%	116%	147%	116%	117%	111%

S.R. = Sample Result

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

spk conc = Spike Concentration

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

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: David.Schack@altaenviro.com

PROJECT: Malibu High School Bldg D SMSD-18-8202

DATE SAMPLED: 01/07/19

MATRIX: SOLID

REPORT TO: MR. DAVID SCHACK

DATE RECEIVED: 01/08/19

DATE EXTRACTED: 01/08-09/19

DATE ANALYZED: 01/10-11/19

DATE REPORTED: 01/14/19

PCBs ANALYSIS; PAGE 2 OF 2

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
010719-										
JR03J	190108-51	ND	ND	ND	ND	ND	34000 ***	57500 ***	91500 ***	10000
JR04J	190108-52	ND	ND	ND	ND	ND	ND	2.63	2.63	1
JR05J	190108-53	ND	ND	ND	ND	ND	ND	1.57	1.57	1
JR06J	190108-54	ND	ND	ND	ND	ND	ND	1.07	1.07	2
JR07J	190108-55	ND	ND	ND	ND	ND	ND	2.54	2.54	1
JR08J	190108-56	ND	ND	ND	ND	ND	ND	1.76	1.76	1
JR09J	190108-57	ND	ND	ND	ND	ND	ND	4.14	4.14	1
JR10J	190108-58	ND	ND	ND	ND	ND	13.3	8.27	21.6	2
JR11J	190108-59	ND	ND	ND	ND	ND	33300 ***	49700 ***	83000 ***	10000
JR07JD	190108-60	ND	ND	ND	ND	ND	ND	3.33	3.33	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	DF

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 GCR-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: **Soil/Solid/Sludge**Date Analyzed: **1/10-11/2019**Unit: **mg/Kg(PPM)****Matrix Spike (MS)/Matrix Spike Duplicate (MSD)****Spiked Sample Lab I.D.: 190109-LCS3/4**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.103	103%	0.090	90%	14%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.097	97%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190108-51	190108-52	190108-53	190108-54	190108-55	190108-56
Tetra-chloro-meta-xylene	50-150	97%	111%	103%	92%	137%	96%	115%
Decachlorobipneyl	50-150	92%	120%	132%	124%	148%	126%	145%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-57	190108-58	190108-59	190108-60				
Tetra-chloro-meta-xylene	116%	110%	95%	95%				
Decachlorobipneyl	130%	147%	117%	130%				

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

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

spk conc = Spike Concentration

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

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: Final Reviewer: 

Turnaround Time

☐ Same Day

☐ 24 Hours

☒ 48 Hours

☐ 72 Hours

☐ 1 Week (Standard)

Other:

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

CA-DHS ELAP CERTIFICATE #1555

URE

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TION

MATRIX

PRESERVATION

Analysis Required

COMMENTS

Misc./PO#

Company Name:

Alfa Environmentals

Address:

2777 W. Beech Blvd

City/State/Zip:

Long Beach CA 90807

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

Date & Time: 01/02/19 PM:00

Date & Time:

Date & Time:

Instructions for Sample Storage After Analysis:

☐ Dispose of ☐ Return to Client ☐ Store (30 Days)

0 Other:

Sampler's Signature:

Project Name/ID:

SN 50-140-6707

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date:

Page of

Enviro - Chem, Inc.

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

Date: January 11, 2019

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

Project: **Malibu High School Bldg D SMSD-18-8202**
Lab I.D.: **190108-43 through -48**

Dear Mr. Schack:

The **analytical results** for the solid samples, received by our laboratory on January 8, 2019, are attached. The samples were received chilled, 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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: David.Schack@altaenviron.com

