



March 8, 2020

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

Attention: Carey Upton

**Re: PCB Removal Clearance Letter
Malibu High School-Building H**

1 PROJECT BACKGROUND

Alta Environmental DBA NV5 (NV5) conducted full-time monitoring and observation during the removal of building material containing polychlorinated biphenyls (PCBs) from Rooms 605A, 606, 606A, 608, 662 and 666, located in Building H at Malibu High School (Site). The removal activities were conducted in accordance with the USEPA-approved *Notification of New PCB-impacted Building Materials at Malibu High School* dated August 19, 2020 (Work Plan).

2 PROJECT OBSERVATIONS

Project observations of work activities completed at the Site are described below.

Removal Work Activities

Miller Environmental, Inc. (Miller) completed removal of PCB-containing source material (door, window and vent caulking) at the Site. Prior to beginning removal activities, a full containment work area including critical barriers, three-stage worker decontamination facility, and temporary negative pressure differential was established. Removal activities were completed by HAZWOPER-trained technicians using manual means and wet methods.

2.1 Door and Window Caulking

Miller removed all visible caulking material and adjoining porous substrate to a minimum distance of 16 inches from the door and window assemblies in Rooms 605A, 606, 606A and 608. Following removal activities, Miller and NV5 field personnel performed a final visual inspection of the containment areas. Once the areas were found to be acceptably free of PCB-impacted materials, dust and other debris, NV5 collected initial clearance wipe samples, prior to Miller removing the work area containment systems. All initial clearance wipe samples were reported with PCB concentrations less than 1 microgram (μg) per 100 square-centimeters (cm^2) and the containments were subsequently removed to facilitate build-back using new building materials.

Following completion of all build-back activities, confirmation air and wipe samples were collected on September 9 and 10, 2020, prior to re-occupancy. All confirmation air and wipe samples were reported with

NV5 | Alta Environmental

3777 Long Beach Boulevard Annex Building Long Beach CA 90807 United States of America
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laboratory results, the subject work area was released back to the Santa Monica Malibu Unified School District for re-occupancy on September 15, 2020.

2.2 Vent Caulking

Miller removed all visible caulking material from each of the exterior wall vent assemblies located in the second-story mechanical rooms above Building H Rooms 662 and 666. In addition, Miller utilized a chemical wash to clean and remove any remaining residue from the vent assemblies. Following the removal and cleaning, NV5 collected wipe samples from each of the vent assemblies to confirm adequate removal of any remaining PCB-impacted caulk residue. Upon notification that the sample results were below $1 \mu\text{g}/100\text{cm}^2$, Miller applied an encapsulant and metal cladding to minimum distance of 16 inches around the wall openings and reinstalled the cleaned vent assemblies into the wall opening.

Following the vent replacement activities, Miller and NV5 field personnel performed a final visual inspection of the containment areas. Once the areas were found to be acceptably free of PCB-impacted materials, dust and other debris, NV5 collected clearance wipe samples, prior to removing the work area containment systems. All initial clearance wipe samples were reported with PCB concentrations less than $1 \mu\text{g}/100\text{cm}^2$ and the containments were subsequently removed. Based on the reported laboratory results, the subject work area was released back to the Santa Monica Malibu Unified School District for re-occupancy on September 24, 2020.

3 CONCLUSIONS

The previously identified PCB-impacted caulking materials within Malibu High School Building H Rooms 605A, 606, 606A, 608, 662 and 666 were appropriately removed and disposed, and any remaining substrate (Room 662 and 666) was covered with encapsulant and metal cladding in accordance with the USEPA-approved Work Plan.

4 SIGNATORY

Respectfully submitted by:

NV5


Jonathan Barkman
Project Manager

Attachments:

Laboratory Analytical Reports

APPENDIX A

Laboratory Results – Initial Post-Remediation Sampling



American Environmental Testing Laboratory Inc.

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Ordered By

NV5
3777 Long Beach Blvd.
Long Beach, CA 90807-

Number of Pages 4
Date Received 07/21/2020
Date Reported 07/22/2020

Telephone: (562)495-5777
Attention: Jonathan Barkman

Job Number	Order Date	Client
105485	07/21/2020	NV5

Project ID: SMSD-20-9592
Project Name: Malibu High School
Site: Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find results of analyses of 7 solid samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____

Approved By: _____

Joe Sevrean
Laboratory Director



AMERICAN ENVIRONMENTAL TESTING LABORATORY
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BBG Q/78

CHAIN OF CUSTODY RECORD

120169

AETL JOB No. 105485

Page 1 of 1

COMPANY: **NVS - Alta Environmental**
 COMPANY ADDRESS: **JONATHAN BARKMAN**
 PROJECT NAME: **3277 Long Beach Blvd. Annex, Long Beach**
 SITE NAME AND ADDRESS: **Malibu High School**
 PROJECT #: **SMSD-20-9592**
 PROJECT MANAGER: **JONATHAN BARKMAN**
 PHONE: **310-920-8404**
 EMAIL: **jonathan.barkman@nvs.com**
 PG# **32015 Morning View Dr. Malibu, CA**

ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS		
SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
1	H0721-1	105485.01	072120	WIPE	1 4oz jar	ICE
2	H0721-2	105485.02	1336	WIPE		
3	H0721-3	105485.03	1340	WIPE		
4	H0721-4	105485.04	1343	WIPE		
5	H0721-5	105485.05	1345	WIPE		
6	H0721-6	105485.06	1348	WIPE		
7	H0721-7	105485.07	1352	WIPE		
8						
9						
10						
11						
12						
13						
14						
15						

PCB EPA 8082
 X
 Soxhlet
 Extraction
 X
 X
 X
 X
 X
 X
 X

TOTAL NUMBER OF CONTAINERS: **7**

BILLING INFORMATION / SPECIAL INSTRUCTIONS
 CC: **Jonathan.Barkman@NVS.com**
DAVID.SCHACK@NVS.COM

