PCB REMOVAL/REMEDIATION PROJECT RECORD
Malibu High School – Buildings H and J
May 6, 2021

Prepared For:

Santa Monica Malibu Unified School District
Carey Upton
2828 4th Street
Santa Monica, California 90405

NV5 – Alta Environmental
3777 Long Beach Blvd. Annex Building
Long Beach, CA 90807
Phone: 800.777.0605

444720-0009592.01

EXECUTIVE SUMMARY

At the request of the Santa Monica-Malibu Unified School District (District), Alta Environmental DBA NV5 (NV5) conducted monitoring services during the removal of polychlorinated biphenyl (PCB) impacted building materials (caulking) from Building H Rooms 605A, 606A, and 608 and Building J Rooms 700H, 704A, 704, and 705 within Malibu High School, located at 30215 Morning Drive, Malibu, California 90265. 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.

During this project, all identified PCB Bulk Product Waste (door and window caulking) was removed by the District's removal contractor, Miller Environmental (Miller). Following the removal of identified PCB containing materials, NV5 conducted initial post-removal surface wipe sampling prior to removal of the work area containment. The results of the initial wipe samples were reported below the USEPA Region IX health-based benchmark.

Following receipt of acceptable initial wipe sample results, the work area containments were removed. Final confirmation surface wipe and air samples were collected following restoration of the work areas and prior to re-occupancy. The results of this sampling met the USEPA re-occupancy criteria.

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APPENDICES

1.0 PROJECT BACKGROUND

Previous investigations have identified polychlorinated biphenyl (PCB) impacted building materials within select areas of Building H and Building J at Malibu Middle and High School, located at 30215 Morning Drive, Malibu, California (Site). This report details monitoring services performed at the request of the Santa Monica-Malibu Unified School District (District), by Alta Environmental DBA NV5 (NV5) during the removal of door and window caulking materials containing polychlorinated biphenyls (PCBs) from Building H Rooms 605A, 606A, and 608 and from Building J Vestibules 700H and 704A and Rooms 704 and 705. The removal work was performed by the District's removal contractor, Miller Environmental (Miller or Contractor).

Appendix A provides figures detailing the locations of removed building materials.

2.0 NV5 PROJECT SCOPE OF SERVICES

NV5 provided the following services during the removal/remediation:

- Contractor observation to document project activities, including the Contractor's adherence to the requirements of NV5's *PCB Removal and Remediation Procedures* dated May 1, 2020 (herein identified as the "Work Plan");
- Final visual inspection confirming that applicable PCB materials and associated dust and debris was removed;
- Initial post-removal wipe sampling; and
- Final pre-occupancy surface wipe sampling and air sampling.

3.0 CONTRACTOR PERFORMED REMOVAL ACTIVITIES

An overview of removal and abatement activities performed by Miller, is provided in the following sections. All PCB removal activities and waste segregation, storage, and disposal were conducted in accordance with the Work Plan.

3.1 REGULATED WORK AREA

Regulated work areas were established at each of the PCB removal locations in Building H and Building J prior to the beginning of remediation activities. Physical barriers and warning signs were installed at the work area perimeters to limit access to authorized persons conducting or monitoring the remediation work. The PCB removal areas were further isolated by installing additional containment systems consisting of critical and perimeter barriers constructed with fire retardant polyethylene sheeting.

3.2 ENGINEERING CONTROLS

The PCB removal area containment systems were constructed to minimize the potential for airborne dust to migrate outside the regulated work areas. Negative air pressures were established within

each containment using high-efficiency particulate air (HEPA) filtering fan units to maintain a minimum air pressure differential of -0.02 inches/water column. The containment area pressure differential was continuously monitored during PCB removal activities using a data-logging manometer. Additional engineering controls include the use of HEPA filter-equipped vacuums within the containment systems to collect dust generated during the remediation activities.

3.3 BUILDING H

Previous investigations of Building H have identified concentrations of PCBs greater than 50 ppm in wall joint caulking associated with interior doorways and windows at Rooms 605A, 606A and 608. In addition, PCB impacts greater than 1 ppm have also been identified in the porous substrates adjoining these building components to a lateral distance of 16 inches.

3.3.1 Door and Window Caulking

Miller removed the door assembly leading to Room 606A (Staff Restroom), the door and window assemblies associated with Room 605A (Cafeteria Office), the door assembly leading to Room 608 (Storage), and all adjoining porous substrate to a minimum distance of 16 inches from the door and window assemblies utilizing hand tools. 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, confirmation sampling was conducted. Following review of the laboratory results, the work area containment was removed to facilitate build-back using new building materials. Additional details of the post-remediation confirmation sampling are discussed in Section 3.5.

3.4 BUILDING J

Previous investigations of Building J have identified concentrations of PCBs greater than 50 ppm in wall joint caulking associated with exterior doorways at Vestibules 700A and 704A and with interior doorways at Rooms 704 and 705. It should be noted, however, that samples collected from porous wall materials adjoining these doorways did not exhibit PCB concentrations above 1 ppm and therefore did not require remediation.

3.4.1 Door Caulking

Miller removed each door assembly and all visible caulking material from the adjoining porous substrate in a staged process, with the interior doorways completed first (Rooms 704, 705) and the exterior doorways completed thereafter (Rooms 704A, 700H). All doorway assembly components, including associated PCB-impacted caulking, were fully removed, packaged, and properly disposed as Bulk Product Waste.

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 clearance wipe samples. Upon notification of acceptable laboratory results, the work area containments were removed to facilitate build-back. Additional

details of the post-remediation confirmation sampling and build-back activities are discussed in Section 3.5.

3.5 POST REMEDIATION CONTAINMENT INSPECTION AND CLEARANCE WIPE SAMPLING

Following the removal of identified PCB containing materials, NV5 and Miller staff conducted a visual inspection of all containment areas. After the containment areas were deemed acceptable, post-removal surface wipe sampling was conducted prior to removal of the work area containments.

The wipe samples were collected on a hexane-wetted gauze pad using the Standard Wipe Test method described in 40 CFR 761.123. Following collection, the post-remediation wipe samples (including blanks) were submitted to American Environmental Testing Laboratory, a California-accredited environmental testing laboratory, for analysis. All surface wipe samples were prepared for analysis by the laboratory using EPA Method 3540 (Soxhlet extraction) and analyzed for PCBs using EPA Method 8082.

Appendix B presents a tabulated overview of the sample results and Appendix C presents copies of the laboratory reports.

3.5.1 Building H

On July 21, 2020, six surface wipe samples and one blank wipe sample were collected from the floor of the containment systems for Rooms 605A, 606, 606A and 608.