PROJECT: Malibu High School Bldg D SMSD-18-8202

DATE SAMPLED: 01/07/19

MATRIX: SOLID

REPORT TO: MR. DAVID SCHACK

DATE RECEIVED: 01/08/19

DATE EXTRACTED: 01/08-09/19

DATE ANALYZED: 01/09-10/19

DATE REPORTED: 01/11/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
010719-										
JR01	190108-43	ND	ND	ND	ND	ND	1.41	ND	1.41	1
JR02	190108-44	ND	ND	ND	ND	ND	1.49	ND	1.49	2
JR03	190108-45	ND	ND	ND	ND	ND	2.04	ND	2.04	2
JR04	190108-46	ND	ND	ND	ND	ND	1.72	ND	1.72	1
JR05	190108-47	ND	ND	ND	ND	ND	0.260	ND	0.260	1
JR06	190108-48	ND	ND	ND	ND	ND	9.77	ND	9.77	10
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: **Soil/Solid/Sludge**Date Analyzed: **1/9-10/2019**Unit: **mg/Kg(PPM)****Matrix Spike (MS)/Matrix Spike Duplicate (MSD)****Spiked Sample Lab I.D.: 190109-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.103	103%	0.108	108%	4%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.084	84%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190108-31	190108-32	190108-33	190108-34	190108-35	190108-36
Tetra-chloro-meta-xylene	50-150	110%	84%	88%	106%	125%	109%	105%
Decachlorobipneyl	50-150	51%	112%	96%	99%	132%	106%	121%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-37	190108-38	190108-39	190108-40	190108-41	190108-42	190108-43	190108-44
Tetra-chloro-meta-xylene	101%	106%	116%	96%	107%	98%	90%	107%
Decachlorobipneyl	115%	133%	147%	91%	107%	146%	129%	117%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-45	190108-46	190108-47	190108-48	190108-49	
Tetra-chloro-meta-xylene	101%	118%	102%	107%	99%	
Decachlorobipneyl	117%	116%	147%	116%	117%	

S.R. = Sample Result

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


spk conc = Spike Concentration

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

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: Final Reviewer: 

Enviro - Chem, Inc.

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

Date: January 10, 2019

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

Project: **Malibu High School / Bldg F SMSD-18-8202**
Lab I.D.: **190108-42**

Dear Mr. Schack:

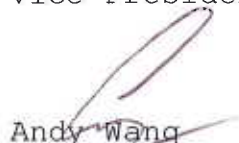
The **analytical results** for the solid sample, received by our laboratory on January 8, 2019, are attached. The sample was received chilled, intact, and accompanying chain of custody.

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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: David.Schack@altaenviron.com

PROJECT: Malibu High School / Bldg F SMSD-18-8202

DATE SAMPLED: 01/07/19
MATRIX: SOLID
REPORT TO: MR. DAVID SCHACK

DATE RECEIVED: 01/08/19
DATE EXTRACTED: 01/08-09/19
DATE ANALYZED: 01/09-10/19
DATE REPORTED: 01/10/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE	LAB	PCB-	PCB-	PCB-	PCB-	PCB-	PCB-	PCB-	TOTAL	DF
I.D.	I.D.	1016	1221	1232	1242	1248	1254	1260	PCBs*	
<u>010719-</u>										
JR01F	190108-42	ND	ND	ND	ND	ND	ND	ND	ND	1
<u>Method Blank</u>		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: **Soil/Solid/Sludge**

Date Analyzed: **1/9-10/2019**

Unit: **mg/Kg(PPM)**

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

Spiked Sample Lab I.D.: **190109-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.103	103%	0.108	108%	4%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.084	84%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190108-31	190108-32	190108-33	190108-34	190108-35	190108-36
Tetra-chloro-meta-xylene	50-150	110%	84%	88%	106%	125%	109%	105%
Decachlorobipneyl	50-150	51%	112%	96%	99%	132%	106%	121%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-37	190108-38	190108-39	190108-40	190108-41	190108-42	190108-43	
Tetra-chloro-meta-xylene	101%	106%	116%	96%	107%	98%	90%	
Decachlorobipneyl	115%	133%	147%	91%	107%	146%	129%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

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


spk conc = Spike Concentration

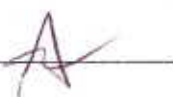
Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

Turnaround Time

<input type="radio"/>	Same Day
<input type="radio"/>	0-24 Hours
<input checked="" type="radio"/>	24-48 Hours
<input type="radio"/>	48-72 Hours
<input type="radio"/>	0-1 Week (Standard)

Other: _____

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

CA-DHS ELAP CERTIFICATE #1555

TEMPERATURE

NO. OF CONTAINERS

MATRIX

PRESERVATION

Analysis Required

COMMENTS

Misc./PO#

EPH 2002
2/2/02

[illegible]

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Enviro - Chem, Inc.

