

March 25, 2020

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

Attention: Carey Upton

Re: PCB Removal Clearance Letter

Malibu High School – Building D Stormwater System

1 INTRODUCTION

This Clearance Letter presents information regarding the removal of sediment from stormwater catch basins, followed by high pressure water flushing of the stormwater collection and conveyance system around the former Building D footprint (herein identified as "Building D") at Malibu High School. This work was performed in accordance with the "Notification and Request for Approval, Sediment Removal and Disposal, Building D, Malibu High School, Malibu, CA, September 28, 2020," prepared by Ramboll (Work Plan) and approved by USEPA on October 2, 2020.

2 PROJECT BACKGROUND

Per the results of previous shallow soil and catch basin sampling work performed by Alta Environmental, LP, DBA NV5 (NV5) and as specified in the Ramboll Soil and Sediment Sampling Plan for Building D, Malibu High school, Malibu, California, dated June 5, 2020, analytical testing of dry sediment samples obtained from the stormwater collection system indicated Polychlorinated Biphenyls (PCBs) were present in localized areas at concentrations above the USEPA carcinogenic Regional Screening Level (RSL) of 0.24 mg/kg for Arochlor 1254.

The stormwater collection and conveyance system around the Building D location is comprised of two separate lines. One line starts in the vicinity of Building I and continues south between the Buildings D and F, continuing further south toward Morning View Drive. The other line starts on the north side of Building D and extends west toward Building H, then south around the end of Building D, and finally eastward. Two specific downstream manholes, one for each line, were identified as collection and recovery locations, where flushed liquids containing residual sediments were collected and removed. Figure 1 identifies the drainage system and the two downstream recovery manholes.

3 PROJECT OBSERVATIONS

Miller Environmental (Contractor) removed sediments from all catch basins around Building D, then flushed storm conveyance piping associated with each catch basin with hydro-jetting equipment, from the most

upstream catch basin on each line segment in the vicinity of Building D, to the identified downstream manholes, where flushed liquids were collected and removed for disposal.

Contractor personnel involved in removal and handling of dry catch basin sediments were 40-Hour HAZWOPER-trained per 29 CFR1910.120, and CCR Title 8, Section 5192.

The sequential scope of work for sediment removal and line flushing performed by the Contractor under the oversight of NV5 personnel is further described below.

- Located all stormwater system catch basins around Building D, removed the steel grates and
 physically removed visible sediments by HEPA vacuuming both the catch basin, and the catch
 basin upper edge where the steel grate rests. All collected sediments were containerized in heavy
 duty plastic bags then placed inside a DOT-approved covered roll-off bin for disposal.
- 2. Temporarily plugged the discharge lines that exited each of the liquid recovery manholes with sandbags to retain flushed liquids inside the manhole. Access into manholes to place and remove sandbags was performed as a confined space entry.
- 3. The conveyance lines were flushed by hydro-jetting with potable water available on site, starting from the most upstream catch basin on each line, pushing liquids downstream ultimately to each designated recovery manhole.
- 4. All flushed liquids were removed from each recovery manhole with a vacuum truck and transferred to DOT-approved drums labeled as PCB remediation waste for temporary on site storage until waste profile efforts were completed. Liquid wastes were later transferred to a tanker truck for transportation and disposal.
- 5. After line flushing was complete, Contractor cleaned the steel grates and interior surfaces of each catch basin prior to reinstalling the steel grate. The steel grate and catch basin interior areas were wet-wiped with water-soaked rags, followed by wet wiping the bottoms of each catch basin with hexane-soaked rags. All soiled rags were placed in the same container as removed dry sediments for offsite disposal as a PCB Remediation Waste.

4 CONFIRMATION SAMPLING

Following removal activities, Miller and NV5 field personnel performed a final visual inspection of the catch basins and recovery manholes. Once the areas were found to be acceptably free of PCB-impacted materials, dust and other debris, NV5 collected clearance wipe samples for confirmation. Each wipe sample was collected on laboratory supplied gauze pads (or similar sampling media) in general accordance with the *Standard Wipe Test* procedure described in 40 CFR 761.123. The only reported PCB concentration was detected in sample CB-NW-2 (0.0685 µg/100cm²) and is below the EPA Region XI health-based benchmark of 1µg/100cm². Table 1 presents a summary of the laboratory analytical sampling results and the laboratory report and chain-of-custody documentation are included in Appendix A.