TURN AROUND TIME
 NORMAL
 SAME DAY RUSH
 2 DAYS RUSH
 3 DAYS RUSH
 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY
 E-COPY
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY)

RELINQUISHED BY: SAMPLER:	RELINQUISHED BY: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature: <i>Am Ar</i> Printed Name: RANDY Flores Date: 7/21/20 Time: 15:00	Signature: <i>Alondra Villanvera</i> Printed Name: Alondra Villanvera Date: 072120 Time: 16:40	Signature: <i>Alondra Villanvera</i> Printed Name: Alondra Villanvera Date: 072120 Time: 16:40	Signature: <i>Alondra Villanvera</i> Printed Name: Alondra Villanvera Date: 072120 Time: 16:40

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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COOLER RECEIPT FORM

Client Name: <i>NV5</i>			
Project Name:			
AETL Job Number: <i>105485</i>			
Date Received: <i>7/21/2020</i>		Received by: <i>Sargis-P</i>	
Carrier: <input checked="" type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSO <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>1</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>3.3°C</i> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input checked="" type="checkbox"/> Other (Specify): <i>WIPS</i>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	<i>✓</i>		
2. Are the Sample labels legible?	<i>✓</i>		
3. Do samples match the COC?	<i>✓</i>		
4. Are the required analyses clear?	<i>✓</i>		
5. Is there enough samples for required analysis?	<i>✓</i>		
6. Are samples sealed with evidence tape?	<i>N/A</i>		
7. Are sample containers in good condition?	<i>✓</i>		
8. Are samples preserved?	<i>✓</i>		
9. Are samples preserved properly for the intended analysis?	<i>✓</i>		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	<i>✓</i>		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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Page: 1 A

Ordered By

NV5
3777 Long Beach Blvd.
Long Beach, CA 90807-

Project ID: SMSD-20-9592
Date Received 07/21/2020
Date Reported 07/22/2020

Telephone: (562) 495-5777
Attention: Jonathan Barkman

Job Number	Order Date	Client
105485	07/21/2020	NV5

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 7 samples with the following specification on 07/21/2020.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
105485.01	H0721-1	07/21/2020	Solid	1
105485.02	H0721-2	07/21/2020	Solid	1
105485.03	H0721-3	07/21/2020	Solid	1
105485.04	H0721-4	07/21/2020	Solid	1
105485.05	H0721-5	07/21/2020	Solid	1
105485.06	H0721-6	07/21/2020	Solid	1
105485.07	H0721-7	07/21/2020	Solid	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(8082)	07/22/2020	2	Rush	ug/Kg

The samples were analyzed as specified on the enclosed chain of custody. No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: 

Approved By: 

Joe Sevrean
Laboratory Director



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ANALYTICAL RESULTS

Ordered By

NV5
 3777 Long Beach Blvd.
 Long Beach, CA 90807-

Site

Malibu High School
 30215 Morning View Dr.
 Malibu, CA 90265

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 2

Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105485	07/21/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 072120ZB1

Our Lab I.D.		Method Blank	105485.01	105485.02	105485.03	105485.04	
Client Sample I.D.			H0721-1	H0721-2	H0721-3	H0721-4	
Date Sampled			07/21/2020	07/21/2020	07/21/2020	07/21/2020	
Date Prepared		07/21/2020	07/21/2020	07/21/2020	07/21/2020	07/21/2020	
Preparation Method		3540C	3540C	3540C	3540C	3540C	
Date Analyzed		07/22/2020	07/22/2020	07/22/2020	07/22/2020	07/22/2020	
Matrix		Solid	Solid	Solid	Solid	Solid	
Units		ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor		1	1	1	1	1	
Analytes	MDL	PQL	Results	Results	Results	Results	Results
Aroclor-1016 (PCB-1016)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1221 (PCB-1221)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1232 (PCB-1232)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1242 (PCB-1242)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1248 (PCB-1248)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1254 (PCB-1254)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1260 (PCB-1260)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1262 (PCB-1262)	20.0	50.0	ND	ND	ND	ND	ND
Aroclor-1268 (PCB-1268)	20.0	50.0	ND	ND	ND	ND	ND
Our Lab I.D.		Method Blank	105485.01	105485.02	105485.03	105485.04	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	58.8	48.6	50.4	48.8	51.0	
Tetrachloro-m-xylene	30-150	43.4	48.0	58.4	54.0	60.0	



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ANALYTICAL RESULTS

Ordered By

NV5
 3777 Long Beach Blvd.
 Long Beach, CA 90807-

Site

Malibu High School
 30215 Morning View Dr.
 Malibu, CA 90265

Telephone: (562)495-5777

Attn: Jonathan Barkman

Page: 3

Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105485	07/21/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 072120ZB1

Our Lab I.D.			105485.05	105485.06	105485.07		
Client Sample I.D.			H0721-5	H0721-6	H0721-7		
Date Sampled			07/21/2020	07/21/2020	07/21/2020		
Date Prepared			07/21/2020	07/21/2020	07/21/2020		
Preparation Method			3540C	3540C	3540C		
Date Analyzed			07/22/2020	07/22/2020	07/22/2020		
Matrix			Solid	Solid	Solid		
Units			ug/Kg	ug/Kg	ug/Kg		
Dilution Factor			1	1	1		
Analytes	MDL	PQL	Results	Results	Results		
Aroclor-1016 (PCB-1016)	20.0	50.0	ND	ND	ND		
Aroclor-1221 (PCB-1221)	20.0	50.0	ND	ND	ND		
Aroclor-1232 (PCB-1232)	20.0	50.0	ND	ND	ND		
Aroclor-1242 (PCB-1242)	20.0	50.0	ND	ND	ND		
Aroclor-1248 (PCB-1248)	20.0	50.0	ND	ND	ND		
Aroclor-1254 (PCB-1254)	20.0	50.0	ND	ND	ND		
Aroclor-1260 (PCB-1260)	20.0	50.0	ND	ND	ND		
Aroclor-1262 (PCB-1262)	20.0	50.0	ND	ND	ND		
Aroclor-1268 (PCB-1268)	20.0	50.0	ND	ND	ND		
Our Lab I.D.			105485.05	105485.06	105485.07		
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.		
Decachlorobiphenyl	30-150		80.0	76.0	58.8		
Tetrachloro-m-xylene	30-150		52.0	66.0	60.0		