Upon notification by the laboratory that the wipe samples contained PCB concentrations below the EPA Region IX health-based benchmark of 1.0 microgram (µg) per 100 square centimeters (cm^2), the Contractor was authorized to remove the containment systems and begin build-back of removed components using new building materials (doorways, windows, wall coverings, etc).

3.5.2 Building J

On July 31, 2020, five (5) surface wipe samples and one blank sample were collected from the Room 704 and 705 interior doorway containment area floors. Upon notification by the laboratory that the wipe sample PCB concentrations were reported below 1µg/100cm^2, the Contractor was authorized to remove the containment systems and install new door assemblies.

On August 14, 2020, a total of four (4) surface wipe samples and one blank sample were collected from the exterior doorway containments for vestibules 700H and 704A. Following laboratory notification that the wipe sample PCB concentrations were reported below 1µg/100cm^2, the Contractor was authorized to remove the containment systems and install new door assemblies.

3.6 CONFIRMATION AIR AND WIPE SAMPLING PRIOR TO RE-OCCUPANCY

Following the completion of build-back activities and prior to re-occupancy, NV5 collected surface wipe and air confirmation samples from the PCB removal work areas within Building H. In accordance with the Plan, re-occupancy confirmation air and wipe sampling was not required for

Building J due to all interior PCB removal locations being removed from service and isolated from future use.

3.6.1 Wipe Sampling

On September 11, 2020, a total of eight surface wipe samples and one blank sample were collected from the floor of the work areas for Rooms 605A, 606, 606A and 608. Each confirmation wipe sample was collected on laboratory supplied gauze pads or similar sampling media in general accordance with the Standard Wipe Test described in 40 CFR 761.123.

As presented in Appendix B, all re-occupancy confirmation samples were reported below the EPA Region IX heath-based benchmark of 1.0µg/100cm^2

3.6.2 Air Sampling

On September 11, 2020, three primary air samples were collected from the Room 605A, 606, 606A and 608 work areas. In addition, one ambient air sample was collected outside of the building to assess background concentrations of PCBs in air.

Each confirmation air sample was collected utilizing a calibrated pump to draw air through laboratory- supplied polyurethane foam cartridges at a flow rate of approximately 5 liters per minute, for approximately 24 hours. The air samples were collected at breathing zone height and without the use of pre-filters.

As presented in Appendix B, all re-occupancy confirmation samples were reported below the EPA evaluation criteria for the air samples. For reference, the following table presents USEPA's criteria for evaluating exposure levels in indoor air at school sites for children within the following age ranges:

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

4.0 WORKER PROTECTION

Personal protective equipment utilized by workers engaged in the PCB remediation activities included NIOSH-approved half-face air-purifying respirators with HEPA (P100) cartridges, disposable non-porous protective overalls, and eye, hand, foot and hearing protection devices.

5.0 WORKER DECONTAMINATION

A three-stage worker decontamination unit, integral to each work area containment, was placed at the entrance to the regulated work area and included a "dirty" room, shower room and a clean room. The decontamination facility was equipped with soap and towels.

6.0 EQUIPMENT DECONTAMINATION

Equipment used for PCB removal/remediation was wet-wiped and vacuumed with HEPA-equipped vacuums and visually inspected prior to removal from the work areas. In addition, the HEPA filters from all equipment, vacuums and negative air blowers were removed inside each containment, and the interior of the unit (filter compartment) was wet-wiped prior to removal from the containment systems. Following decontamination, all equipment, including tools, vacuums, and air filtration devices were visually inspected prior to removal from the work areas.

7.0 QUALITY CONTROL

Sample collection and analytical methodology used to complete this project were completed according to the Work Plan. All samples collected during this project were analyzed by a certified and accredited laboratory. NV5 reviewed all laboratory data for quality and usability in accordance with appropriate USEPA protocols. Based on a review of the laboratory QC data associated with the sample analysis, the recovery and precision are within the acceptable limits of the laboratory.

8.0 WASTE MANAGEMENT AND DISPOSAL

Waste generated as a result of the project activities was properly packaged, labeled and disposed of as PCB Bulk Product Waste, in accordance with the Work Plan and with 40 CFR 761.62. The PCB Bulk Product Waste was transported by BDC Special Waste Services, a California certified waste transporter. The waste was disposed at US Ecology, located at Hwy 95, 11 miles south of Beatty, Nevada.

9.0 PROJECT SUMMARY

PCB-related work completed during this project was done so in accordance with the Work Plan. Visual inspections confirmed that materials designated for removal were removed and that no visible dust or debris resulting from the removal activities remained in the work area.

Following the removal/remediation work, confirmation surface wipe and air samples were collected. Laboratory results of the surface wipe samples, and the air samples were reported below the level of clearance established for this project.

10.0 DISCLAIMER

This report was prepared exclusively for use by the Santa Monica-Malibu Unified School District and may not be relied upon by any other person or entity without NV5 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. NV5 cannot be responsible for the impact of any changes in environmental standards, practices or regulations after performance of services.

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

As applicable, NV5 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, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

NV5 will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. NV5 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 the Santa Monica-Malibu Unified School District.

11.0 SIGNATORY

Submitted for and on behalf of NV5.

