

September 28, 2020

Via Electronic Mail to: r9landsubmit@epa.gov and cruz.amanda@epa.gov

Ms. Amanda Cruz, PCBs in School Coordinator USEPA Region IX Land Division, LND-42 75 Hawthorne Street San Francisco, CA, 94105

RE: Notification and Request for Approval, Sediment Removal and Disposal, Building D, Malibu High School, Malibu, CA

Dear Ms. Cruz:

On behalf of the Santa Monica/Malibu Unified School District ("SMMUSD" or "the District"), Ramboll has prepared this letter to summarize the soil and sediment sampling results collected in conjunction with the remediation of building materials containing polychlorinated biphenyls (PCBs) ≥50 parts per million (ppm), in Building D on the Malibu High School (MHS) campus. The remediation activities are described in the Ramboll workplan titled *Notification and Request for Approval, Site-Specific PCB Remediation Waste Plan, Building D, Malibu High School, Malibu, California* ("the Workplan") dated March 27, 2020 (Ramboll, 2020), which was approved by the United States. Environmental Protection Agency (USEPA) in a letter dated April 23, 2020 (USEPA, 2020).

As a condition of approval, USEPA requested submittal of a PCB sampling plan for sediments in stormwater drains and soils around the Building D demolition site. The sampling plan is included as **Attachment A**. The sampling plan was submitted on June 24, 2020, and after a verbal approval from USEPA, samples were collected on July 6, 2020. This letter summarizes the results of those sampling activities, next steps, and requests approval for disposal of PCB remediation waste under 40 CFR 761.61(c), and decontamination of the catch basins under 40 CFR 761.79(h)(2).

Background

In 2014, soil sampling was conducted across the MHS campus as part of the Preliminary Environmental Assessment (PEA) (ENVIRON, 2015). This investigation was conducted as part of a voluntary agreement with the California Department of Toxic Substances Control (DTSC) to evaluate soils at the Malibu High School and the potential need for further remediation to allow for future unrestricted use of the site. A total of twelve (12) shallow soil samples were collected from depths of 0.5 – 2 feet below ground surface (bgs)in the vicinity of Building D and analyzed for PCBs. Analytical results from these samples indicated that PCBs were not present in soil above USEPA residential Regional Screening Levels (RSLs). The sampling summarized below was conducted to supplement the previous sampling results with additional locations around Building D. Ramboll 3 Carlisle Road Westford, MA 01886 USA

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SAMPLE RESULTS

On July 6, 2020, prior to demolition of Building D, NV5 (formerly Alta Environmental) collected a total of eleven soil/sediment samples. Nine soil samples (including one duplicate) were collected from depths of 0.5 – 2.0 feet bgs on all four sides of Building D. In addition, two representative sediment samples were collected from stormwater catch basins located on the northern and eastern side of Building D. The samples were collected using hand tools, and submitted to Enviro-Chem, Inc. in Pomona, California for analysis of PCBs using USEPA Method 8082A via Soxhlet extraction. The site plan is shown on **Figure 1** and sampling locations are shown on **Figure 2**.

Analytical results show that concentrations of aroclor 1254 in soil samples range from non-detect to 0.224 milligrams per kilogram (mg/kg). All other aroclors were not detected above their respective laboratory reporting limits. None of the concentrations were above their respective USEPA residential RSL of 0.24 mg/kg (USEPA, 2020). These results confirm the previous PEA sampling results indicating that PCBs in soil around Building D do not present an unacceptable risk to human health or the environment. Soil analytical results are summarized in **Table 1** and **Figure 2**, and the laboratory reports are included in **Attachment B**.

Sediment samples contained concentrations of aroclor 1254 at 0.864 mg/kg in the northern catch basin and 1.23 mg/kg in the eastern catch basin (**Figure 2**). Both concentrations exceed the USEPA residential RSL of 0.24 mg/kg. All other aroclors were not detected above their respective laboratory reporting limits. Based on these results, the District plans to remove the sediment in the catch basins for offsite disposal as <50 ppm PCB remediation waste. Sediment analytical results are summarized in **Table 1**. Proposed work activities associated with the removal are summarized below.