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QUALITY CONTROL RESULTS

Ordered By

NV5
3777 Long Beach Blvd.
Long Beach, CA 90807-

Site

Malibu High School
30215 Morning View Dr.
Malibu, CA 90265

Telephone: (562)495-5777

Attn: Jonathan Barkman

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Project ID: SMSD-20-9592

Project Name: Malibu High School

AETL Job Number	Submitted	Client
105485	07/21/2020	NV5

Method: (8082), Polychlorinated Biphenyls (PCBs) by GC

QC Batch No: 072120ZB1; LCS: Blank; LCS Prepared: 07/21/2020; LCS Analyzed: 07/22/2020; Units: ug/Kg

Analytes	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Aroclor-1016 (PCB-1016)	500	484	96.8	500	487	97.4	<1	50-150	<40	
Aroclor-1260 (PCB-1260)	500	510	102	500	493	98.6	3.4	50-150	<40	
Surrogates										
Decachlorobiphenyl	50.0	29.0	58.0	50.0	27.8	55.6	4.2	30-150	<20	
Tetrachloro-m-xylene	50.0	30.5	61.0	50.0	27.7	55.4	9.6	30-150	<20	



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Data Qualifiers and Descriptors

Data Qualifier:

- #: Recovery is not within acceptable control limits.
- *: In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
- B: Analyte was present in the Method Blank.
- D: Result is from a diluted analysis.
- E: Result is beyond calibration limits and is estimated.
- H: Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
- J: Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
- M: Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
- MCL: Maximum Contaminant Level
- NS: No Standard Available
- S6: Surrogate recovery is outside control limits due to matrix interference.
- S8: The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
- X: Results represent LCS and LCSD data.

Definition:

- %Limi: Percent acceptable limits.
- %REC: Percent recovery.
- Con.L: Acceptable Control Limits
- Conce: Added concentration to the sample.
- LCS: Laboratory Control Sample
- MDL: Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.



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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference



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September 23, 2020

AETL Job No: BBI0259
Received Date: 09/22/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: MMHS
Site: Malibu HS
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBI0259

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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 4.0 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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CHAIN OF CUSTODY RECORD

119557

BB10259

AETL JOB No.

Page 1 of 1

COMPANY NV5/ALTA
PROJECT MANAGER Jonathan Barkman
PHONE 310 920 8404
EMAIL jonath@nv5.com
PROJECT# MSD-20-9592
PO #

COMPANY ADDRESS 3777 Long Beach Blvd. Annex Bldg.
PROJECT NAME MMHS
SITE NAME AND ADDRESS 30215 Morning View Dr.
 Malibu Cal, 90265

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED				TEST INSTRUCTIONS & COMMENTS	
W-1	BB10259-01	9/22/20	0830	WIPE	100cm ²	VCE	XX					
W-2	BB10259-02	9/22/20	0835	WIPE	100cm ²	VCE	XX					
W-3	BB10259-03	9/22/20	0840	WIPE	100cm ²	VCE	XX					

TOTAL NUMBER OF CONTAINERS: 3

BILLING INFORMATION / SPECIAL INSTRUCTIONS

RELINQUISHED BY SAMPLER: Signature: [Signature] Date: 9/27/20 Time: 1010

RECEIVED BY: Signature: [Signature] Date: 9/27/20 Time: 1010

RELINQUISHED BY: Signature: [Signature] Date: 9/27/20 Time: 1010

RECEIVED BY LABORATORY: Signature: [Signature] Date: 9/27/20 Time: 1010

TURN AROUND TIME
 NORMAL
 2 DAYS RUSH
 SAME DAY RUSH
 3 DAYS RUSH
 NEXT DAY RUSH
 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY
 E-COPY
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



A KYZER LABS COMPANY

AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181

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COOLER RECEIPT FORM

Client Name: <i>NYS</i>			
Project Name:			
AETL Job Number: <i>BB/0259</i>			
Date Received: <i>9/22/2020</i>		Received by: <i>Sargis Pireh</i>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>1</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>4°C</i> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input checked="" type="checkbox"/> Other (Specify): <i>WIPS</i>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	<i>N/A</i>		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0259 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu HS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/23/2020 17:05
--	---	---

Samples Received

AETL received the following samples on 09/22/2020 with the following specifications

Project Name: Malibu HS Site: 30215 Morning View Dr. Malibu, CA 90265		
Client ID W-1		Sample Date 09/22/2020 8:30
Lab ID BBI0259-01	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-2		Sample Date 09/22/2020 8:35
Lab ID BBI0259-02	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID W-3		Sample Date 09/22/2020 8:40
Lab ID BBI0259-03	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1

Total Number of Samples received: 3



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0259 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu HS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/23/2020 17:05
--	---	---

Positive Hits Summary

Lab ID	Client ID					Received
BBI0259-01	W-1					09/22/2020 10:10
Method	Analyte	Result	Qualifier	Unit	Analyzed	
EPA 8082	Aroclor-1254 (PCB-1254)	0.251		ug/100cm2	09/23/2020 10:43	