5 INVESTIGATION DERIVED WASTE

All containerized PCB Remediation Wastes were temporarily stored onsite within a temporary bermed drum storage area located on a concrete slab area to north of former Building D. All waste profiling was performed by Miller.

A total of 1,540 gallons of water associated with hydro-jetting of the drainage laterals, and approximately 0.1 cy of dry sediment from HEPA vacuuming of catch basins, were disposed of as PCB remediation Waste.

Hydro-jetting liquid wastes were shipped on December 8, 2020 to World Oil Recycling in Compton, California. Catch basin dry sediments were shipped in a bin with other PCB wastes from other on-site work



on December 15, 2020 to US Ecology in Beatty, Nevada. Shipping manifests for both waste streams are included in Appendix B.

6 CONCLUSIONS

Sediments and debris potentially impacted with PCBs within Malibu High School Building D stormwater system were appropriately removed and disposed, in accordance with the EPA-approved Work Plan.

7 SIGNATORY

Respectfully submitted by:

NV5

Jonathan Barkman

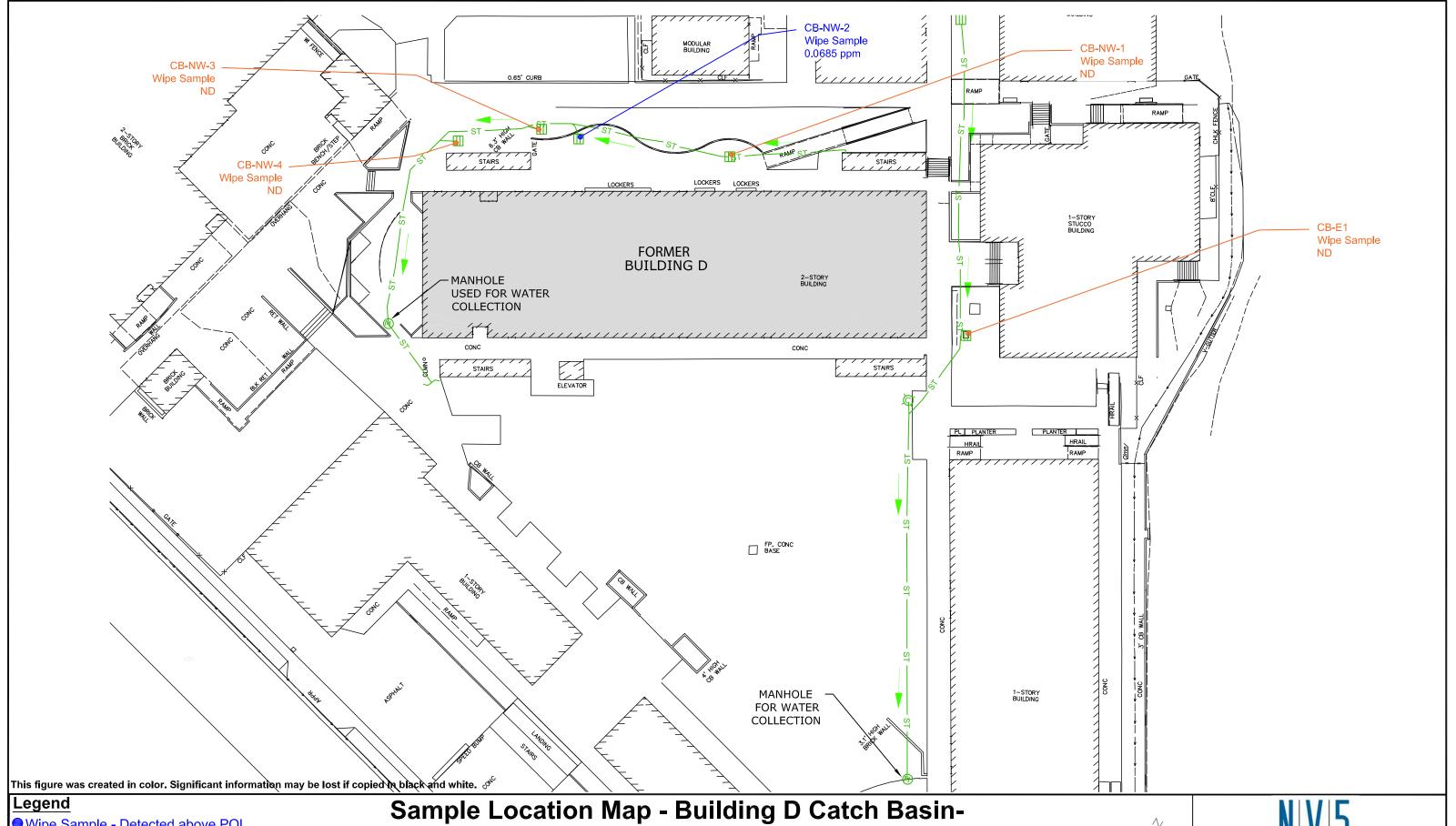
Project Manager

Bryan Stone, PE

Vice President – Site Assessment and Remediation

Attachments:

Table 1 – Confirmation Wipe Sample Results Attachment A – Laboratory Analytical Reports Attachment B – Waste Shipping Manifests



Wipe Sample - Detected above PQL

Wipe Sample - ND

PCB Sampling
Malibu High School
30215 Morning View Drive Malibu, California



ALTA
ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach, California 90807
P: (562) 495-5777 ◆ F: (562) 495-5877 ◆ www.altaenvlron.com Project No.: SMSD-20-9592 DATE: March 2021

ATTACHMENT A

Table 1 – Wipe Sample Results



TABLE 1

Wipe Sample Analytical Results for PCBs Former Building D Stormwater Catch Basin System Malibu High School 30215 Morning View Dr. Malibu, CA 90265

CLIENT: SMMUSD

PROJECT: MMHS Bldg D, H, J PCB Removal

Date: November 9, 2020

Building D

Sample Number	Bldg D Area	Rida D Area		Total PCBs (μg/100cm²)	Notas
CB-NW-1	Northwest Stormdrain System	Concrete	Surface Wipe	ND<0.05	
CB-NW-2	Northwest Stormdrain System	Concrete	Surface Wipe	0.0685	Archlor-1254
CB-NW-3	Northwest Stormdrain System	Concrete	Surface Wipe	ND<0.05	
CB-NW-4	Northwest Stormdrain System	Concrete	Surface Wipe	ND<0.05	
CB-E1	East Stormdrain System	Concrete	Surface Wipe	ND<0.05	



MMHS Buildina D	Stormwater Sy	vstem – PCB	Removal Cl	earance I etter

ATTACHMENT B

Laboratory Analytical Report and Chain-of-Custody





2834 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181 TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com

November 16, 2020

AETL Job No: BBK0139 Received Date: 11/09/2020 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: BldgD-Catch Basin

Site: Malibu High School Bldg D

30215 Morning View Dr Malibu, CA 90265

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any

questions concerning this report, please do not hesitate to call.

Checked By:

Harriet Torosyan

arriet orosyan

Project Manager

Approved By:

Corey Jones

Project Manager

Table of Contents

		Malibu High School (SMSD-20-9592) BBK0139	
1	Cover Letter		1
2	Sample Condition o	n Receipt	3
3	Chain of Custody		4
4	Cooler Receipt Form	m	5
5	Case Narrative		6
6	Samples Received		7
7	Positive Hits Summ	ary	9
8	Analytical Results		10
9	Quality Control Res	ults	15
10	Qualifiers and Defin	nitions	17



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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Sample Condition on Receipt

perature: 3.2 °C
n

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



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

CHAIN OF CUSTODY RECORD

(A)

TEST INSTRUCTIONS & COMMENTS 244 0790 Slan က TAO ST RELINQUISHED BY: Date 111 9/12 Printed Name Signature: Marmera anvera 7 13 8 AETL JOB NO. BAK 0139 **INALYSIS REQUESTED** RELINQUISHED BY: 11/9/12030 RECEIVED BY: printed Name: MUENTA STRIBUTION: WHITE - Laboratory, CANARY - Laboratory, PINK - Project/Account Manager, YELLOW - Sampler/Originator 3 EMAIL DUGLAND Dark NAWON PRES. (ECEIVED'B) SAMPLER: 5M5D-20-0592 PHONE 502-495-5777 NUMBER/SIZE CONTAINER PROJECT MANAGER DATA DELIVERABLE REQUIRED 60100 MATRIX 1 GEOTRACKER (GLOBAL ID) OTHER (PLEASE SPECIFY) BILLING INFORMATION / SPECIAL INSTRUCTIONS # Od 1200 TIME 1100 1105 1210 TOTAL NUMBER OF CONTAINERS: 140 10006 8215 Nony View Dr, Maliber HARD COPY
E-COPY
GEOTRACKER
OTHER (PLEA BA noy Squel Stur KBK0139.01 11 16 12020 62020 01010 Crorda GBKOFROT IIIN HOLD DATE Mr. [1 Jo 141, 4 School -のも からえ □ NEXT DAY 4 DAYS Las Bron LAB ID TURN AROUND TIME COMPANY ADDRESS 3777 SAME DAY RUSH 3 DAYS RUSH CB-44-2 CB-NW-3 CR-22ct SAMPLE ID CB-26-1 NORMAL ☐ 2 DAYS ☐ RUSH SITE NAME COMPANY ADDRESS Page 4 of 18



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

COOLER RECEIPT FORM

Client Name: NV 5				
Project Name:				
AETL Job Number: BBK0139				
	reived	by: (avot	a Girpgooston
Carrier: AETL Courier		GSL		FedEx UPS
Others:		OSL		redex LUPS
Liouters:				
Samula was made din M.C. 1. (
Samples were received in: Cooler () Inside temperature of shipping container No	1.0 a	ner (Spe	ecify):	NI- 2.
				, No 3:
Type of sample containers: ☐ VOA, ☐ Glass ☐ Metal sleeves, ☐ Others (Specify):	ounes,	Awi	ie mou	in jars, ⊔HDPE bottles,
How are samples preserved: \(\square \) None, \(\square \) Ice	□ D1	no Ioo		w. Loo
				ZnOAc, \square HCl, \square Na ₂ S ₂ O _{3,}
□ MeOH, □ Na		i NaO	п, ⊔	Zhoac, \Box Hel, \Box Na ₂ S ₂ O ₃ ,
☐ Other (Specify):	111304			
□ Other (specify).	Yes	No*	N/A	Name, if client was notified.
1. Are the COCs Correct?	1	110	IVA	1141116, ii cuent was notified.
2. Are Sample labels legible & indelible ink?	V			
3. Do samples match the COC?	V			
4. Are the required analyses clear?	1//			
5. Is there enough samples for required analysis?	/			
6. Does cooler or samples have custody seal(s)?	/		1/	
7. Are sample containers in good condition?	/			
8. Are samples preserved?	V			
9. Are samples preserved properly for the	1/			**
intended analysis?	V			
10. Are the VOAs free of headspace?			V/	
11. Are the jars free of headspace?			\vee	
* = see note below. N/A = Not Applicable				
PLEASE NOTE ALL SAMPLES WILL RECEIVING DATE. IF AETL IS IN BE A STORAGE CHARGE PER SAL HELD BEYOND 30 DAYS. *Explain all "No" answers for above quest	FOR! MPLE	MED	OTH	ERWISE, THERE WILL
-				
				*



3777 Long Beach Boulevard, Annex Building

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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SMSD-20-9592

AETL Job Number: BBK0139

Long Beach, CA 90807 Attention: Jonathan Barkman

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Site:

Malibu High School Bldg D 30215 Morning View Dr

Malibu, CA 90265

Case Narrative

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

Project Number:

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

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

No analytical non-conformances were encountered.

Qualifiers are noted in the report.



Client ID

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Samples Received

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

Project Name: Malibu High School Bldg D

Site: 30215 Morning View Dr Malibu, CA 90265

CB-NW-1		11/6/2020 11:00		
Lab ID	Matrix	Quantity of Containers		
BBK0139-01	Wipe	1		
Analysis	Units	TAT		
EPA 8082	ug/100cm2	5		
Client ID		Sample Date		
CB-NW-2		11/6/2020 11:05		
Lab ID	Matrix	Quantity of Containers		
BBK0139-02	Wipe	1		
Analysis	Units	TAT		
EPA 8082	ug/100cm2	5		
Client ID CB-NW-3		Sample Date 11/6/2020 12:00		
Lab ID	Matrix	Quantity of Containers		
BBK0139-03	Wipe	quantity of containers		
Analysis	Units	TAT		
EPA 8082	ug/100cm2	5		
Client ID		Sample Date		
CB-NW-4		11/6/2020 12:10		
Lab ID	Matrix	Quantity of Containers		
BBK0139-04	Wipe	1		
Analysis	Units	TAT		
EPA 8082	ug/100cm2	5		

Sample Date



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NV5 AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Samples Received

(Continued)

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

Project Name: Malibu High School Bldg D

Site: 30215 Morning View Dr Malibu, CA 90265

Client ID CB-E1		Sample Date 11/6/2020 11:45
Lab ID	Matrix	Quantity of Containers
BBK0139-05	Wipe	1
Analysis	Units	TAT
EPA 8082	ug/100cm2	5

Total Number of Samples received: 5



EPA 8082

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IV5 AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Positive Hits Summary

Lab IDClient IDReceivedBBK0139-02CB-NW-211/09/2020 17:15MethodAnalyteResult Qualifier UnitAnalyzed

0.0685

ug/100cm2

Aroclor-1254 (PCB-1254)

11/11/2020 16:43



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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Analytical Results

Client ID: CB-NW-1

Lab ID: BBK0139-01 (Wipe) Sampled: 11/06/20 11:00

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	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
	Recovery				Acceptano	ce Criteria					
Surrogate: Decachlorobiphenyl	55.8%				30-150		11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	79.7%				30-150		11/10/20 10:13	11/11/20 16:24	B0K0289	ATS	3540C



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Malibu High School Bldg D

AETL Job Number: BBK0139 Site:

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Analytical Results

Client ID: CB-NW-2

Lab ID: BBK0139-02 (Wipe) Sampled: 11/06/20 11:05

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	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	0.0685		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
	Recovery				Acceptance	ce Criteria					
Surrogate: Decachlorobiphenyl	67.8%				<i>30-150</i>		11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	103%				30-150		11/10/20 10:13	11/11/20 16:43	B0K0289	ATS	3540C



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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Analytical Results

Client ID: CB-NW-3

Lab ID: BBK0139-03 (Wipe) Sampled: 11/06/20 12:00

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	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
	Recovery				Acceptano	ce Criteria					
Surrogate: Decachlorobiphenyl	54.1%				30-150		11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	84.6%				30-150		11/10/20 10:13	11/11/20 17:02	B0K0289	ATS	3540C



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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Analytical Results

Client ID: CB-NW-4

Lab ID: BBK0139-04 (Wipe) Sampled: 11/06/20 12:10

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	11/10/20 10:13	11/11/20 17:41	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
	Recovery				Acceptano	ce Criteria					
Surrogate: Decachlorobiphenyl	34.0%				30-150		11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	93.8%				30-150		11/10/20 10:13	11/11/20 17:22	B0K0289	ATS	3540C



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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Analytical Results

Client ID: CB-E1

Lab ID: BBK0139-05 (Wipe) Sampled: 11/06/20 11:45

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	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1221 (PCB-1221)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1232 (PCB-1232)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1242 (PCB-1242)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1248 (PCB-1248)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1254 (PCB-1254)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1260 (PCB-1260)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1262 (PCB-1262)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Aroclor-1268 (PCB-1268)	ND		1	0.0200	0.0500	ug/100cm2	11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
	Recovery				Acceptano	ce Criteria					
Surrogate: Decachlorobiphenyl	85.1%				<i>30-150</i>		11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C
Surrogate: Tetrachloro-m-xylene	69.7%				30-150		11/10/20 10:13	11/11/20 18:01	B0K0289	ATS	3540C



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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Quality Control Results

PCBs (EPA 8082)

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B0K0289 - 3540C					Prepared:	11/10/2	020 10:13				
Method Blank (B0K0289-BLK1)					Analyzed:	11/11/2	020 12:12				
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	0.0345			ug/100cm2	0.0500		68.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.0504			ug/100cm2	0.0500		101	30-150			



3777 Long Beach Boulevard, Annex Building

AMERICAN ENVIRONMENTAL TESTING LABORATORY

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AETL Job Number: BBK0139 Site: Malibu High School Bldg D

Project Number: SMSD-20-9592 30215 Morning View Dr
Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Quality Control Results

PCBs (EPA 8082)

Long Beach, CA 90807

Analyte	Result	MDL	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier		
Batch: B0K0289 - 3540C (C	ontinued)				Prepared	11/10/2	020 10:13						
LCS (B0K0289-BS1)	,				-	11/11/2							
Aroclor-1016 (PCB-1016)	0.824	0.0200	0.0500	ug/100cm2	1.00		82.4	50-150					
Aroclor-1260 (PCB-1260)	0.729	0.0200	0.0500	ug/100cm2	1.00		72.9	50-150					
Surrogate: Decachlorobiphenyl	0.0403			ug/100cm2	0.0500		80.6	30-150					
Surrogate: Tetrachloro-m-xylene	0.0437			ug/100cm2	0.0500		87.4	30-150					
LCSD (B0K0289-BSD1)		Analyzed: 11/11/2020 11:53											
Aroclor-1016 (PCB-1016)	0.936	0.0200	0.0500	ug/100cm2	1.00		93.6	50-150	12.6	40			
Aroclor-1260 (PCB-1260)	0.805	0.0200	0.0500	ug/100cm2	1.00		80.5	50-150	9.91	40			
Surrogate: Decachlorobiphenyl	0.0398			ug/100cm2	0.0500		79.5	30-150					
Surrogate: Tetrachloro-m-xylene	0.0447			ug/100cm2	0.0500		89.4	30-150					



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NV5 AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

Qualifiers and Definitions

ItemDefinitions% wtPercent Weight%RECPercent Recovery°CDegrees Celsius

AETL American Environmental Testing Laboratory, LLC

C Carbon

CARB California Air Resources Board

COC Chain of Custody
DRO Diesel Range Organics

Dup Duplicate

ELAP Environmental Laboratory Accreditation Program

EPA Environmental Protection Agency

GRO Gasoline Range Organics

HC Hydrocarbon

LACSD Los Angeles County Sanitation Districts

LCS Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of

analytes.

LCSD Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.

LOQ Limit of Quantitation

MDL Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence.

MDL is statistically derived number which is specific for each instrument, each method and each compound.

mg/kg Miligrams per Kilogram
mg/L Miligrams per Liter
MRO Motor oil Range Organics

MS Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as

an independent test results.

MSD Matrix Spike Duplicate - A replicate of Matrix Spike Sample.

N No

ND Analyte is not detected below Method Detection Limit.

ng/m3 Nanograms per cubic meter

NIOSH National Institute for Occupational Safety and Health

nL/L Nanoliters per Liter

NTU Nephelometric Turbidity Units

Ohm-cm Ohms per centimeter

OSHA Occupational Safety and Health Administration

PCB Polychlorinated Biphenyl

RL Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be

 $reported \ with \ a \ specified \ degree \ of \ confidence, \ accuracy \ and \ precision. \ For \ usage \ at \ AETL, \ RL \ is \ equivalant \ to \ LOQ.$

RPD Relative Percent Difference



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NV5 AETL Job Number: BBK0139 Site: Malibu High School Bldg D

3777 Long Beach Boulevard, Annex Building Project Number: SMSD-20-9592 30215 Morning View Dr Long Beach, CA 90807 Attention: Jonathan Barkman Malibu, CA 90265

Project Name: BldgD-Catch Basin Reported: 11/16/2020 10:34

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

MMHS Building D Stormwater System – PCB Removal Clearance Letter

APPENDIX C

Waste Manifests



1715 70



Ticket: 1662

US Ecology Nevada 11 Miles South of Beatty Beatty, NV 89003

TICKE 1

Vehicle: 226

Manifest #:019418848JJK

Date: Time In:

12/15/2020 12:15 PM

Time Out:

01:33 PM

In: Out: 59180 lb 52520 lb

Net:

6660 lb

Net Tons:3.33 tons

Net Kg: 3021 kilograms