SEDIMENT REMOVAL

To address the sediment containing PCBs >0.24 mg/kg the District will clean the catch basins to remove any sediment and flush the storm drain lines associated with these catch basins. All workers involved with these tasks will be OSHA 40-hour HAZWOPER trained, and will follow applicable federal and state regulations regarding the work activities. To reduce dust levels and exposures to dust, a combination of equipment equipped with HEPA filters, and personal protective equipment will be implemented as part of the work activities. Approval is requested from the USEPA for a) disposal of the sediment as PCB remediation waste under 40 CFR 761.61(c), b) disposal of the water from flushing (if analytical results are >3 ppb) as PCB remediation waste under 40 CFR 761.61(c), and c) decontamination of the catch basins under 40 CFR 761.79(h)(2). The written certification signed by the district as required under 40 CFR 761.61(a)(3)(i)(E) is included as **Appendix C**. The associated scope is summarized below:

Clean Out of the Catch Basins

- Removal of sediment from all three catch basins along the northern storm drain line, and from one catch basin on the eastern storm drain line will be performed using hand tools.
- A HEPA equipped vacuum will be used to remove any residual material that cannot be retrieved by hand tools.
- The floor of the catch basin, which has been in contact with PCB containing sediments, will then be wiped with a clean rag that is moistened with hexane. The sides of the basins have not come into contact with sediments and therefore will be wiped down with water only.



- Wipe samples will be collected from the bottom of the catch basins after decontamination. If the wipe sample results are <10 ug/100cm², then the catch basin can be cleared for unrestricted use. If wipe sample results are >10ug/100cm², then a second round of decontamination and wipe samples will be conducted.
- The removed sediment, material from the vacuum, and rags will then be placed in 55-gallon drums for disposal as <50 ppm PCB remediation waste.
- All containers will be properly labeled and marked in accordance with 40 CFR 761.40.
- Drums will be transported off-site for disposal under a Bill of Lading (in accordance with both USEPA and California regulations) in accordance with 40 CFR 761 and 22 CCR 66262.23.
- At the completion of the project, any non-disposable equipment and tools that handled PCB material will be decontaminated following the procedures described in 40 CFR 761.79.

Flushing of Storm Drain Lines

- Temporarily seal the discharge lines from each of the two designated manhole recovery locations. Storm conveyance lines that exit each of these manholes shall be blocked with plugs or inflatable packers to retain flushed liquids and sediment inside the manhole.
- Work inside the manholes is considered a "Permitted Confined Space" and shall be performed in accordance with OSHA guidelines, including any necessary interactions and permits/approvals.
- A confined space entry plan shall be prepared. The plan will describe the work, including air monitoring of the confined space, designated team member roles and responsibilities, and describes equipment to be used in performing confined space entry. The plan shall also describe confined space protocols and equipment that shall be in place for performing emergency confined space rescue, prior to starting any confined space entry work.
- The conveyance lines will be flushed by hydro-jetting with potable water, starting from the most upstream catch basin on each line, pushing liquids downstream ultimately to the designated recovery manhole. The storm drain lines and manholes are shown on **Figure 3**.
- All flushed liquids (and residual sediments) shall be removed from each recovery manhole and containerized in DOT-approved totes for offsite disposal and sampled as soon as practicable.
- All totes will be properly labeled and marked in accordance with 40 CFR 761.40.
- Upon completion of flushing, the water will be sampled for disposal as PCB remediation waste at the US Ecology facility in Beatty, NV or at the Clean Harbors Facility in Wilmington, CA.
- Totes will be transported off-site for disposal under a Bill of Lading (in accordance with both USEPA and California regulations) in accordance with 40 CFR 761 and 22 CCR 66262.23.

Upon completion of the activities above, the catch basins and stormwater system will no longer contain sediment at levels exceeding USEPA residential RSL.

CLOSING

We would be pleased to answer any questions that you may have about this letter. If you have any questions or would like to discuss this further, please contact either one of us.