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Analytical Results

Client ID: **W-1**

Lab ID: **BBI0259-01 (Wipe)**

Sampled: **09/22/20 8:30**

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: **EPA 8082**

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1254 (PCB-1254)	0.251		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	75.8%			30-150	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	92.6%			30-150	09/22/20 11:19	09/23/20 10:43	B0I0479	ATS	3540C		



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Analytical Results

Client ID: W-2

Lab ID: BBI0259-02 (Wipe)

Sampled: 09/22/20 8:35

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	85.2%						09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C
Surrogate: Tetrachloro-m-xylene	81.6%						09/22/20 11:19	09/23/20 11:02	B0I0479	ATS	3540C

Acceptance Criteria

							30-150	09/22/20 11:19			
							30-150	09/22/20 11:19			



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Analytical Results

Client ID: W-3

Lab ID: BBI0259-03 (Wipe)

Sampled: 09/22/20 8:40

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	72.0%						09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
Surrogate: Tetrachloro-m-xylene	76.1%						09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C

Acceptance Criteria

							30-150	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C
							30-150	09/22/20 11:19	09/23/20 11:42	B0I0479	ATS	3540C



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0479 - 3540C											
Method Blank (B0I0479-BLK1)											
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
Surrogate: Decachlorobiphenyl	0.0495			ug/100cm2	0.0500		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.0367			ug/100cm2	0.0500		73.3	30-150			



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0479 - 3540C (Continued)					Prepared: 09/22/2020 11:19						
LCS (B0I0479-BS1)					Analyzed: 09/23/2020 09:44						
Aroclor-1016 (PCB-1016)	0.912	0.0200	0.0500	ug/100cm2	1.00		91.2	50-150			
Aroclor-1260 (PCB-1260)	1.25	0.0200	0.0500	ug/100cm2	1.00		125	50-150			
<hr/>											
Surrogate: Decachlorobiphenyl	0.0709			ug/100cm2	0.0500		142	30-150			
Surrogate: Tetrachloro-m-xylene	0.0477			ug/100cm2	0.0500		95.3	30-150			
<hr/>											
LCSD (B0I0479-BSD1)					Analyzed: 09/23/2020 10:04						
Aroclor-1016 (PCB-1016)	0.915	0.0200	0.0500	ug/100cm2	1.00		91.5	50-150	<1.00	40	
Aroclor-1260 (PCB-1260)	1.07	0.0200	0.0500	ug/100cm2	1.00		107	50-150	14.9	40	
<hr/>											
Surrogate: Decachlorobiphenyl	0.0566			ug/100cm2	0.0500		113	30-150			
Surrogate: Tetrachloro-m-xylene	0.0417			ug/100cm2	0.0500		83.5	30-150			



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference



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NV5	AETL Job Number: BBI0259	Site: Malibu HS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:05

SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

APPENDIX B

Laboratory Results – Building Component Reuse Confirmation Sampling



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September 23, 2020

AETL Job No: BBI0260
Received Date: 09/22/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777
Attention: Jonathan Barkman

Project Name: MMHS
Site: MMHS
30215 Morning View Dr.
Malibu, CA 90265

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBI0260

1	Cover Letter	1
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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 4.0 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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CHAIN OF CUSTODY RECORD

117954

AETL JOB No. **BB10260**

Page **1** of **1**

COMPANY: **NVS/ALTA** PROJECT MANAGER: **SON DAKEMAN**
 COMPANY ADDRESS: **3777 Long Beach Blvd** PHONE: **310 920-8404**
 PROJECT NAME: **MMHS** EMAIL: **Jordan.Buckner@nvs.com**
 SITE NAME AND ADDRESS: **MARLOW H.S.** PROJECT #: **SMSP-20-9592**
 PO #:

ANALYSIS REQUESTED

SAMPLE ID	LAB ID	DATE	MATRIX	CONTAINER NUMBER/SIZE	PRES.	TEST INSTRUCTIONS & COMMENTS
A-1	BB10260-01	9/22/20	WIPE	100um ²	ICE	FPA 5082
A-2	BB10260-02	0905	I	I	I	SOXHELT

TOTAL NUMBER OF CONTAINERS: 2

BILLING INFORMATION / SPECIAL INSTRUCTIONS

TURN AROUND TIME
 NORMAL SAME DAY RUSH NEXT DAY RUSH 3 DAYS RUSH 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY E-COPY GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY)

1. RELINQUISHED BY SAMPLER: **W. J.**
 Signature: _____ Printed Name: _____ Date: _____ Time: _____

2. RELINQUISHED BY: _____
 Signature: _____ Printed Name: _____ Date: _____ Time: _____

3. RELINQUISHED BY: _____
 Signature: _____ Printed Name: _____ Date: _____ Time: _____

1. RECEIVED BY: **Randy Florio**
 Signature: _____ Printed Name: _____ Date: 9/22/20 Time: 1010

2. RECEIVED BY: _____
 Signature: _____ Printed Name: _____ Date: _____ Time: _____

3. RECEIVED BY LABORATORY: _____
 Signature: _____ Printed Name: _____ Date: _____ Time: _____

1010



A KYZER LABS COMPANY

AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181

TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

COOLER RECEIPT FORM

Client Name: <i>NV5</i>			
Project Name:			
AETL Job Number: <i>BB10260</i>			
Date Received: <i>9/22/2020</i>		Received by: <i>Sergis Pireh</i>	
Carrier: <input type="checkbox"/> AETL Courier <input checked="" type="checkbox"/> Client <input type="checkbox"/> GLS <input type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>1</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>4°C</i> , No 2: , No 3:			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input checked="" type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input checked="" type="checkbox"/> Other (Specify): <i>WIPS</i>			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	N/A		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	N/A		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