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

Date: January 11, 2019

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

Project: **Malibu High School Bldg G SMSD-18-8202**
Lab I.D.: **190108-31 through -40**

Dear Mr. Schack:

The **analytical results** for the solid samples, received by our laboratory on January 8, 2019, are attached. The samples were received chilled, 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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 E-Mail: David.Schack@altaenviron.com

PROJECT: Malibu High School Bldg G SMSD-18-8202

DATE SAMPLED: 01/07/19

MATRIX: SOLID

REPORT TO: MR. DAVID SCHACK

DATE RECEIVED: 01/08/19

DATE EXTRACTED: 01/08-09/19

DATE ANALYZED: 01/09-10/19

DATE REPORTED: 01/11/19

PCBs ANALYSIS

METHOD: EPA 3540C/8082

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB- 1016	PCB- 1221	PCB- 1232	PCB- 1242	PCB- 1248	PCB- 1254	PCB- 1260	TOTAL PCBs*	DF
010719-										
JR01G	190108-31	ND	ND	ND	ND	ND	0.638	ND	0.638	1
JR02G	190108-32	ND	ND	ND	ND	ND	5.38	ND	5.38	2
JR03G	190108-33	ND	ND	ND	ND	ND	246000 ***	ND	246000 ***	10000
JR04G	190108-34	ND	ND	ND	ND	ND	13.5	ND	13.5	2
JR05G	190108-35	ND	ND	ND	ND	ND	231000 ***	ND	231000 ***	10000
JR06G	190108-36	ND	ND	ND	ND	ND	22300 ***	ND	22300 ***	20000
JR07G	190108-37	ND	ND	ND	ND	ND	4940 ***	ND	4940 ***	2000
JR08G	190108-38	ND	ND	ND	ND	ND	99.5 ***	ND	99.5 ***	20
JR09G	190108-39	ND	ND	ND	ND	ND	79.5 ***	ND	79.5 ***	10
JR10G	190108-40	ND	ND	ND	ND	ND	6790 ***	ND	6790 ***	2000
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: **Soil/Solid/Sludge**Date Analyzed: **1/9-10/2019**Unit: **mg/Kg(PPM)****Matrix Spike (MS)/Matrix Spike Duplicate (MSD)****Spiked Sample Lab I.D.: 190109-LCS1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.103	103%	0.108	108%	4%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.084	84%	75-125

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	190108-31	190108-32	190108-33	190108-34	190108-35	190108-36
Tetra-chloro-meta-xylene	50-150	110%	84%	88%	106%	125%	109%	105%
Decachlorobipneyl	50-150	51%	112%	96%	99%	132%	106%	121%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	190108-37	190108-38	190108-39	190108-40	190108-41	190108-42	190108-43	
Tetra-chloro-meta-xylene	101%	106%	116%	96%	107%	98%	90%	
Decachlorobipneyl	115%	133%	147%	91%	107%	146%	129%	

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.						
Tetra-chloro-meta-xylene						
Decachlorobipneyl						

S.R. = Sample Result

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



spk conc = Spike Concentration

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

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 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
☐ Same Day
☐ 24 Hours
☒ 48 Hours
☐ 72 Hours
☐ 1 Week (Standard)
 Other:

SAMPLE ID		LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	Misc./PO#
610719	-JRC1G	190108-31	01/07/19		Ball	1		1/e	X					
	-JRC2G	-32							X					
	-JRC3G	-33							X					
	-JRC4G	-34							X					
	-JRC5G	-35							X					
	-JRC6G	-36							X					
	-JRC7G	-37							X					
	-JRC8G	-38							X					
	-JRC9G	-39							X					
	-JRC10G	-40							X					
Company Name: Alta Environmental					Project Contact: Daniel Smetek/Scott N					Sampler's Signature: <i>[Signature]</i>				
Address: 3777 Los Bena Blvd					Tel: (909) 410-5443					Project Name/ID: Malibu High School Bldg G				
City/State/Zip: Los Bena CA 90007					Fax/Email: <i>[Signature]</i>					SMSD-1E-2202				
Relinquished by: <i>[Signature]</i>					Received by: <i>[Signature]</i>					Date & Time: 01/07/19 0800				
Relinquished by:					Received by:					Date & Time:				
Relinquished by:					Received by:					Date & Time:				

CHAIN OF CUSTODY RECORD

Date: 01/09/19

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page 1 of 1

Appendix D

Photographs

Malibu High School – Building H

010719-JR01



010719-JR02



Malibu High School – Building H

010719-JR03