Prepared by:
NV5

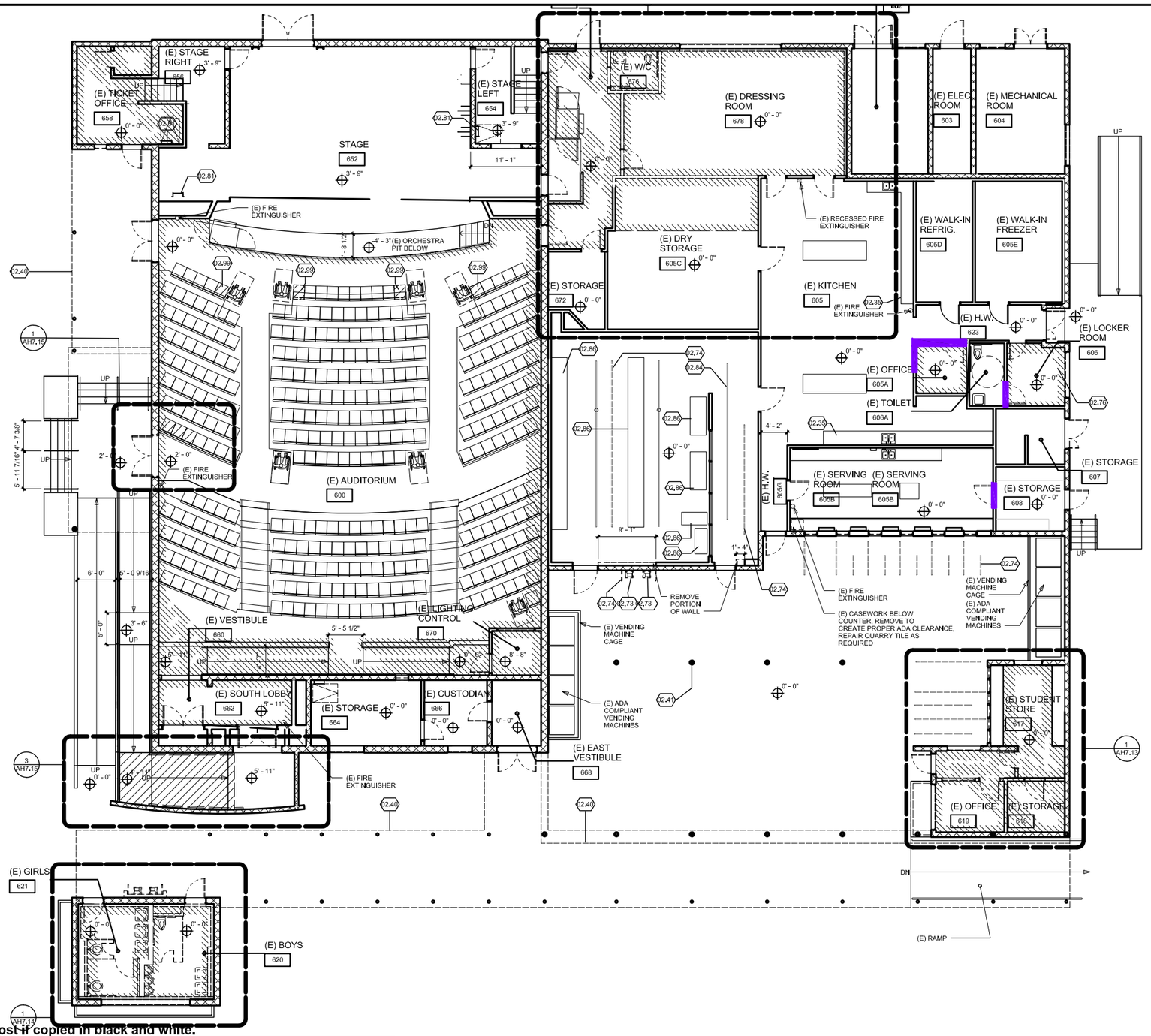
Jonathan Barker
Project Manager

Reviewed by:
NV5

David R. Schack
Vice President, Building Sciences

APPENDIX A

PCB Removal Locations



This figure was created in color. Significant information may be lost if copied in black and white.

Legend

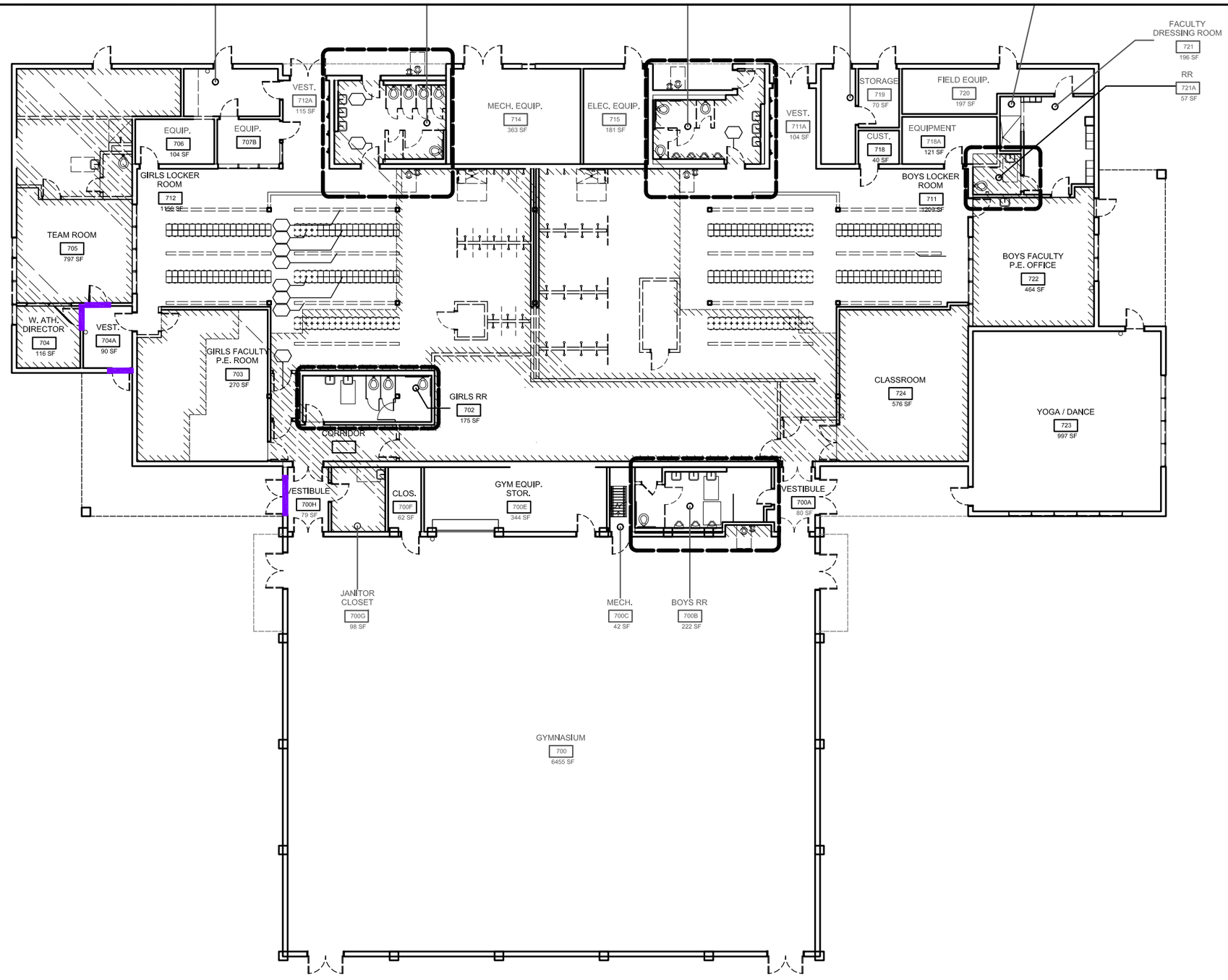
PCB Removal Areas

Scope of Work - Building H PCB Removal

Malibu High School
30215 Morning View Drive
Malibu, California

NV5
ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
P: (562) 495-5777 ◆ F: (562) 495-5877 ◆ www.altaenviron.com

Project No.: SMSD-20-9592



This figure was created in color. Significant information may be lost if copied in black and white.