No analytical non-conformances were encountered.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0260 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/23/2020 17:04
--	---	--

Samples Received

AETL received the following samples on 09/22/2020 with the following specifications

Project Name: MMHS Site: 30215 Morning View Dr. Malibu, CA 90265		
Client ID A-1		Sample Date 09/22/2020 9:00
Lab ID BBI0260-01	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID A-2		Sample Date 09/22/2020 9:05
Lab ID BBI0260-02	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Total Number of Samples received:		2



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0260 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/23/2020 17:04
--	---	--

Positive Hits Summary

Lab ID	Client ID	Received			
BBI0260-01	A-1	09/22/2020 10:10			
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.793		ug/100cm2	09/23/2020 12:01



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0260 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: MMHS 30215 Morning View Dr. Malibu, CA 90265 Reported: 09/23/2020 17:04
--	---	--

Analytical Results

Client ID: A-1

Lab ID: BBI0260-01 (Wipe)

Sampled: 09/22/20 9:00

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1254 (PCB-1254)	0.793		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	67.9%			30-150	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	62.3%			30-150	09/22/20 11:19	09/23/20 12:01	B0I0479	ATS	3540C		



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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

Analytical Results

Client ID: A-2

Lab ID: BBI0260-02 (Wipe)

Sampled: 09/22/20 9:05

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/22/20 11:19	09/23/20 12:21	B0I0479	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	58.0%
Surrogate: Tetrachloro-m-xylene	51.7%

Acceptance Criteria



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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0479 - 3540C											
Method Blank (B0I0479-BLK1)											
Prepared: 09/22/2020 11:19											
Analyzed: 09/23/2020 10:23											
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
<hr/>											
Surrogate: Decachlorobiphenyl	0.0495			ug/100cm2	0.0500		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.0367			ug/100cm2	0.0500		73.3	30-150			



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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0479 - 3540C (Continued)					Prepared: 09/22/2020 11:19						
LCS (B0I0479-BS1)					Analyzed: 09/23/2020 09:44						
Aroclor-1016 (PCB-1016)	0.912	0.0200	0.0500	ug/100cm2	1.00		91.2	50-150			
Aroclor-1260 (PCB-1260)	1.25	0.0200	0.0500	ug/100cm2	1.00		125	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0709</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>142</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0477</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>95.3</i>	<i>30-150</i>			
LCSD (B0I0479-BSD1)					Analyzed: 09/23/2020 10:04						
Aroclor-1016 (PCB-1016)	0.915	0.0200	0.0500	ug/100cm2	1.00		91.5	50-150	<1.00	40	
Aroclor-1260 (PCB-1260)	1.07	0.0200	0.0500	ug/100cm2	1.00		107	50-150	14.9	40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0566</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>113</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0417</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>83.5</i>	<i>30-150</i>			



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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

Qualifiers and Definitions

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference



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NV5	AETL Job Number: BBI0260	Site: MMHS
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	30215 Morning View Dr.
Long Beach, CA 90807	Project Manager: Jonathan Barkman	Malibu, CA 90265
	Project Name: Malibu High School	Reported: 09/23/2020 17:04

SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

APPENDIX C

Laboratory Results – Work Area Re-Occupancy Clearance Sampling



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September 14, 2020

AETL Job No: BBI0120
Received Date: 09/11/2020
Project Number: SMSD-20-9592

NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807
Telephone: (562) 495-5777

Attention: Jonathan Barkman

Project Name: Malibu High School
Site: Malibu High School, Bldg. H

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan
Project Manager

Approved By:

Corey Jones
Project Manager

Table of Contents

Client Project Name: Malibu High School (SMSD-20-9592)
Work Order Number: BBI0120

1 Cover Letter 1
2 Sample Condition on Receipt 3
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5 Case Narrative 6
6 Samples Received 7
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8 Analytical Results 12
9 Quality Control Results 24
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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Sample Condition on Receipt

Cooler ID: Default Cooler

Temperature: 4.0 °C

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y



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CHAIN OF CUSTODY RECORD

117974

AETL JOB No. B31Q120

Page 1 of 1

COMPANY AETL NVS
PROJECT MANAGER J. Barkman
COMPANY ADDRESS 3777 Henry Beach Blvd, Annes Beach, CA 91902
PHONE 562-495-5777
EMAIL jbarbman@annbeachca.com
PROJECT # SMSD-20-9592
PO # SMSD-20-9592
SITE NAME AND ADDRESS Malibu High School, 15105 H

SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.
H-CL0	BB10120.01	9/10/20	1446	Wipe	100cm ²	
H-CL1	BB10120.02	9/10/20	1445			
H-CL2	BB10120.03		1447			
H-CL3	BB10120.04		1450			
H-CL4	BB10120.05		1451			
H-CL5	BB10120.06		11057			
H-CL6	BB10120.07		1655			
H-CL7	BB10120.08		1650			
H-CL9	BB10120.09	9/10/20	1627	PUF	7,021.3L	
H-CL10	BB10120.10		1650		7,042.75L	
H-CL11	BB10120.11		1645		7,057.05L	
H-CL12	BB10120.12		1650		6,985.55L	
			1657			

ANALYSIS REQUESTED
 P-R-S TO-10A
 P-R-S 8082
 SORBIT 3540C

RELINQUISHED BY:
 1. Signature: [Signature] Printed Name: J. Barkman Date: 9/10/2020
 2. Signature: [Signature] Printed Name: [Signature] Date: 9/11/20 Time: 1045
 3. Signature: [Signature] Printed Name: [Signature] Date: 9/11/20 Time: 1045

TEST INSTRUCTIONS & COMMENTS
 7,021.3 L.kg
 7,042.75 L.kg
 7,057.05 L.kg
 6,985.55 L.kg