010719-JR04



Malibu High School – Building H

010719-JR05

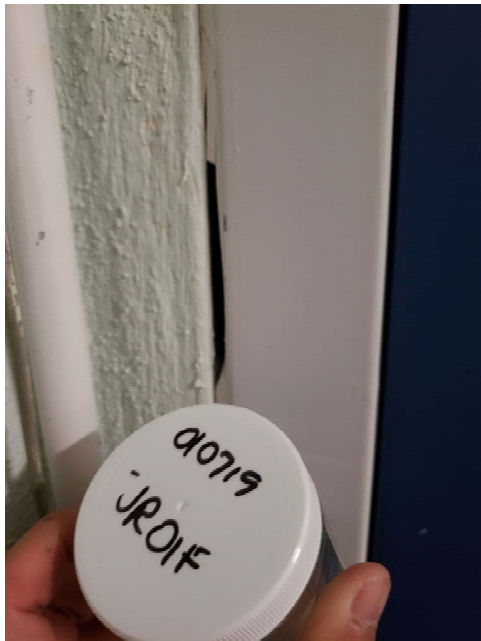


010719-JR06



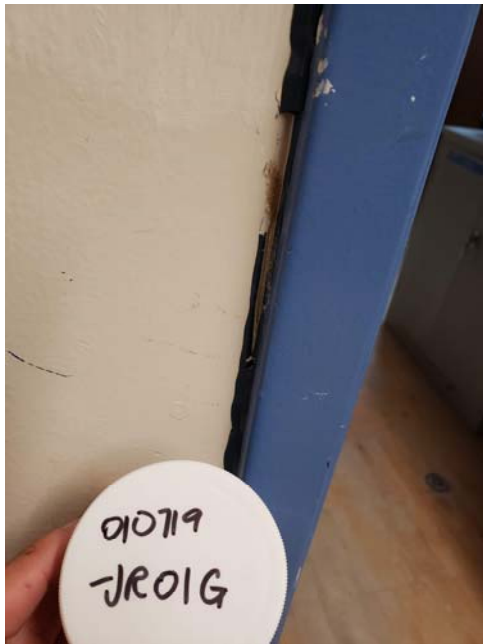
Malibu High School – Building F

010719-JR01F



Malibu High School – Building G

010719-JR01G



010719-JR02G



Malibu High School – Building G

010719-JR03G



010719-JR04G

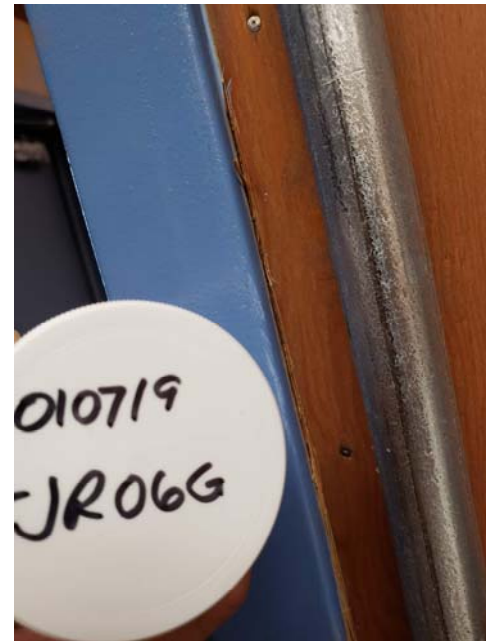


Malibu High School – Building G

010719-JR05G



010719-JR06G



Malibu High School– Building G

010719-JR07G



010719-JR08G



Malibu High School – Building G

010719-JR09G

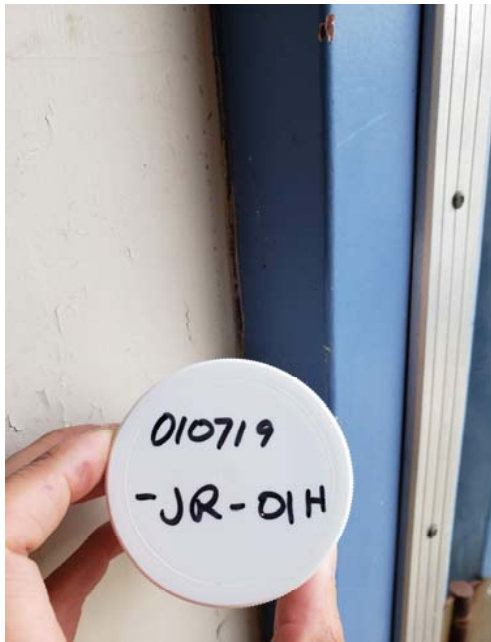


010719-JR10G



Malibu High School – Building H

010719-JR01H



Malibu High School – Building J

010719-JR01J



010719-JR02J



Malibu High School – Building J

010719-JR03J



010719-JR04J



Malibu High – Building J

010719-JR05J

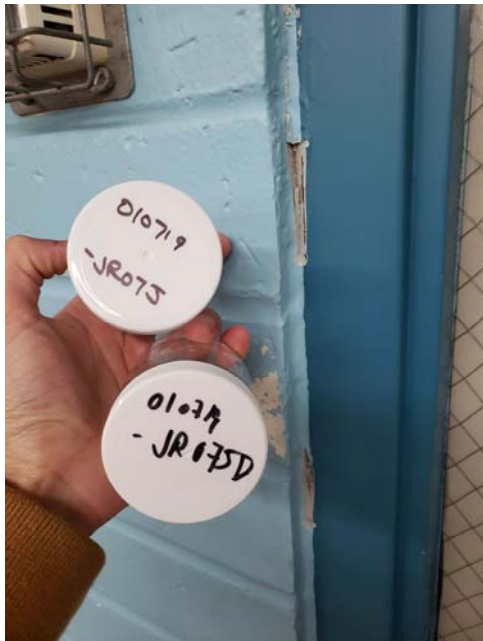


010719-JR06J

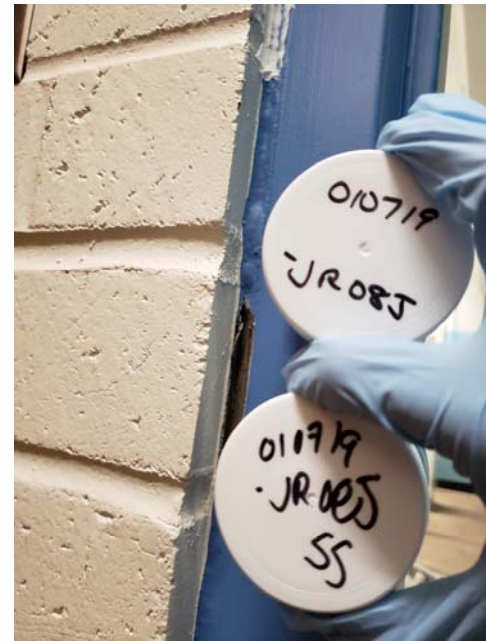


Malibu High School – Building J

010719-JR07J, 010719-JR07JD



010719-JR08J, 010719-JR08JSS



Malibu High School – Building J

010719-JR09J



010719-JR10J



Malibu High School – Building J

010719-JR11J