Legend

PCB Removal Areas

Scope of Work - Building J PCB Removal

Malibu High School
30215 Morning View Drive
Malibu, California

N

ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
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Project No.: SMSD-20-9592

APPENDIX B

Post-Removal and Clearance Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-20-9592
PROJECT: MMHS Demolition Monitoring

Building	Floor Plan ID	Sample Location	Component Description	Sampling Date	Sample ID	Total PCBs (µg/100cm^2)
H	608	Storage Room North	Containment Floor	7/21/2020	H0721-1	ND
H	608	Storage Room South	Containment Floor	7/21/2020	H0721-2	ND
H	606A	Staff Restroom North	Containment Floor	7/21/2020	H0721-3	ND
H	606A	Staff Restroom South	Containment Floor	7/21/2020	H0721-4	ND
H	605A	Kitchen Office North	Containment Floor	7/21/2020	H0721-5	ND
H	605A	Kitchen Office South	Containment Floor	7/21/2020	H0721-6	ND
Field Blank				7/21/2020	H0721-7	ND
J	705	East	Containment Floor	7/31/2020	J073120-1	ND
J	Vestibule 704/705	West	Containment Floor	7/31/2020	J073120-2	ND
J	704	South	Containment Floor	7/31/2020	J073120-3	ND
J	Vestibule 704/705	North	Containment Floor	7/31/2020	J073120-4	ND
Field Blank				7/31/2020	J073120-5	ND
J	Vestibule 704/704	Interior South center	Containment Floor	8/14/2020	J814-1	ND
J	Vestibule 704/705	Exterior north center	Containment Floor	8/14/2020	J814-2	ND
J	700H	Interior west center	Containment Floor	8/14/2020	J814-3	ND
J	700H	Exterior west center	Containment Floor	8/14/2020	J814-4	ND
Field Blank				8/14/2020	J814-5	ND

Notes:

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

Summary of Malibu High School Re-Occupancy Surface Wipe Sampling Results

CLIENT: SMMUSD
PROJECT NO: SMSD-20-9592
PROJECT: MMHS Demolition Monitoring

Building	Floor Plan ID	Sample Location	Component Description	Sampling Date	Sample ID	Total PCBs (µg/100cm^2)
H	606	Locker room southwest corner	Floor	9/11/2020	H-CL0	0.0709
H	606	Locker room southwest corner	Floor	9/11/2020	H-CL1	0.0772
H	606A	Staff Restroom southeast corner	Floor	9/11/2020	H-CL2	0.0256J
H	605A	Office north center	Floor	9/11/2020	H-CL3	ND
H	Vestibule	Outside of 605A	Floor	9/11/2020	H-CL4	0.0651
H	608	Storage east center	Floor	9/11/2020	H-CL5	0.0143
H	605B	Serving room southeast	Floor	9/11/2020	H-CL6	ND
H	605B	Serving room	Floor	9/11/2020	H-CL7	0.0416J
Field Blank				9/12/2020	H-CL9	ND

Notes:

µg/100cm^2 = microgram per 100 square centimeters

PCB = polychlorinated biphenyl

J = A"J-flag" designation indicates that the reported concentration was detected above the method detection limit, but below the laboratory's practical quantitative limit

Summary of Malibu High School Re-Occupancy Air Sampling Results

CLIENT: SMMUSD
PROJECT SMSD-20-9592
PROJECT: MMHS Demolition Monitoring

Building	Room Placard ID	Room Description	Sampling Date[a]	Sample ID	Total PCBs (ng/m^3)
H	Outside Ambient Sample		9/10/2020	H-CL-9	ND
H	605B	Serving Room	9/10/2020	H-CL-10	ND
H	605A	Kitchen Office	9/10/2020	H-CL-11	ND
H	606A	Staff Restroom	9/10/2020	H-CL-12	12.6J

Notes:

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

Abbreviations:

ng/m^3 = nanograms per cubic meter

ND = compound was analyzed for but not detected above the laboratory reporting limit

NA = Not Applicable

J = A"J-flag" designation indicates that the reported concentration was detected above the method detection limit, but below the laboratory's practical quantitative limit

APPENDIX C

Laboratory Reports

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

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

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

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

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

BBG0178

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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

A KYZER LABS COMPANY

CHAIN OF CUSTODY RECORD

AETL JOB No. 105485 120169

Page 1 of 1

COMPANY: NVS-Alta Environmental
PROJECT MANAGER: Jonathan Barkman
COMPANY ADDRESS: 3777 Long Beach Blvd. Annex, Long Beach
PHONE: 310-920-8404
EMAIL: Jonathan.Barkman@NVS.com
PROJECT NAME: Malibu High School
PROJECT #: SMSD-20-9592
SITE NAME AND ADDRESS: 30215 Morning View Dr. Malibu, CA
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	PCB EPA 8082	Soxhelt Extraction	TEST INSTRUCTIONS & COMMENTS
1	H0721-1	105485.01	072120	1330	AV WIPE	1 4oz Jar	ICE	X	X	
2	H0721-2	105485.02		1336	WIPE			X	X	
3	H0721-3	105485.03		1340	WIPE			X	X	
4	H0721-4	105485.04		1343	WIPE			X	X	
5	H0721-5	105485.05		1345	WIPE			X	X	
6	H0721-6	105485.06		1348	WIPE			X	X	
7	H0721-7	105485.07		1352	WIPE			X	X	
8										
9										
10										
11										
12										
13										
14										
15										

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 ☐ NEXT DAY RUSH
☐ 2 DAYS RUSH ☐ 3 DAYS RUSH ☐ 4 DAYS RUSH

DATA DELIVERABLE REQUIRED

☐ HARD COPY
☒ E-COPY
☐ GEOTRACKER (GLOBAL ID) _____
☐ OTHER (PLEASE SPECIFY) _____

	1.	2.	3.
RELINQUISHED BY:	SAMPLER:		
Signature:		Alondra Villan	
Printed Name:	Randy Flores	Alondra Villanvera	Carlos Garcia
Date:	7/21/20	072120	7.21.20
Time:	1500		16:40
RECEIVED BY:	1.	2.	3.
Signature:			
Printed Name:	Carlos Garcia		Sergio-P
Date:	7/21		7/21/20
Time:	15:00		1640