TOTAL NUMBER OF CONTAINERS: 12

BILLING INFORMATION / SPECIAL INSTRUCTIONS

TURN AROUND TIME
 NORMAL
 2 DAYS RUSH
 SAME DAY RUSH
 NEXT DAY RUSH
 3 DAYS RUSH
 4 DAYS RUSH

DATA DELIVERABLE REQUIRED
 HARD COPY
 E-COPY
 GEOTRACKER (GLOBAL ID)
 OTHER (PLEASE SPECIFY)

DISTRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator



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2834 N. NAOMI ST. BURBANK, CALIFORNIA 91504 ELAP# 1541 & 2402 LACSD# 10181
 TEL (888) 288-AETL (818) 845-8200 FAX (818) 845-8840 www.aetlab.com

COOLER RECEIPT FORM

Client Name: <i>NVS</i>			
Project Name:			
AETL Job Number: <i>BB10120</i>			
Date Received: <i>9/11/2020</i>		Received by: <i>Sargis Pireh</i>	
Carrier: <input type="checkbox"/> AETL Courier <input type="checkbox"/> Client <input type="checkbox"/> GSL <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> UPS			
<input type="checkbox"/> Others:			
Samples were received in: <input checked="" type="checkbox"/> Cooler (<i>1</i>) <input type="checkbox"/> Other (Specify):			
Inside temperature of shipping container No 1: <i>4°C</i> , No 2: _____, No 3: _____			
Type of sample containers: <input type="checkbox"/> VOA, <input type="checkbox"/> Glass bottles, <input type="checkbox"/> Wide mouth jars, <input type="checkbox"/> HDPE bottles, <input type="checkbox"/> Metal sleeves, <input type="checkbox"/> Others (Specify):			
How are samples preserved: <input type="checkbox"/> None, <input checked="" type="checkbox"/> Ice, <input type="checkbox"/> Blue Ice, <input type="checkbox"/> Dry Ice			
<input checked="" type="checkbox"/> None, <input type="checkbox"/> HNO ₃ , <input type="checkbox"/> NaOH, <input type="checkbox"/> ZnOAc, <input type="checkbox"/> HCl, <input type="checkbox"/> Na ₂ S ₂ O ₃ , <input type="checkbox"/> MeOH			
<input type="checkbox"/> Other (Specify):			
	Yes	No, explain below	Name, if client was notified.
1. Are the COCs Correct?	✓		
2. Are the Sample labels legible?	✓		
3. Do samples match the COC?	✓		
4. Are the required analyses clear?	✓		
5. Is there enough samples for required analysis?	✓		
6. Are samples sealed with evidence tape?	<i>N/A</i>		
7. Are sample containers in good condition?	✓		
8. Are samples preserved?	✓		
9. Are samples preserved properly for the intended analysis?	✓		
10. Are the VOAs free of headspace?	<i>N/A</i>		
11. Are the jars free of headspace?	✓		

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

Explain all "No" answers for above questions:



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

No analytical non-conformances were encountered.

Qualifiers are noted in the report.



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Samples Received

AETL received the following samples on 09/11/2020 with the following specifications

Project Name: Malibu High School, Bldg. H
 Site:

Client ID	Lab ID	Matrix	Sample Date
H-CL 0	BBI0120-01	Wipe	09/10/2020 14:46
			Quantity of Containers
			1
Analysis		Units	TAT
EPA 8082		ug/100cm2	1
<hr/>			
H-CL 1	BBI0120-02	Wipe	09/10/2020 14:45
			Quantity of Containers
			1
Analysis		Units	TAT
EPA 8082		ug/100cm2	1
<hr/>			
H-CL 2	BBI0120-03	Wipe	09/10/2020 14:47
			Quantity of Containers
			1
Analysis		Units	TAT
EPA 8082		ug/100cm2	1
<hr/>			
H-CL 3	BBI0120-04	Wipe	09/10/2020 14:50
			Quantity of Containers
			1
Analysis		Units	TAT
EPA 8082		ug/100cm2	1



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Samples Received (Continued)

AETL received the following samples on 09/11/2020 with the following specifications

Project Name: Malibu High School, Bldg. H
 Site:

Client ID H-CL 4		Sample Date 09/10/2020 14:51
Lab ID BBI0120-05	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID H-CL 5		Sample Date 09/10/2020 16:57
Lab ID BBI0120-06	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID H-CL 6		Sample Date 09/10/2020 16:55
Lab ID BBI0120-07	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1
Client ID H-CL 7		Sample Date 09/10/2020 16:56
Lab ID BBI0120-08	Matrix Wipe	Quantity of Containers 1
Analysis EPA 8082	Units ug/100cm2	TAT 1



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Samples Received (Continued)

AETL received the following samples on 09/11/2020 with the following specifications

Project Name: Malibu High School, Bldg. H
 Site:

Client ID		Sample Date
H-CL9		09/10/2020 16:27
Lab ID	Matrix	Quantity of Containers
BBI0120-09	Air	1
Analysis	Units	TAT
EPA TO-10A	ng/m ³	1
Client ID		Sample Date
H-CL10		09/10/2020 16:50
Lab ID	Matrix	Quantity of Containers
BBI0120-10	Air	1
Analysis	Units	TAT
EPA TO-10A	ng/m ³	1
Client ID		Sample Date
H-CL11		09/10/2020 16:45
Lab ID	Matrix	Quantity of Containers
BBI0120-11	Air	1
Analysis	Units	TAT
EPA TO-10A	ng/m ³	1
Client ID		Sample Date
H-CL12		09/10/2020 16:37
Lab ID	Matrix	Quantity of Containers
BBI0120-12	Air	1
Analysis	Units	TAT
EPA TO-10A	ng/m ³	1