Sincerely,

KWilkin

Douglas Daugherty, PhD, CIH, PE West Region COO, Americas

Jason K. Wilkinson, PG, LSP Senior Managing Consultant

Attachments:

Table 1 – Soil and Sediment Analytical Results Figure 1 – Site Plan Figure 2 – Sample Locations and Results Attachment A – Soil Sampling Plan Attachment B – Laboratory Reports Attachment C - Certification

REFERENCES

- ENVIRON International Corporation. 2015. Preliminary Environmental Assessment Report, Juan Cabrillo Elementary School and Malibu High School, 30237 and 30215 Morning View Drive, Malibu, California. August 21.
- Ramboll. 2020. Notification and Request for Approval, PCB Remediation Waste Plan, Building D, Malibu High School, Malibu, California. March 27.
- USEPA. 2020. Site-Specific PCB Remediation Waste Plan, Building D, Malibu High School, Malibu, California – Toxic Substances Control Act, EPA Approval, 40 CFR 761.61(a) and (c). April 23.
- USEPA. 2020. Regional Screening Levels. <u>https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables</u>



TABLE

Table 1 Soil and Sediment Sampling Results Malibu High School Building D

		Donth	PCBs (mg/kg)						
Sample ID	Sample Type	(ft)	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
USEP	A Residential RS	L	4	0.2	0.2	0.23	0.23	0.24	0.24
DSE-0.5	Soil	0 - 0.5	<0.020	<0.020	<0.020	<0.020	<0.020	0.224	<0.020
DSE-0.5D	Soil	0 - 0.5	<0.020	<0.020	<0.020	<0.020	<0.020	0.179	<0.020
DSE-2.0	Soil	1.5 - 2.0	<0.020	<0.020	<0.020	<0.020	<0.020	0.115	<0.020
DSN-0.5	Soil	0 - 0.5	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
DSN-2.0	Soil	1.5 - 2.0	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
DSS-0.5	Soil	0 - 0.5	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200	<0.200
DSS-2.0	Soil	1.5 - 2.0	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
DSW-0.5	Soil	0 - 0.5	<0.040	<0.040	<0.040	<0.040	<0.040	0.055	<0.040
DSW-2.0	Soil	1.5 - 2.0	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
DN-SD	Sediment		<0.040	<0.040	<0.040	<0.040	<0.040	0.864	<0.040
DSE-SD	Sediment		<0.200	<0.200	<0.200	<0.200	<0.200	1.23	<0.200

Bold - Sample results exceed USEPA residential regional screening level (RSL) Samples analyzed by 8082A - Gas Chromatography with soxhlet extraction



FIGURES



Malibu High School 30215 Morning View Drive, Malibu, California

DRAFTED BY: MMG

Date: 3/17/2020





LEGEND:

•	SOIL SAMPLE LOCATION
٠	SOIL SAMPLE LOCATION (2014 PEA INVESTIGATION)
٠	STORM DRAIN SAMPLE LOCATION
ST	STORM DRAIN LINE
\odot	STORM DRAIN MANHOLE
Ш	STORM DRAIN CATCH BASIN
Ø	STORM DRAIN CLEAN OUT
-	STORM WATER FLOW DIRECTION
1.23 ppm	SAMPLE RESULT EXCEEDS THE USEPA RESIDENTIAL REGIONAL SCREENING LEVELS



40 SCALE IN FEET





APPENDIX A SOIL SAMPLING PLAN



MEMO

ToAmanda Cruz, USEPA Region 9FromJason Wilkinson and Travis Hinman, RambollSubjectSoil and Sediment Sampling Plan for Building D, Malibu
High School, Malibu, California

INTRODUCTION

On behalf of the Santa Monica Malibu Unified School District ("SMMUSD" or "the District"), Ramboll has prepared this memorandum to summarize the soil and sediment sampling protocols to be implemented in conjunction with the remediation of building materials containing polychlorinated biphenyls (PCBs) \geq 50 parts per million (ppm), in Building D on the Malibu High School (MHS) campus. The remediation activities are described in the Ramboll workplan titled *Notification and Request for Approval, Site-Specific PCB Remediation Waste Plan, Building D, Malibu High School, Malibu, California* ("the Workplan") dated March 27, 2020 (Ramboll, 2020), which was approved by the U.S. Environmental Protection Agency (USEPA) in a letter dated April 23, 2020 (USEPA, 2020).