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

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
A KYZER LABS COMPANY

COOLER RECEIPT FORM

Client Name: NVS
Project Name:
AETL Job Number: 105485
Date Received: 7/21/2020 Received by: Sargis-P
Carrier: ☑ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☑ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.4°C, No 2: , No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☑ Ice , ☐ Blue Ice, ☐ Dry Ice
☐ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☒ Other (Specify): WIPS

	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:

_____

_____

_____

_____

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

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

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

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

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

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

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
Page: **4**

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 Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % 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 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

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

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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. BB10120

COMPANY: Attn NV5
PROJECT MANAGER: J. Barkman
COMPANY ADDRESS: 3777 Long Beach Blvd Annex Bldg
PHONE: 562-495-5777
EMAIL: jonathan.barkman@NV5.com
PROJECT NAME: Long Beach CA
PROJECT #: SMSD-20-9592
SITE NAME AND ADDRESS: Malibu High School Bldg H
PO #: SMSD-20-9592

#	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	Soxhlet 3540C	PCBs 8082	PCBs TO-10A	TEST INSTRUCTIONS & COMMENTS
1	H-CL0	BB10120-01 ~~9/10/20~~	9/10/20	1446	Wipe	100cm²		X	X		
2	H-CL1	BB10120-02	9/10/20	1445				X	X		
3	H-CL2	BB10120-03		1447				X	X		
4	H-CL3	BB10120-04		1450				X	X		
5	H-CL4	BB10120-05		1457				X	X		
6	H-CL5	BB10120-06		1657				X	X		
7	H-CL6	BB10120-07		1655				X	X		
8	H-CL7	BB10120-08		1656				X	X		
9	H-CL9	BB10120-09	9/10/20	1627	PUF	7,021.3L		X		X	7,021.3 Liters
10	H-CL10	BB10120-10		1650		7,042.75L		X		X	7,042.75 Liters
11	H-CL11	BB10120-11		1645		7,057.05L		X		X	7,057.05 Liters
12	H-CL12	BB10120-12		~~1650~~ 1637		6,985.55L		X		X	6,985.55 Liters
13											
14											
15											

TOTAL NUMBER OF CONTAINERS: 12

BILLING INFORMATION / SPECIAL INSTRUCTIONS

	1.	2.	3.
RELINQUISHED BY	SAMPLER: Signature: [signature] Printed Name: J. Barkman Date: 9/11/2020 Time:	Signature: Printed Name: Date: Time:	Signature: [signature] Printed Name: Jim Lin Date: 9/11/20 Time: 1045
RECEIVED BY	Signature: [signature] Printed Name: Jim Lin Date: 9/11/20 Time: 0945	Signature: Printed Name: Date: Time:	LABORATORY: Signature: Printed Name: Date: 9/11/20 Time: 1045

TURN AROUND TIME

☐ NORMAL ☐ SAME DAY RUSH ☒ NEXT DAY RUSH
☐ 2 DAYS 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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COOLER RECEIPT FORM

Client Name: NVS
Project Name:
AETL Job Number: BBL0120
Date Received: 9/11/2020 Received by: Sargis Pireh
Carrier: ☐ AETL Courier ☐ Client ☐ GSL ☑ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 4 °C, No 2: , No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☐ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☑ Ice , ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ 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?	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:	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

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	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

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		Sample Date
H-CL 0		09/10/2020 14:46
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-01	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID		Sample Date
H-CL 1		09/10/2020 14:45
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-02	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID		Sample Date
H-CL 2		09/10/2020 14:47
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-03	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID		Sample Date
H-CL 3		09/10/2020 14:50
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-04	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

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

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-CL 4		09/10/2020 14:51
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-05	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID		Sample Date
H-CL 5		09/10/2020 16:57
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-06	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID		Sample Date
H-CL 6		09/10/2020 16:55
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-07	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

Client ID		Sample Date
H-CL 7		09/10/2020 16:56
Lab ID	**Matrix**	**Quantity of Containers**
BBI0120-08	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	1

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

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/m³	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/m³	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/m³	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/m³	1

Total Number of Samples received: 12

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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

Positive Hits Summary

Lab ID **BBI0120-01** **Client ID** H-CL 0 **Received** 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**

Lab ID **BBI0120-02** **Client ID** H-CL 1 **Received** 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**

Lab ID **BBI0120-03** **Client ID** H-CL 2 **Received** 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**

Lab ID **BBI0120-05** **Client ID** H-CL 4 **Received** 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**

Lab ID **BBI0120-06** **Client ID** H-CL 5 **Received** 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**

Lab ID **BBI0120-08** **Client ID** H-CL 7 **Received** 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**

Lab ID **BBI0120-12** **Client ID** H-CL12 **Received** 09/11/2020 10:45

Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	**Aroclor-1254 (PCB-1254)**	**12.6**	**J**	**ng/m³**	**09/14/2020 17:32**

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

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
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				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*123%*				*30-150*		09/11/20 12:00	*09/14/20 10:50*	B0I0238	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*64.8%*				*30-150*		09/11/20 12:00	*09/14/20 10:50*	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 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
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						
Surrogate: Decachlorobiphenyl	*80.1%*				*30-150*		09/11/20 12:00	*09/14/20 11:11*	B0I0238	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*69.7%*				*30-150*		09/11/20 12:00	*09/14/20 11:11*	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 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
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%*				*30-150*		09/11/20 12:00	*09/14/20 11:30*	B0I0238	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*64.4%*				*30-150*		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**

PCBs

Method: EPA 8082

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*92.5%*				*30-150*		09/11/20 12:00	*09/14/20 11:50*	B0I0238	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*74.2%*				*30-150*		09/11/20 12:00	*09/14/20 11:50*	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 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
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
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				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*83.5%*				*30-150*		09/11/20 12:00	*09/14/20 14:35*	B0I0238	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*93.8%*				*30-150*		09/11/20 12:00	*09/14/20 14:35*	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 6**
Lab ID: **BBI0120-07 (Wipe)** **Sampled:** **09/10/20 16:55**

PCBs

Method: EPA 8082

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
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
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				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*97.9%*				*30-150*		09/11/20 12:00	*09/14/20 15:14*	B0I0238	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*88.0%*				*30-150*		09/11/20 12:00	*09/14/20 15:14*	B0I0238	*ATS*	3540C