Total Number of Samples received: 12



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Positive Hits Summary

Lab ID	Client ID				Received
BBI0120-01	H-CL 0				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.0709		ug/100cm2	09/14/2020 10:50
BBI0120-02	H-CL 1				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.0772		ug/100cm2	09/14/2020 11:11
BBI0120-03	H-CL 2				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.0256	J	ug/100cm2	09/14/2020 11:30
BBI0120-05	H-CL 4				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.0651		ug/100cm2	09/14/2020 12:10
BBI0120-06	H-CL 5				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.143		ug/100cm2	09/14/2020 14:35
BBI0120-08	H-CL 7				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	Aroclor-1254 (PCB-1254)	0.0416	J	ug/100cm2	09/14/2020 15:14
BBI0120-12	H-CL12				09/11/2020 10:45
Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	Aroclor-1254 (PCB-1254)	12.6	J	ng/m ³	09/14/2020 17:32



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Positive Hits Summary (Continued)



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 0

Lab ID: BBI0120-01 (Wipe)

Sampled: 09/10/20 14:46

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0709		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	123%						09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
Surrogate: Tetrachloro-m-xylene	64.8%						09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C

Acceptance Criteria

							30-150	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C
							30-150	09/11/20 12:00	09/14/20 10:50	B0I0238	ATS	3540C



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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Analytical Results

Client ID: H-CL 1

Lab ID: BBI0120-02 (Wipe)

Sampled: 09/10/20 14:45

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0772		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:11	B0I0238	ATS	3540C

Recovery

Acceptance Criteria

<i>Surrogate: Decachlorobiphenyl</i>	<i>80.1%</i>				<i>30-150</i>		<i>09/11/20 12:00</i>	<i>09/14/20 11:11</i>	<i>B0I0238</i>	<i>ATS</i>	<i>3540C</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>69.7%</i>				<i>30-150</i>		<i>09/11/20 12:00</i>	<i>09/14/20 11:11</i>	<i>B0I0238</i>	<i>ATS</i>	<i>3540C</i>



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 2

Lab ID: BBI0120-03 (Wipe)

Sampled: 09/10/20 14:47

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0256	J	1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Recovery			Acceptance Criteria								
Surrogate: Decachlorobiphenyl	66.4%						09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C
Surrogate: Tetrachloro-m-xylene	64.4%						09/11/20 12:00	09/14/20 11:30	B0I0238	ATS	3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 3

Lab ID: BBI0120-04 (Wipe)

Sampled: 09/10/20 14:50

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	92.5%						09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C
Surrogate: Tetrachloro-m-xylene	74.2%						09/11/20 12:00	09/14/20 11:50	B0I0238	ATS	3540C

Acceptance Criteria

							30-150	09/11/20 12:00			
							30-150	09/11/20 12:00			



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 4

Lab ID: BBI0120-05 (Wipe)

Sampled: 09/10/20 14:51

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0651		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	72.5%			30-150	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C		
Surrogate: Tetrachloro-m-xylene	68.8%			30-150	09/11/20 12:00	09/14/20 12:10	B0I0238	ATS	3540C		



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 5

Lab ID: BBI0120-06 (Wipe)

Sampled: 09/10/20 16:57

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	0.143		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl	83.5%						09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C
Surrogate: Tetrachloro-m-xylene	93.8%						09/11/20 12:00	09/14/20 14:35	B0I0238	ATS	3540C

Acceptance Criteria

							30-150	09/11/20 12:00			
							30-150	09/11/20 12:00			



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 6

Lab ID: BBI0120-07 (Wipe)

Sampled: 09/10/20 16:55

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
			Recovery		Acceptance Criteria						
Surrogate: Decachlorobiphenyl	72.7%				30-150		09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C
Surrogate: Tetrachloro-m-xylene	78.1%				30-150		09/11/20 12:00	09/14/20 14:54	B0I0238	ATS	3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL 7

Lab ID: BBI0120-08 (Wipe)

Sampled: 09/10/20 16:56

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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PCBs

Method: EPA 8082

Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0416	J	1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	09/11/20 12:00	09/14/20 15:14	B0I0238	ATS	3540C

Recovery

Surrogate: Decachlorobiphenyl 97.9%
 Surrogate: Tetrachloro-m-xylene 88.0%

Acceptance Criteria

30-150 09/11/20 12:00 09/14/20 15:14 B0I0238 ATS 3540C
 30-150 09/11/20 12:00 09/14/20 15:14 B0I0238 ATS 3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL9

Lab ID: BBI0120-09 (Air)

Sampled: 09/10/20 16:27

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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Semivolatile Organic Compounds

Method: EPA TO-10A

Aroclor-1016 (PCB-1016)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.12	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Recovery		Acceptance Criteria									
Surrogate: Decachlorobiphenyl	%				30-150		09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C
Surrogate: Tetrachloro-m-xylene	%				30-150		09/11/20 13:00	09/14/20 16:32	B010239	ATS	3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL10

Lab ID: BBI0120-10 (Air)

Sampled: 09/10/20 16:50

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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Semivolatile Organic Compounds

Method: EPA TO-10A

Aroclor-1016 (PCB-1016)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.10	14.2	ng/m ³	09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C

	Recovery			Acceptance Criteria							
Surrogate: Decachlorobiphenyl	%						09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C
Surrogate: Tetrachloro-m-xylene	%						09/11/20 13:00	09/14/20 16:52	B010239	ATS	3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL11

Lab ID: BBI0120-11 (Air)

Sampled: 09/10/20 16:45

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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Semivolatile Organic Compounds

Method: EPA TO-10A

Aroclor-1016 (PCB-1016)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.09	14.2	ng/m ³	09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C

	Recovery			Acceptance Criteria							
Surrogate: Decachlorobiphenyl	%						09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C
Surrogate: Tetrachloro-m-xylene	%						09/11/20 13:00	09/14/20 17:12	B010239	ATS	3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Analytical Results