As a condition of approval, USEPA requested submittal of a PCB sampling plan for sediments in stormwater drains, and soils around the Building D demolition site. This sampling plan serves to satisfy that request as stated in Section B.2.m of the USEPA approval letter.

Background

In 2014, soil sampling was conducted across the MHS campus as part of the Preliminary Environmental Assessment (PEA) (Environ, 2015). A total of 12 shallow soil samples were collected in the vicinity of Building D and analyzed for PCBs. Analytical results from these samples indicated that PCBs were not present in soil above the USEPA residential Regional Screening Levels (RSLs). The sampling plan summarized below is designed to supplement the previous sampling results to give a more complete picture of soil conditions around Building D.

SAMPLING PLAN

Sample Collection

Soil samples will be collected from depths of 0 - 0.5 and 1.5 - 2.0 feet at four locations, one on each side of Building D, as shown on **Figure 1**. Hand tools (i.e., trowel or hand auger) will be used to collect the samples.

Sediment samples will be collected from two existing storm drains located on the north and north-east sides of Building D, as shown on **Figure 1**. The storm drain grate will be

Date June 24, 2020

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removed, and hand tools (e.g. disposable scoop) will be used to collect sediment from the bottom of the storm drain.

All soil and sediment samples will be placed in laboratory suppled glass containers with a Teflon lined lid, and properly labeled including the sample location, date, and time. All samples will be placed on ice under and shipped under chain of custody (COC) protocol to a CA-certified laboratory. Samples will be extracted by EPA Method 3540C (Soxhlet extraction) and analyzed by EPA Method 8082A.

Field Duplicates

Duplicate field samples will be collected at a rate of 1 per 20 samples. Each field duplicate will be collected from the same source material and at the same time as the primary sample. It will be handled identically as the primary sample throughout field and laboratory procedures.

Documentation

Photos will be taken of each sample location. Once samples have been collected, they will be labeled and maintained under COC procedures. Information contained on the COC will include:

- Project name
- Project number
- Signature of sampler
- Date and time sampled
- Sample I.D.
- Number of sample containers
- Sample matrix
- Analyses required
- Turnaround time and person to receive laboratory report
- Release signature of sampler and signatures of all people assuming custody

The field sampler will sign the COC and will record the time and date at the time of transfer to the laboratory or an intermediate person. A set of signatures is required for each relinquished/received transfer, including internal transfer.

Decontamination

Any tools that come in contact with samples will be cleaned before and after each use. All soil will be removed from the tools and parts, and the tools will be washed in laboratory-grade Alconox detergent and water solution with a brush, followed by rinsing or wiping with hexane¹. Decontamination fluids will be collected and stored on-site for disposal, pending analytical results. Liquid decontamination waste containing hydrocarbon solvents and \leq 50 ppm PCB must be disposed of in an incinerator that complies with 40 CFR 761.70.

¹ This decontamination approach is consistent with USEPA's decontamination procedures outlined in "Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCBs)", dated May 2011.



REFERENCES

- Environ International Corporation. 2015. Preliminary Environmental Assessment Report, Juan Cabrillo Elementary School and Malibu High School, 30237 and 30215 Morning View Drive, Malibu California. August 21.
- Ramboll. 2020. Notification and Request for Approval, PCB Remediation Waste Plan, Building D, Malibu High School, Malibu California. March 27.
- USEPA. 2020. Site-Specific PCB Remediation Waste Plan, Building D, Malibu High School, Malibu, California – Toxic Substances Control Act, EPA Approval, 40 CFR 761.61(a) and (c) CATSCA 100826. April 23.





PROPOSED SOIL SAMPLE LOCATION PROPOSED SEDIMENT SAMPLE LOCATION

SOURCE: AERIAL IMAGERY: Google Earth. IMAGE DATE: 8/19/2019. STORM DRAIN LINE

	M	R CIL	
\mathbf{R}	1111		- 6-

FIGURE **1**

DRAFTED BY: DLB

PROJECT: 1690017593



APPENDIX B LABORATORY REPORTS



American Environmental Testing Laboratory Inc.

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Ordered By

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

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

Number of Pages	7
Date Received	07/06/2020
Date Reported	07/13/2020

Job Number	Order Date	Client
105317	07/06/2020	NV5

Project ID:SMSD-20-9592Project Name:Malibu High School Bldg. DSite:Malibu High SchoolMorning View Dr.Malibu, CA 90265

Enclosed please find revised results of analyses of 11 soil sampleswhich were analyzed as specified on the attached chain ofcustody. If there are any questions, please do not hesitate tocall.

Checked By:

Approved By:

Joe Sevrean Laboratory Director

A. M. MILLING		MPANY
	A REAL PROPERTY OF A REAL PROPER	A KYZER LABS CO

AMERICAN ENVIRONMENTAL TESTING LABORATORY

2834 NORTH NAOMI ST. BURBANK. CALLEORNIA 91504 ELAP # 1541 LACSD# 10181

 $\label{eq:chain of custody record} \end{tabular} \end{ta$

AMERICAN ENVIRONMENTAL TESTING LABORATORY



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COOLER RECEIPT FORM

Client Name: $NV5$							
Project Name:							
AETL Job Number: 105317							
Date Received: 7/6/2020 Rece	ived b	V: Samie	0				
Carrier: $\Box AETI Courier \square Client$		$SO \square Fed$	Fy DIPS				
Cooler(t)		· (0,					
Samples were received in: A Cooler () L		(Specify):	. 2.				
Inside temperature of snipping container No 1.	<u>), ;</u>	Wide mouth iers	UDPE hottles				
Type of sample containers: \Box VOA, \Box Glass bo	mes, A	wide mouni jais	β , \Box HDF E bounds,				
☐ Metal sleeves, ☐ Others (Specify):							
How are samples preserved: \Box None, \Box Ice,		\Box \Box \Box \Box \Box \Box	\Box UC1 \Box No.S.O.				
None, ⊔h HNO3	s, ⊡īna	$\bigcup H, \ \bigsqcup Z \square \bigcup A C,$	\square Π CI, \square				
	Vac	No	Nomo if it is no notified				
1. And the COCe Compart?	res	INO , explain below	I value, if client was notified.				
1. Are the COUS Collect?							
2. Are the Sample labels legiole?							
4. Are the required analyses clear?		<u> </u>					
5. Is there enough samples for required analysis?							
6 Are samples sealed with evidence tape?	NIA						
7. Are sample containers in good condition?							
8. Are samples preserved?							
9. Are samples preserved properly for the	9. Are samples preserved properly for the						
intended analysis?	intended analysis?						
10. Are the VOAs free of headspace?	A/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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Page: 1 A

Ordered By

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

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

Project ID: SMS	SD-20-9592
Date Received	07/06/2020
Date Reported	07/13/2020

Job Number	Order Date	Client
105317	07/06/2020	NV5

CERTIFICATE OF ANALYSIS CASE NARRATIVE

AETL received 11 samples with the following specification on 07/06/2020.

Lab	D ID	Sample ID	Sample Date	Matr	ix	Q	uantity Of	Containers
10531	7.01	DSE-0.5	07/06/2020	Soil			1	
10531	7.02	DSE-0.5D	07/06/2020	Soil			1	
10531	7.03	DSE-2.0	07/06/2020	Soil			1	
10531	7.04	DSN-0.5	07/06/2020	Soil			1	
10531	7.05	DSN-2.0	07/06/2020	Soil			1	
10531	7.06	DSS-0.5	07/06/2020	Soil			1	
10531	7.07	DSS-2.0	07/06/2020	Soil			1	
10531	7.08	DSW-0.5	07/06/2020	Soil			1	
10531	7.09	DSW-2.0	07/06/2020	Soil			1	
10531	7.10	DN-SD	07/06/2020	Soil			1	
10531	7.11	DSE-SD	07/06/2020	Soil			1	
	Method	^ Submethod	Req Da	ate	Priority	TAT	Units	
	(8082)		07/13/20	020	2	Normal	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.

Approved By:

Joe Sevrean Laboratory Director

Checked By:

American Environmental Testing Laboratory Inc.

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ANALYTICAL RESULTS

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NV5 Malibu High School					
3777 Long Beach H	3lvd.		Morning View Dr.		
Long Beach, CA 9	0807-		Malibu, CA 90265		
Telephone: (562)4	195-5777	-			
Attn: Jonath	an Barkman				
Page:	2				
Project ID:	SMSD-20-9592		AETL Job Number	Submitted	Client
Project Name:	Malibu High School Bldg.	D	105317	07/06/2020	NV5

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

QC Batch No: 070820ZB1

Our Lab I.D.			Method Blank	105317.01	105317.02	105317.03	105317.04
Client Sample I.D.				DSE-0.5	DSE-0.5D	DSE-2.0	DSN-0.5
Date Sampled				07/06/2020	07/06/2020	07/06/2020	07/06/2020
Date Prepared			07/08/2020	07/08/2020	07/08/2020	07/08/2020	07/08/2020
Preparation Method			3540C	3540C	3540C	3540C	3540C
Date Analyzed			07/10/2020	07/10/2020	07/10/2020	07/10/2020	07/10/2020
Matrix			Soil	Soil	Soil	Soil	Soil
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	224	179	115	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	105317.01	105317.02	105317.03	105317.04
Surrogates	%Rec.Limit		% Rec.	% Rec.	% Rec.	% Rec.	% Rec.
Decachlorobiphenyl	30-150		72.4	58.4	41.6	48.4	51.2
Tetrachloro-m-xylene	30-150		110	78.4	52.8	76.8	88.4

Ordered By

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ANALYTICAL RESULTS

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	Cito	
	DICE	

NV5			Malibu High School		
3777 Long Beach	Blvd.		Morning View Dr.		
Long Beach, CA 9	0807-		Malibu, CA 90265		
Telephone: (562)	495-5777				
Attn: Jonath	an Barkman				
Page:	3				
Project ID:	SMSD-20-9592		AETL Job Number	Submitted	Client
Project Name:	Malibu Hiqh School Bldq.	D	105317	07/06/2020	NV5

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

QC Batch No: 070820ZB1

Our Lab I.D.			105317.05		
Client Sample I.D.			DSN-2.0		
Date Sampled			07/06/2020		
Date Prepared			07/08/2020		
Preparation Method			3540C		
Date Analyzed			07/10/2020		
Matrix			Soil		
Units			ug/Kg		
Dilution Factor			1		
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	20.0	50.0	ND		
Aroclor-1221 (PCB-1221)	20.0	50.0	ND		
Aroclor-1232 (PCB-1232)	20.0	50.0	ND		
Aroclor-1242 (PCB-1242)	20.0	50.0	ND		
Aroclor-1248 (PCB-1248)	20.0	50.0	ND		
Aroclor-1254 (PCB-1254)	20.0	50.0	ND		
Aroclor-1260 (PCB-1260)	20.0	50.0	ND		
Aroclor-1262 (PCB-1262)	20.0	50.0	ND		
Aroclor-1268 (PCB-1268)	20.0	50.0	ND		
Our Lab I.D.			105317.05		
Surrogates	%Rec.Limit		% Rec.		
Decachlorobiphenyl	30-150		56.0		
Tetrachloro-m-xylene	30-150		92.8		

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 Tel:
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ANALYTICAL RESULTS

Ordered By

Site

NV5			Malibu High School					
3777 Long Beach	Blvd.		Morning View Dr.					
Long Beach, CA 9	0807- Malibu, CA 90265							
Telephone: (562)	495-5777							
Attn: Jonat	han Barkman							
Page:	4							
Project ID:	SMSD-20-9592		AETL Job Number	Submitted	Client			
Project Name:	Malibu High School Bldg.	D	105317	07/06/2020	NV5			

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

QC Batch No: 070820ZB1

Our Lab I.D.			105317.06		
Client Sample I.D.			DSS-0.5		
Date Sampled			07/06/2020		
Date Prepared			07/08/2020		
Preparation Method			3540C		
Date Analyzed			07/10/2020		
Matrix			Soil		
Units			ug/Kg		
Dilution Factor			10		
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	200	500	ND		
Aroclor-1221 (PCB-1221)	200	500	ND		
Aroclor-1232 (PCB-1232)	200	500	ND		
Aroclor-1242 (PCB-1242)	200	500	ND		
Aroclor-1248 (PCB-1248)	200	500	ND		
Aroclor-1254 (PCB-1254)	200	500	ND		
Aroclor-1260 (PCB-1260)	200	500	ND		
Aroclor-1262 (PCB-1262)	200	500	ND		
Aroclor-1268 (PCB-1268)	200	500	ND		

Comment(s):

105317.06: Analyzed under dilution due to matrix interference

Our Lab I.D.		105317.06		
Surrogates	%Rec.Limit	% Rec.		
Decachlorobiphenyl	30-150	65.6		
Tetrachloro-m-xylene	30-150	48.0		

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ANALYTICAL RESULTS

Ordered By

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	DICE	

NV5			Malibu High School				
3777 Long Beach I	Blvd.		Morning View Dr.				
Long Beach, CA 9	0807-		Malibu, CA 90265				
Telephone: (562)4	Telephone: (562)495-5777						
Attn: Jonath	an Barkman						
Page:	5						
Project ID:	SMSD-20-9592		AETL Job Number	Submitted	Client		
Project Name: Malibu High School Bldg. D		D	105317	07/06/2020	NV5		

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

QC Batch No: 070820ZB1

Our Lab I.D.			105317.07	105317.08	105317.09	105317.10	
Client Sample I.D.			DSS-2.0	DSW-0.5	DSW-2.0	DN-SD	
Date Sampled			07/06/2020	07/06/2020	07/06/2020	07/06/2020	
Date Prepared			07/08/2020	07/08/2020	07/08/2020	07/08/2020	
Preparation Method			3540C	3540C	3540C	3540C	
Date Analyzed			07/10/2020	07/10/2020	07/10/2020	07/10/2020	
Matrix			Soil	Soil	Soil	Soil	
Units			ug/Kg	ug/Kg	ug/Kg	ug/Kg	
Dilution Factor			2	2	2	2	
Analytes	MDL	PQL	Results	Results	Results	Results	
Aroclor-1016 (PCB-1016)	40	100	ND	ND	ND	ND	
Aroclor-1221 (PCB-1221)	40	100	ND	ND	ND	ND	
Aroclor-1232 (PCB-1232)	40	100	ND	ND	ND	ND	
Aroclor-1242 (PCB-1242)	40	100	ND	ND	ND	ND	
Aroclor-1248 (PCB-1248)	40	100	ND	ND	ND	ND	
Aroclor-1254 (PCB-1254)	40	100	ND	55.4J	ND	864	
Aroclor-1260 (PCB-1260)	40	100	ND	ND	ND	ND	
Aroclor-1262 (PCB-1262)	40	100	ND	ND	ND	ND	
Aroclor-1268 (PCB-1268)	40	100	ND	ND	ND	ND	

Comment(s):

105317.07: Analyzed under dilution due to matrix interference 105317.09: Analyzed under dilution due to matrix interference

Our Lab I.D.		105317.07	105317.08	105317.09	105317.10	
Surrogates	%Rec.Limit	% Rec.	% Rec.	% Rec.	% Rec.	
Decachlorobiphenyl	30-150	41.6	43.2	70.0	49.2	
Tetrachloro-m-xylene	30-150	61.2	50.0	100	92.4	

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ANALYTICAL RESULTS

Site

NV5			Malibu High School					
3777 Long Beach Blvd.			Morning View Dr.					
Long Beach, CA 90807- Malibu, CA 90265								
Telephone: (562)4	95-5777							
Attn: Jonatha	an Barkman							
Page:	6							
Project ID:	SMSD-20-9592		AETL Job Number	Submitted	Client			
Project Name:	Malibu High School Bldg.	D	105317	07/06/2020	NV5			

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

QC Batch No: 070820ZB1

Our Lab I.D.			105317.11		
Client Sample I.D.	Client Sample I.D.		DSE-SD		
Date Sampled			07/06/2020		
Date Prepared			07/08/2020		
Preparation Method			3540C		
Date Analyzed			07/10/2020		
Matrix			Soil		
Units			ug/Kg		
Dilution Factor			10		
Analytes	MDL	PQL	Results		
Aroclor-1016 (PCB-1016)	200	500	ND		
Aroclor-1221 (PCB-1221)	200	500	ND		
Aroclor-1232 (PCB-1232)	200	500	ND		
Aroclor-1242 (PCB-1242)	200	500	ND		
Aroclor-1248 (PCB-1248)	200	500	ND		
Aroclor-1254 (PCB-1254)	200	500	1,230		
Aroclor-1260 (PCB-1260)	200	500	ND		
Aroclor-1262 (PCB-1262)	200	500	ND		
Aroclor-1268 (PCB-1268)	200	500	ND		
Our Lab I.D.			105317.11		
Surrogates	%Rec.Limit		% Rec.		
Decachlorobiphenyl	30-150		48.8		
Tetrachloro-m-xylene	30-150		58.4		

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QUALITY CONTROL RESULTS Site

Ordered By

			5200				
NV5			Malibu High School				
3777 Long Beach Bl	vd.		Morning View Dr.				
Long Beach, CA 908	807-		Malibu, CA 90265				
Telephone: (562)49	95-5777						
Attn: Jonatha	n Barkman						
Page:	7						
Project ID:	SMSD-20-9592		AETL Job Number	Submitted			
Project Name:	Malibu High School Bldg.	D	105317	07/06/2020			

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

Client

NV5

QC Batch No: 070820ZB1; Dup or Spiked Sample: 105317.03; LCS: Clean Sand; QC Prepared: 07/08/2020; QC Analyzed: 07/10/2020; Units: ug/Kg

	Sample	MS	MS	MS	MS DUP	MS DUP	MS DUP	RPD	MS/MSD	MS RPD
Analytes	Result	Concen	Recov	% REC	Concen	Recov	% REC	%	% Limit	% Limit
Aroclor-1016 (PCB-1016)	0.00	500	402	80.4	500	394	78.8	2.01	50-150	<40
Aroclor-1260 (PCB-1260)	0.00	500	360	72.0	500	348	69.6	3.39	50-150	<40
Surrogates										
Decachlorobiphenyl	0.00	25.0	12.2	48.8	25.0	14.4	57.6	18.0	30-150	<40
Tetrachloro-m-xylene	0.00	25.0	29.0	116	25.0	31.0	124	6.67	30-150	<40

QC Batch No: 070820ZB1; Dup or Spiked Sample: 105317.03; LCS: Clean Sand; QC Prepared: 07/08/2020; QC Analyzed: 07/10/2020; Units: ug/Kg

	LCS	LCS	LCS	LCS DUP	LCS DUP	LCS DUP	LCS RPD	LCS/LCSD	LCS RPD	
Analytes	Concen	Recov	% REC	Concen	Recov	% REC	% REC	% Limit	% Limit	
Aroclor-1016 (PCB-1016)	500	441	88.2	500	457	91.4	3.56	50-150	<40	
Aroclor-1260 (PCB-1260)	500	432	86.4	500	396	79.2	8.70	50-150	<40	
Surrogates										
Decachlorobiphenyl	25.0	16.4	65.6	25.0	15.3	61.2	6.71	30-150	<40	
Tetrachloro-m-xylene	25.0	30.0	120	25.0	25.0	100	18.2	30-150	<40	

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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



APPENDIX C CERTIFICATION