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**

Semivolatile Organic Compounds

Method: EPA TO-10A

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Aroclor-1016 (PCB-1016)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.12	14.2	ng/m³	09/11/20 13:00	09/14/20 16:32	B0I0239	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*%*				*30-150*		09/11/20 13:00	*09/14/20 16:32*	B0I0239	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*%*				*30-150*		09/11/20 13:00	*09/14/20 16:32*	B0I0239	*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
Semivolatile Organic Compounds											
Method: EPA TO-10A											
Aroclor-1016 (PCB-1016)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.10	14.2	ng/m³	09/11/20 13:00	09/14/20 16:52	B0I0239	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*%*				*30-150*		09/11/20 13:00	*09/14/20 16:52*	B0I0239	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*%*				*30-150*		09/11/20 13:00	*09/14/20 16:52*	B0I0239	*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**

Semivolatile Organic Compounds

Method: EPA TO-10A

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Aroclor-1016 (PCB-1016)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.09	14.2	ng/m³	09/11/20 13:00	09/14/20 17:12	B0I0239	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*%*				*30-150*		09/11/20 13:00	*09/14/20 17:12*	B0I0239	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*%*				*30-150*		09/11/20 13:00	*09/14/20 17:12*	B0I0239	*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
Semivolatile Organic Compounds											
Method: EPA TO-10A											
Aroclor-1016 (PCB-1016)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1254 (PCB-1254)	**12.6**	J	1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	7.16	14.3	ng/m³	09/11/20 13:00	09/14/20 17:32	B0I0239	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*%*				*30-150*		09/11/20 13:00	*09/14/20 17:32*	B0I0239	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*%*				*30-150*		09/11/20 13:00	*09/14/20 17:32*	B0I0239	*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/m³							
Aroclor-1221 (PCB-1221)	ND	6.94	13.9	ng/m³							
Aroclor-1232 (PCB-1232)	ND	6.94	13.9	ng/m³							
Aroclor-1242 (PCB-1242)	ND	6.94	13.9	ng/m³							
Aroclor-1248 (PCB-1248)	ND	6.94	13.9	ng/m³							
Aroclor-1254 (PCB-1254)	ND	6.94	13.9	ng/m³							
Aroclor-1260 (PCB-1260)	ND	6.94	13.9	ng/m³							
Aroclor-1262 (PCB-1262)	ND	6.94	13.9	ng/m³							
Aroclor-1268 (PCB-1268)	ND	6.94	13.9	ng/m³							
Surrogate: Decachlorobiphenyl	*6.62*			*ng/m³*	*0.00*			*30-150*			
Surrogate: Tetrachloro-m-xylene	*4.97*			*ng/m³*	*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/m³	0.00			40-140			
Aroclor-1260 (PCB-1260)	113	6.94	13.9	ng/m³	0.00			40-140			
Surrogate: Decachlorobiphenyl	*9.92*			*ng/m³*	*0.00*			*30-150*			
Surrogate: Tetrachloro-m-xylene	*5.10*			*ng/m³*	*0.00*			*30-150*			
LCSD (B0I0239-BSD1)					**Analyzed: 09/14/2020 15:53**						
Aroclor-1016 (PCB-1016)	128	6.94	13.9	ng/m³	0.00			40-140	28.8	40	
Aroclor-1260 (PCB-1260)	120	6.94	13.9	ng/m³	0.00			40-140	6.66	40	
Surrogate: Decachlorobiphenyl	*6.31*			*ng/m³*	*0.00*			*30-150*			
Surrogate: Tetrachloro-m-xylene	*8.22*			*ng/m³*	*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					**Prepared: 09/11/2020 12:00**						
Method Blank (B0I0238-BLK1)					**Analyzed: 09/14/2020 10:31**						
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	*0.0424*			*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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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 (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			
Surrogate: Decachlorobiphenyl	*0.0454*			*ug/100cm2*	*0.0500*		*90.9*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0330*			*ug/100cm2*	*0.0500*		*66.1*	*30-150*			
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	
Surrogate: Decachlorobiphenyl	*0.0402*			*ug/100cm2*	*0.0500*		*80.4*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0471*			*ug/100cm2*	*0.0500*		*94.1*	*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

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/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

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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

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 equivalant 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

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August 04, 2020

AETL Job No: BBG0308
Project Number: SMSD-20-9592
Received Date: 07/31/2020

Jonathan Barkman
NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807

Project Name: Malibu High School

Site: Malibu High School
30215 Morning View Dr.
Malibu, CA

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

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: BBG0308

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 2.0 °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

119741

AETL JOB No. BBG0308

COMPANY: NV5 - Alta Environmental
PROJECT MANAGER: Dave Shack
COMPANY ADDRESS: 3777 Long Beach Blvd Annex Bldg, Long Beach
PHONE: 310.951.9482
EMAIL: David.Shack@nv5.com
PROJECT NAME: Malibu High School
PROJECT #: SMSD-20-9592
SITE NAME AND ADDRESS: 30215 Morning View Dr, Malibu ~~Canyon~~ Av.
PO #:

	SAMPLE ID	LAB ID	DATE	TIME	MATRIX	CONTAINER NUMBER/SIZE	PRES.	ANALYSIS REQUESTED: EPA 8082	ANALYSIS REQUESTED: Soxhlet Extraction	TEST INSTRUCTIONS & COMMENTS
1	I73020-1	BBG0308.01	7/30/20	1450	AIR	1	ICE	X	X	
2	I73020-2	BBG0308.02	7/30/20	1511	AIR	"	"	X	X	
3	WZ73020-1	BBG0308.03	7/30/20	1501	WIPE	"	"	X	X	
4	WZ73020-2	BBG0308.04	7/30/20	1505	"	"	"	X	X	
5	WZ73020-3	BBG0308.05	7/30/20	1520	"	"	"	X	X	
6	WZ73020-4	BBG0308.06	7/30/20	1530	"	"	"	X	X	
7	J073120-1	BBG0308.07	7/31/20	1430	"	"	"	X	X	
8	J073120-2	BBG0308.08	"	1435	"	"	"	X	X	
9	J073120-3	BBG0308.09	"	1440	"	"	"	X	X	
10	J073120-4	BBG0308.10	"	1445	"	"	"	X	X	
11	J073120-5	BBG0308.11	"	1450	"	"	"	X	X	
12	I73020-3	BBG0308.12	7/30/20	—	BLANK	1	ICE	X	X	
13										
14										
15										

TOTAL NUMBER OF CONTAINERS: 12

BILLING INFORMATION / SPECIAL INSTRUCTIONS

cc: Dave Shack

RELINQUISHED BY SAMPLER: 1.	RELINQUISHED BY: 2.	RELINQUISHED BY: 3.
Signature:	Signature: Alondra Villanueva	Signature:
Printed Name: RANDY FLORES	Printed Name: Alondra Villanueva	Printed Name:
Date: 7-31-20 Time: 1530	Date: 073120 Time: 1530	Date: 7/31/20 Time: 1718
RECEIVED BY: 1.	**RECEIVED BY: 2.**	**RECEIVED BY LABORATORY: 3.**
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Sanjis-Pirak
Date: Time:	Date: 7/31/20 Time: 1530	Date: 7/31/20 Time: 1718

TURN AROUND TIME

- ☐ NORMAL
- ☐ SAME DAY RUSH
- ☑ NEXT DAY RUSH
- ☐ 2 DAYS 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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COOLER RECEIPT FORM

Client Name: NVS
Project Name:
AETL Job Number: BBG0308
Date Received: 7/31/20 Received by: Sanjis- Pirah
Carrier: ☑ AETL Courier ☐ Client ☐ GSO ☐ FedEx ☐ UPS
☐ Others:

Samples were received in: ☒ Cooler (1) ☐ Other (Specify):
Inside temperature of shipping container No 1: 3.0 °C, No 2: , No 3:
Type of sample containers: ☐ VOA, ☐ Glass bottles, ☑ Wide mouth jars, ☐ HDPE bottles, ☐ Metal sleeves, ☐ Others (Specify):
How are samples preserved: ☐ None, ☑ Ice , ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH
☐ 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?	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:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Samples Received

AETL received the following samples on 07/31/2020 with the following specifications

Project Name: Malibu High School
Site: 30215 Morning View Dr.
Malibu, CA

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-01	I73020-1	07/30/20 14:50	Air	1

Analysis	Units	TAT
EPA TO-10A	ng/m³	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-02	I73020-2	07/30/20 15:11	Air	1

Analysis	Units	TAT
EPA TO-10A	ng/m³	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-03	WZ73020-1	07/30/20 15:01	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-04	WZ73020-2	07/30/20 15:05	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-05	WZ73020-3	07/30/20 15:20	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-06	WZ73020-4	07/30/20 15:30	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

NV5 3777 Long Beach Boulevard, Annex Building Long Beach, CA 90807	AETL Job Number: Project Number: Project Manager: Project Name:	BBG0308 SMSD-20-9592 Jonathan Barkman Malibu High School	Site: Reported:	Malibu High School 30215 Morning View Dr. Malibu, CA 08/04/2020 15:01

Samples Received
(Continued)

AETL received the following samples on 07/31/2020 with the following specifications

Project Name: Malibu High School
Site: 30215 Morning View Dr.
Malibu, CA

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-07	J073120-1	07/31/20 14:30	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-08	J073120-2	07/31/20 14:35	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-09	J073120-3	07/31/20 14:40	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-10	J073120-4	07/31/20 14:45	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-11	J073120-5	07/31/20 14:50	Wipe	1

Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Lab ID	Client ID	Sample Date	Matrix	Quantity of Containers
BBG0308-12	I73020-3	07/30/20 14:50	Air	1

Analysis	Units	TAT
EPA TO-10A	ng/m³	5

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School
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
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01

Total Number of Samples received: **12**

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Positive Hits Summary

Lab ID **BBG0308-01** **Client ID** I73020-1 Received: 07/31/2020 17:18

Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA TO-10A	**Aroclor-1254 (PCB-1254)**	**30.9**		**ng/m³**	**08/03/2020 09:37**

Lab ID **BBG0308-04** **Client ID** WZ73020-2 Received: 07/31/2020 17:18

Method	Analyte	Result	Qualifier	Unit	Analyzed
EPA 8082	**Aroclor-1254 (PCB-1254)**	**0.0366**	**J**	**ug/100cm2**	**08/03/2020 11:21**

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: I73020-1

Lab ID: BBG0308-01 (Air)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Semivolatile Organic Compounds											
Method: EPA TO-10A											
Aroclor-1016 (PCB-1016)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1254 (PCB-1254)	**30.9**		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:37	B0H0008	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*66.3%*				*30-150*		07/31/20 18:00	*08/03/20 09:37*	B0H0008	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*43.3%*				*30-150*		07/31/20 18:00	*08/03/20 09:37*	B0H0008	*ATS*	3540C

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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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: I73020-2

Lab ID: BBG0308-02 (Air)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Semivolatile Organic Compounds											
Method: EPA TO-10A											
Aroclor-1016 (PCB-1016)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 09:52	B0H0008	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*31.2%*				*30-150*		07/31/20 18:00	*08/03/20 09:52*	B0H0008	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*37.4%*				*30-150*		07/31/20 18:00	*08/03/20 09:52*	B0H0008	*ATS*	3540C

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NV5	AETL Job Number:	BBG0308	Site: Malibu High School
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
	Project Name:	Malibu High School	Reported: 08/04/2020 15:01

Analytical Results

Client ID: WZ73020-1
Lab ID: BBG0308-03 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:06	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*60.4%*				*30-150*		07/31/20 18:00	*08/03/20 11:06*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*52.2%*				*30-150*		07/31/20 18:00	*08/03/20 11:06*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site: Malibu High School
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
	Project Name:	Malibu High School	Reported: 08/04/2020 15:01

Analytical Results

Client ID: WZ73020-2
Lab ID: BBG0308-04 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	**0.0366**	J	1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 11:21	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*33.6%*				*30-150*		07/31/20 18:00	*08/03/20 11:21*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*47.1%*				*30-150*		07/31/20 18:00	*08/03/20 11:21*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: WZ73020-3
Lab ID: BBG0308-05 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:39	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*75.8%*				*30-150*		07/31/20 18:00	*08/03/20 12:39*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*50.7%*				*30-150*		07/31/20 18:00	*08/03/20 12:39*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: WZ73020-4
Lab ID: BBG0308-06 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 12:54	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*42.0%*				*30-150*		07/31/20 18:00	*08/03/20 12:54*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*52.2%*				*30-150*		07/31/20 18:00	*08/03/20 12:54*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: J073120-1

Lab ID: BBG0308-07 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:08	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*43.3%*				*30-150*		07/31/20 18:00	*08/03/20 13:08*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*66.9%*				*30-150*		07/31/20 18:00	*08/03/20 13:08*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: J073120-2

Lab ID: BBG0308-08 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:23	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*31.0%*				*30-150*		07/31/20 18:00	*08/03/20 13:23*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*43.7%*				*30-150*		07/31/20 18:00	*08/03/20 13:23*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: J073120-3

Lab ID: BBG0308-09 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:38	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*59.4%*				*30-150*		07/31/20 18:00	*08/03/20 13:38*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*38.2%*				*30-150*		07/31/20 18:00	*08/03/20 13:38*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: J073120-4

Lab ID: BBG0308-10 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 13:53	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*39.9%*				*30-150*		07/31/20 18:00	*08/03/20 13:53*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*45.5%*				*30-150*		07/31/20 18:00	*08/03/20 13:53*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: J073120-5

Lab ID: BBG0308-11 (Wipe)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
PCBs											
Method: EPA 8082											
Aroclor-1016 (PCB-1016)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	07/31/20 18:00	08/03/20 14:08	B0H0010	AT	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*40.7%*				*30-150*		07/31/20 18:00	*08/03/20 14:08*	B0H0010	*AT*	3540C
Surrogate: Tetrachloro-m-xylene	*44.2%*				*30-150*		07/31/20 18:00	*08/03/20 14:08*	B0H0010	*AT*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Analytical Results

Client ID: I73020-3

Lab ID: BBG0308-12 (Air)

Analyte	Result	Qualifier	Dilution	MDL	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Semivolatile Organic Compounds											
Method: EPA TO-10A											
Aroclor-1016 (PCB-1016)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0500	0.100	ng/m³	07/31/20 18:00	08/03/20 10:07	B0H0008	ATS	3540C
	Recovery				Acceptance Criteria						
Surrogate: Decachlorobiphenyl	*46.2%*				*30-150*		07/31/20 18:00	*08/03/20 10:07*	B0H0008	*ATS*	3540C
Surrogate: Tetrachloro-m-xylene	*35.9%*				*30-150*		07/31/20 18:00	*08/03/20 10:07*	B0H0008	*ATS*	3540C

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NV5	AETL Job Number:	BBG0308	Site:	Malibu High School	
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	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

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: B0H0008 - 3540C					**Prepared: 07/31/2020 18:00**						
Method Blank (B0H0008-BLK1)					**Analyzed: 08/03/2020 09:22**						
Aroclor-1016 (PCB-1016)	ND	0.0500	0.100	ng/m³							
Aroclor-1221 (PCB-1221)	ND	0.0500	0.100	ng/m³							
Aroclor-1232 (PCB-1232)	ND	0.0500	0.100	ng/m³							
Aroclor-1242 (PCB-1242)	ND	0.0500	0.100	ng/m³							
Aroclor-1248 (PCB-1248)	ND	0.0500	0.100	ng/m³							
Aroclor-1254 (PCB-1254)	ND	0.0500	0.100	ng/m³							
Aroclor-1260 (PCB-1260)	ND	0.0500	0.100	ng/m³							
Aroclor-1262 (PCB-1262)	ND	0.0500	0.100	ng/m³							
Aroclor-1268 (PCB-1268)	ND	0.0500	0.100	ng/m³							
Surrogate: Decachlorobiphenyl	*0.0354*			*ng/m³*	*0.0500000*		*70.7*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0323*			*ng/m³*	*0.0500000*		*64.6*	*30-150*			

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Long Beach, CA 90807	Project Manager:	Jonathan Barkman		Malibu, CA	
	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

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: B0H0008 - 3540C (Continued)					**Prepared: 07/31/2020 18:00**						
LCS (B0H0008-BS1)					**Analyzed: 08/03/2020 08:52**						
Aroclor-1016 (PCB-1016)	0.554	0.0500	0.100	ng/m³	1.00000		55.4	40-140			
Aroclor-1260 (PCB-1260)	0.614	0.0500	0.100	ng/m³	1.00000		61.4	40-140			
Surrogate: Decachlorobiphenyl	*0.0309*			*ng/m³*	*0.0500000*		*61.8*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0304*			*ng/m³*	*0.0500000*		*60.9*	*30-150*			
LCSD (B0H0008-BSD1)					**Analyzed: 08/03/2020 09:07**						
Aroclor-1016 (PCB-1016)	0.492	0.0500	0.100	ng/m³	1.00000		49.2	40-140	11.9	40	
Aroclor-1260 (PCB-1260)	0.595	0.0500	0.100	ng/m³	1.00000		59.5	40-140	3.26	40	
Surrogate: Decachlorobiphenyl	*0.0349*			*ng/m³*	*0.0500000*		*69.8*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0290*			*ng/m³*	*0.0500000*		*58.1*	*30-150*			

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	Project Name:	Malibu High School	Reported:	08/04/2020 15:01	

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0H0010 - 3540C					**Prepared: 07/31/2020 18:00**						
Method Blank (B0H0010-BLK1)					**Analyzed: 08/03/2020 10:51**						
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	*0.0533*			*ug/100cm2*	*0.0500000*		*107*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0438*			*ug/100cm2*	*0.0500000*		*87.6*	*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: B0H0010 - 3540C (Continued)					**Prepared: 07/31/2020 18:00**						
LCS (B0H0010-BS1)					**Analyzed: 08/03/2020 10:21**						
Aroclor-1016 (PCB-1016)	0.509	0.0200	0.0500	ug/100cm2	1.00000		50.9	50-150			
Aroclor-1260 (PCB-1260)	0.688	0.0200	0.0500	ug/100cm2	1.00000		68.8	50-150			
Surrogate: Decachlorobiphenyl	*0.0366*			*ug/100cm2*	*0.0500000*		*73.2*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0346*			*ug/100cm2*	*0.0500000*		*69.2*	*30-150*			
LCSD (B0H0010-BSD1)					**Analyzed: 08/03/2020 10:36**						
Aroclor-1016 (PCB-1016)	0.629	0.0200	0.0500	ug/100cm2	1.00000		62.9	50-150	21.1	40	
Aroclor-1260 (PCB-1260)	0.570	0.0200	0.0500	ug/100cm2	1.00000		57.0	50-150	18.6	40	
Surrogate: Decachlorobiphenyl	*0.0389*			*ug/100cm2*	*0.0500000*		*77.7*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.0319*			*ug/100cm2*	*0.0500000*		*63.7*	*30-150*			

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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
%REC	Percent Recovery
°C	Degrees Celsius
AETL	American Environmental Testing Laboratory, LLC
CARB	California Air Resources Board
COC	Chain of Custody
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
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
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
OSHA	Occupational Safety and Health Administration
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 equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
TPH	Total Petroleum Hydrocarbons
ug/kg	Micrograms per Kilogram

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ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
Y	Yes

NV5

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