Client ID: H-CL12

Lab ID: BBI0120-12 (Air)

Sampled: 09/10/20 16:37

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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Semivolatile Organic Compounds

Method: EPA TO-10A

Aroclor-1016 (PCB-1016)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1254 (PCB-1254)	12.6	J	1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.16	14.3	ng/m ³	09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Recovery			Acceptance Criteria								
Surrogate: Decachlorobiphenyl	%				30-150		09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C
Surrogate: Tetrachloro-m-xylene	%				30-150		09/11/20 13:00	09/14/20 17:32	B010239	ATS	3540C



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Quality Control Results

Semivolatile Organic Compounds (EPA TO-10A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0239 - 3540C					Prepared: 09/11/2020 13:00						
Method Blank (B0I0239-BLK1)					Analyzed: 09/14/2020 16:13						
Aroclor-1016 (PCB-1016)	ND	6.94	13.9	ng/m ³							
Aroclor-1221 (PCB-1221)	ND	6.94	13.9	ng/m ³							
Aroclor-1232 (PCB-1232)	ND	6.94	13.9	ng/m ³							
Aroclor-1242 (PCB-1242)	ND	6.94	13.9	ng/m ³							
Aroclor-1248 (PCB-1248)	ND	6.94	13.9	ng/m ³							
Aroclor-1254 (PCB-1254)	ND	6.94	13.9	ng/m ³							
Aroclor-1260 (PCB-1260)	ND	6.94	13.9	ng/m ³							
Aroclor-1262 (PCB-1262)	ND	6.94	13.9	ng/m ³							
Aroclor-1268 (PCB-1268)	ND	6.94	13.9	ng/m ³							
Surrogate: Decachlorobiphenyl	6.62			ng/m ³	0.00			30-150			
Surrogate: Tetrachloro-m-xylene	4.97			ng/m ³	0.00			30-150			



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Quality Control Results

Semivolatile Organic Compounds (EPA TO-10A)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0239 - 3540C (Continued)					Prepared: 09/11/2020 13:00						
LCS (B0I0239-BS1)					Analyzed: 09/14/2020 15:34						
Aroclor-1016 (PCB-1016)	171	6.94	13.9	ng/m ³	0.00			40-140			
Aroclor-1260 (PCB-1260)	113	6.94	13.9	ng/m ³	0.00			40-140			
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Surrogate: Decachlorobiphenyl	9.92			ng/m ³	0.00			30-150			
Surrogate: Tetrachloro-m-xylene	5.10			ng/m ³	0.00			30-150			
<hr/>					Analyzed: 09/14/2020 15:53						
LCSD (B0I0239-BSD1)											
Aroclor-1016 (PCB-1016)	128	6.94	13.9	ng/m ³	0.00			40-140	28.8	40	
Aroclor-1260 (PCB-1260)	120	6.94	13.9	ng/m ³	0.00			40-140	6.66	40	
<hr/>											
Surrogate: Decachlorobiphenyl	6.31			ng/m ³	0.00			30-150			
Surrogate: Tetrachloro-m-xylene	8.22			ng/m ³	0.00			30-150			



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0238 - 3540C											
Method Blank (B0I0238-BLK1)											
Aroclor-1016 (PCB-1016)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1221 (PCB-1221)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1232 (PCB-1232)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1242 (PCB-1242)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1248 (PCB-1248)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1254 (PCB-1254)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1260 (PCB-1260)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1262 (PCB-1262)	ND	0.0200	0.0500	ug/100cm2							
Aroclor-1268 (PCB-1268)	ND	0.0200	0.0500	ug/100cm2							
<hr/>											
Surrogate: Decachlorobiphenyl	0.0424			ug/100cm2	0.0500		84.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.0265			ug/100cm2	0.0500		53.0	30-150			



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Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0I0238 - 3540C (Continued)					Prepared: 09/11/2020 12:00						
LCS (B0I0238-BS1)					Analyzed: 09/14/2020 09:52						
Aroclor-1016 (PCB-1016)	0.715	0.0200	0.0500	ug/100cm2	1.00		71.5	50-150			
Aroclor-1260 (PCB-1260)	0.945	0.0200	0.0500	ug/100cm2	1.00		94.5	50-150			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0454</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>90.9</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0330</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>66.1</i>	<i>30-150</i>			
LCSD (B0I0238-BSD1)					Analyzed: 09/14/2020 10:11						
Aroclor-1016 (PCB-1016)	0.752	0.0200	0.0500	ug/100cm2	1.00		75.2	50-150	5.04	40	
Aroclor-1260 (PCB-1260)	0.973	0.0200	0.0500	ug/100cm2	1.00		97.3	50-150	2.97	40	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.0402</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>80.4</i>	<i>30-150</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.0471</i>			<i>ug/100cm2</i>	<i>0.0500</i>		<i>94.1</i>	<i>30-150</i>			



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NV5	AETL Job Number: BBI0120	Site: Malibu High School, Bldg. H
3777 Long Beach Boulevard, Annex Building	Project Number: SMSD-20-9592	
Long Beach, CA 90807	Project Manager: Jonathan Barkman	
	Project Name: Malibu High School	Reported: 09/14/2020 17:38

Qualifiers and Definitions

Item	Qualifiers
J	Analyte was detected. However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Reporting Limit (RL).

Item	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GRO	Gasoline Range Organics
HC	Hydrocarbon
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m ³	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
OSHA	Occupational Safety and Health Administration



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NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: BBI0120 Project Number: SMSD-20-9592 Project Manager: Jonathan Barkman Project Name: Malibu High School	Site: Malibu High School, Bldg. H Reported: 09/14/2020 17:38
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PCB	Polychlorinated Biphenyl
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalent to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction