PCB DELINEATION AND SOURCE BULK SAMPLING REPORT

Malibu High School
Building H (Cafetorium)
30215 Morning View Drive
Malibu, California 90265

Prepared for:

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

Project No.: SMSD-17-7294
Reported Date: May 1, 2018 (Final)

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EXECUTIVE SUMMARY

On behalf of the Santa Monica-Malibu Unified School District (District), Alta Environmental (Alta) has prepared this report summarizing the delineation and bulk sampling activities completed in Building H (Cafetorium) at Malibu High School located at 30215 Morning View Drive, Malibu, California 90265. The delineation and bulk sampling activities were conducted to determine the potential presence of polychlorinated biphenyl compounds (PCBs) in door caulking, window caulking and glazing, vent caulking and vinyl floor tile and mastic in order to characterize the materials for off-site waste disposal in areas affected by the DSA approved drawings.

Based on the delineation and source sampling results and in consultation with the SMMUSD, the sampled building materials are categorized as follows:

1. PCB Bulk Product Waste
    1. Door caulking and associated window caulking around doorframe 605G, and at least 12 inches of surrounding interior plaster,
    2. Door caulking around doorframe 606B, and at least 12 inches of surrounding interior plaster, and
    3. Door caulking around doorframe 607A, and at least 15 inches of surrounding interior plater, and one inch of exterior brick,
    4. Door caulking around doorframe 608B, and at least 12 inches of surrounding interior plaster,
    5. Vent louver caulking around two south vents (top of wall louvers), and 3 inches of surrounding brick.
2. Excluded PCB Product
    1. All remaining door caulking around doorframes included in the scope of work,
    2. Exterior window caulking and window glazing,
    3. Floor tiles included in the scope of work, and
    4. Vent caulking around north side and east side (mechanical rom) vents. No vents were observed on the west elevation.

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

Excluded PCB Product, is not regulated by the US Environmental Protection Agency (US EPA) under the Toxic Substances Control Act (TSCA).

Other building related regulated substances (lead and asbestos) were determined to be present at the subject locations and it is Alta's understanding that the demolition contractor will adhere to other regulatory requirements for handling and disposal of identified asbestos-containing materials and lead-based paints.

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

ATTENTION: Mr. Roger Banuelos

REF: PCB Delineation and Source Bulk Sampling Report
Building H (Cafetorium)
Malibu High School
30215 Morning View Drive, California 90265

1 INTRODUCTION/BACKGROUND

The United States Environmental Protection Agency (USEPA) believes that there was a potentially widespread use of PCB-containing building materials in schools and other buildings build or renovated between 1950 and 1979. Historically, PCBs were used as a primary source as a plasticizing agent in caulking and glazing materials, as additives to paints and floor finishes, as a sealant for heating systems and plumbing, and as insulators in ballast and other electrical equipment. The manufacture and use of PCBs were banned in the United States in 1976, and PCB compounds were phased out between 1978 and 1979. Building H was constructed in 1963, which indicates a potential to contain PCBs.

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

Building H (Cafetorium) is a single-story building of brick construction with interior plaster walls, vinyl floor tiles, built on a concrete slab foundation. The suspect sampled PCB components are described below:

- Windows frames inspected and sampled are installed on the exterior perimeter on the North, East and South Elevation (no windows were observed on the West elevation). The windows are of metal construction encased in brick, and plaster walls. The components are of different shapes and sizes.

- Doorframes inspected and sampled are installed both on the exterior and interiors of the building. The door types are identified as A:S, A:D, and F:D type doorframes, based on the DSA approved project drawings. The components are all painted metal encased in brick, and plaster. All doorframes were inspected, and all door caulking was sampled in each component if observed.

- Vents (louvers) inspected and sampled are installed on the exterior perimeter on the East side (only one) at mechanical room, and South side (two vents at mid wall). The vents are of metal construction encased in brick, and plaster walls. The components are of different shapes and sizes. No calking was observed on North vents and no vents were observed on the West elevation.

- The vinyl floor tiles are 12”x12” grey (speckled pattern) with yellow glue. The area inspected and sampled per DSA drawings is limited to Dressing room (687), hallway (674), dry storage room 605C, student store (617), storage (618), office (619, boys and girls restrooms) (620, and 621) as per DSA approved drawings. No other areas were inspected.

2 PURPOSE OF INSPECTION AND SAMPLING

Building materials included in this report were evaluated for PCBs only. A survey of asbestos-containing materials (ACM) and lead-based paint (LBP) has been completed for this building. The results and findings for ACM and LBP are included in a separate document.

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

- Serve as a representative indication of the variety of potentially PCB-impacted materials
- Draw conclusions of the potential presence of PCB-impact materials
- Determine if a site-specific remediation work plan is required to address materials with ≥50 parts per million (ppm) PCBs prior to undertaking the demolition and disposal of building materials; and,
- Categorize each type of building material for off-site disposal related solely to its PCB content. In general, PCB-impacted materials can be sorted and classified into the following categories:
    - PCB Bulk Product Waste (≥ 50 ppm). According to Environmental Protection Agency (EPA) Memorandum, "PCB Bulk Product Waste Reinterpretation," dated October 24, 2012, building materials "coated or serviced" with PCB bulk product waste (e.g., caulk, paint, mastic, sealants) at the time of designation for disposal are to be managed as a PCB bulk product waste. The reinterpretation document allows for disposal of both PCB Bulk Product Waste and PCB Remediation Waste together as a single waste stream (PCB Bulk Product Waste).
    - Excluded PCB Product-all materials containing <50 ppm.

3 SCOPE OF SERVICES

The District retained Alta for the delineation and subsequent source bulk sampling (Alta proposal dated, October 23, 2017).

The sampling was completed in accordance with the *USEPA Region I Standard Operation Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyl* (USEPA 2011).

Initially, Alta collected delineation sampling of representative porous materials installed adjacent to suspect PCB containing door caulking, window caulking and vent caulking. The sampling was completed on several days on, November 16 and 20, 2017, and December 14, and 26, 2017. The objective of the sampling was to determine if suspected PCBs may have migrated to adjacent porous materials.

- On November 16, 2017, delineation samples were collected at one-inch (1"), three-inch (3"), and six-inch (6") interval away from representative suspect PCB. All samples were reported as non-detected, at the laboratory Actual Detection Limit (DL) of 1ppm, except for one doorframe location representative of interior plaster substrate (door type F:D, door 607A). All three samples 1", 3", and 6" were reported with PCBs above 1ppm.
- On December 14, 2017, additional samples were collected at nine-inch (9") and twelve-inch (12") intervals away from doorframe 607A, and the results were also reported above 1ppm.
- On December 26, 2017, additional samples were collected at the 15-inch, 18-inch (18"), and 21-inch intervals away from doorframe 607A, all three samples were as non-detected.
- A total of 31 samples including duplicated collected and analyzed.

Based on the delineation sampling results, Alta, at the direction of the District, collected source bulk samples of the suspect PCBs, window caulking and glazing, door caulking, vent caulking and vinyl floor tiles and mastic. The sampling was conducted on several days on, December 1, and 14, 2017, and February 12, and 27, 2018.

- Initially on December 1 and 14, three samples representative of each homogeneous suspected PCBs window and door caulking, window glazing, and vent caulking were collected. For small localized areas, a minimum of one sample was collected.
- On February 12, 2017, three samples representative of each homogeneous suspect PCB vinyl floor tile and mastic were collected.
- On February 27, 2018, additional bulk sampling of the door caulking was collected. All doorframes containing suspect PCB door caulking were sampled. Results of the door caulking materials were initially reported as inconsistent (based on 12/1 and 12/14/17 sampling), and the District suspected that the suspect door caulking may be of a different sources.
- A total of 61 samples including duplicate and split duplicates were collected and analyzed.

Alta's delineation and source bulk sampling were completed as follows:

- A one-inch drill, screwdriver, razor blade, chisel, or similar tool was used to collect the samples.
- A polyethylene drop-sheet was placed below the impacted area to capture any dust and debris which may have dislodged during the sample collection.
- Samples were labeled, packaged, and documented on a chain of custody for shipping to the laboratory.
- Samples were shipped to the laboratory in a chilled ice chest.
- Sampled areas were patched using a non-PCBs sealant. The patch area is temporary, intended only to provide a barrier to the exposed sampled substrates.
- Each sample location was documented using digital photographs.
- Equipment and tools were decontaminated using a two-step decontamination process. First, all used tools were cleaned using scrub brushes and detergent with de-ionized water base solution. Second, each piece was rinsed using de-ionized water. After the two-step decontamination procedures, the equipment was placed on top of clean paper towels (or equivalent material) and set to dry individually. Each piece of equipment was inspected by Alta for evidence of residual dust and debris.
- Waste was packaged on site inside one one-gallon bucket and labeled. After review of the sample results, it was determined that the waste was Excluded PCB Product.

4 METHODOLOGY

The Actual Detection Limit (DL) used by the laboratory for this project was 0.5 ppm. In some cases, the DL was raised above 0.5 ppm due to matrix interferences, but in those cases, the DL did not exceed ≥ 50 ppm, which is currently being used as approved by the USEPA to defined PCB Bulk Product Waste.

All samples were analyzed in accordance with EPA Method 8082A with Soxhlet Extraction US EPA Method 3540C for Aroclors.

5 RESULTS

Table 1.0
Summary of Collected Samples

Building H -Cafetorium (1931 Construction)				
Component Sampled	**Total components to be removed**	**Sample Description**	**Sample Numbers/Sample Location**	**Result (PPM) (Aroclor 1254)**
16'x4' glass with metal frame (North Elevation)	1	Delineation Sample	1120-04 (1") / North elevation	Non-detected
		Source Bulk Sample (caulking and glazing)	1201-10 / North elevation 1201-11 / North elevation	Non-detected Non-detected
Interior window	1	Delineation sample	1116-29 (1") 605G	Non-detected
		Source Bulk Sample (caulking)	1201-19 / 605G	50.8 ppm
Note: the interior window is embedded with door 605G forms one system (window and door). Sample #1201-19 was collected from the door caulking				
14'x2' glass with metal frame (South and East Elevation)	3	Delineation Sample	1120-10 (1")-South elevation 1120-16 (1")-East elevation 1120-18 (1")-East elevation	Non-detected Non-detected Non-detected
		Source Bulk Sample (caulking)	1201-01 / East elevation 1201-09 / South elevation	1.83 ppm 2.88 ppm
2'x3' glass with frame (South Elevation	6	Delineation Sample	1120-13 (1") / South elevation	Non-detected
		Source Bulk Sample (Caulking and glazing)	1201-03 / South elevation 1201-04 / South elevation 1201-05 / South elevation 1201-06 / South elevation 1201-07 / South elevation 1201-08 / South elevation	2.79 Non-detected Non-detected Non-detected Non-detected Non-detected
Vent louver (North Elevation)	4	Delineation Sample	1120-01 (1") / North elevation	Non-detected
		No vent caulking observed. No sampling required		
Vent louver (East Elevation)	1	Delineation Sample	1120-07 (1") / East elevation 1214-21 (6") / East elevation 1226-04 (9") / East elevation 1226-05 (12") / East elevation 1226-06 (15") / East elevation	Non-detected 2.99 ppm Non-detected Non-detected Non-detected

		Source Bulk Sample (caulking)	1214-20 / East elevation	Non-detected
Vent louver (South Elevation)	2	Delineation Sample	1120-28 (1”) / South elevation 1120-29 (3”) / South elevation, 1120-30 (6”) / South elevation	3.25 ppm 0.922 ppm Non-detected
		Source Bulk Sample (caulking)	1201-12 / South elevation	118 ppm
Note: No vent louvers were observed on the West elevation				
Doorframe (A:S, and A:D)		Delineation samples	1120-22 (1”) / 600J 1120-25 (1”) / 600A 1116-32 (1”) / 606A 1116-42 (1”) 605B 1116-45 (1”) / 603A	Non-detected Non-detected Non-detected Non-detected Non-detected
		Source door caulking	22718-SF21 / 600J 1201-27 / 600A 22718-SF08 /606A 22718-SF27 / 605B 22718-SF25 / 603A	Non-detected Non-detected 14.1 ppm 5.05 ppm 3.97 ppm
Doorframe (A:S, A:D and F:D)		Source door caulking	1201-14 / 610A 1201-15 / 620A 1201-16 / 681A 1201-17 / 654B 1201-18 / 605N 1201-20 / 658 A 1201-21 / 605 C 1201-22 / 609A 1201-23 / 605H 1201-24 / 668A 1201-25 652A 22718-SF01 /605A 22718-SF03 /608A 22718-SF04 /617B 22718-SF05 /617A 22718-SF06 /609C 22718-SF09 /605F 22718-SF10 / 605 NE 22718-SF11 / 605 North 22718-SF12 / 664A 22718-SF13 / 666A 22718-SF14 / 621A 22718-SF15 / 678 SW 22718-SF16 / 610A 22718-SF17 / 600K 22718-SF18 / 674A 22718-SF19 / 654A 22718-SF20 / 654B 22718-SF22 / 658B	Non-detected Non-detected Non-detected Non-detected 16.7 ppm Non-detected Non-detected Non-detected Non-detected Non-detected Non-detected Non-detected 24.9 ppm 4.52 ppm 12.6 ppm Non-detected Non-detected 16.9 ppm 19.1 ppm 16.6 ppm 6.8 ppm Non-detected 1.74 ppm 0.67 ppm 1.62 ppm 2.65 ppm 4.18 ppm 2.16 ppm 2.37 ppm

			22718-SF24 / 656A 22718-SF26 / 670A	1.86 ppm 1.75 ppm
Doorframe (A:S)		Delineation samples	No samples have been collected at this time. Assumed PCB containing the first 12 inches of surrounding porous materials	
		Source door caulking	1201-19 / 605G 22718-SF02 / 608B 22718-SF-07 / 606B	50.8 ppm 80.7 ppm 12,500 ppm
Doorframe (F:D)	2	Delineation Sample	1116-35 (1") exterior / 607A 1116-38 (1") interior / 607A 1116-40(3") interior / 607A 1116-41(6") interior / 607A 1214-13(9") interior / 607A 1214-14(12") interior / 607A 1226-01(15") interior / 607A 1226-02(18") interior / 607A 1226-03(22") interior / 607A	Non-detected 2.49 ppm 2.6 ppm 1.56 ppm 1.27 ppm 1.02 ppm Non-detected Non-detected Non-detected
		Source Bulk Sample	Not sampled / 607A	Assumed PCB
12"x12" grey marbled floor tile and yellow glue		Floor tile	212-01 / 674 212-03 / 679 212-05 / 672	Non-detected
		Yellow glue	212-02 / 674 212-04 / 679 212-06 / 672	Non-detected

These materials are further defined in Appendix A of this report.

Refer to Appendix B for laboratory analysis reports and relevant sample analysis information.

6 QUALITY CONTROL

All samples were analyzed in accordance with EPA Method 8082A with Soxhlet Extraction US EPA Method 3540C for Aroclors.

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

In addition to the primary samples, Alta collected field duplicate samples, collected side by side next to the primary sample and split-duplicates prepared by homogenizing the sampled material and splitting it into two identical samples.

Sample extraction and analysis was completed by:

- Enviro-Chem, located at 1214 East Lexington Avenue, Pomona, California. Contact Curtis Desilets (949) 539-4966. Enviro-Chem is a laboratory accredited by the California State Environmental Laboratory Accreditation Program (ELAP), and

- Eurofins/Calsicence, located at 7440 Lincoln Way, Garden Grove, California 92841. Contact Vikas Patel (714) 895-5494. Eurofins/Calscience is a laboratory accredited by the California State Environmental Laboratory Accreditation Program (ELAP).

Results of duplicate samples and split duplicate samples were reported as consistently within acceptable analytical limits.

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.

7 CONCLUSIONS

Based on the delineation and source sampling results and in consultation with the SMMUSD, the sampled building materials are categorized as follows:

3. PCB Bulk Product Waste

    6. Door caulking and associated window caulking around doorframe 605G, and at least 12 inches of surrounding interior plaster,
    7. Door caulking around doorframe 606B, and at least 12 inches of surrounding interior plaster, and
    8. Door caulking around doorframe 607A, and at least 15 inches of surrounding interior plater, and one inch of exterior brick,
    9. Door caulking around doorframe 608B, and at least 12 inches of surrounding interior plaster,
    10. Vent louver caulking around two south vents (top of wall louvers), and 3 inches of surrounding brick.

4. Excluded PCB Product

    5. All remaining door caulking around doorframes included in the scope of work,
    6. All exterior window caulking and window glazing,
    7. All floor tiles included in the scope of work, and
    8. All vent caulking around north side and east side (mechanical rom) vents. No vents were observed on the West elevation.

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

Excluded PCB Product, is not regulated by the US Environmental Protection Agency (US EPA) under the Toxic Substances Control Act (TSCA).

Other building related regulated substances (lead and asbestos) were determined to be present at the subject locations and it is Alta's understanding that the demolition contractor will adhere to other regulatory requirements for handling and disposal of identified asbestos-containing materials and lead-based paints.

8 RECOMMENDATIONS

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

9 ASSUMPTIONS AND LIMITATIONS

The delineation and source bulk sampling activities were conducted to determine the potential presence of polychlorinated biphenyl compounds (PCBs) in door caulking, window caulking and glazing, vent caulking and vinyl floor tile and mastic in order to characterize the materials for off-site waste disposal in areas affected by the DSA approved drawings.

The results are intended for use by the District and its contractors to characterize generated waste building materials for disposal, based in part on the reported PCB content during the demolition of the building.

This report was prepared exclusively for use by Santa Monica-Malibu Unified School District, and may not be relied upon by any other person or entity without Alta Environmental's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta Environmental cannot be responsible for the impact of any changes in environmental standards, practices or regulations after the performance of services.

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

As applicable, Alta Environmental has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta Environmental will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta Environmental makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

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

10 SIGNATORY

Respectfully submitted by:

Alta Environmental

Cesar Ruvalcaba
Project Manager

Respectfully submitted by:

Alta Environmental

David Schack
VP, Building Sciences

Appendix A
Sample Inventories

Summary of Delineation Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7294
PROJECT: Malibu Building H
Date: November 16, 20, and December 14 and 26, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Total PCBs (ppm) (Arcolor 1254)
H	1120-01	Lower vent	Brick	North side, east vent left side approximately 3' up exterior , 1"	Non-Detected
H	1120-04	Window (16'x4')	Brick	North side window interior approximately 6' up, 1"	Non-Detected
H	1120-07	Lower vent	Brick	East elevation, left side approximately 3' up exterior, 1"	Non-Detected
H	1120-10	Window (14'x2')	Brick	South side window right side 8' up, 1"	Non-Detected
H	1120-13	Window (2'x3')	Plaster	South side window right side 4' up interior, 1"	Non-Detected
H	1120-16	Window (14'x2')	Plaster	East side window interior 6' up interior, 3"	Non-Detected
H	1120-18	Window (14'x2')	Brick	East side window exterior 6' up, 1"	Non-Detected
H	1120-19	Window (14'x2')	Brick	Side by side duplicate sample of 1120-19	Non-Detected
H	1120-22	Door frame (A:S)	Concrete	Stage door (600J) left side 3' up interior, 1"	Non-Detected
H	1120-25	Door frame (A:S)	Brick	West exterior door (600A), left side of door 3' up exterior, 1"	Non-Detected
H	**1120-28**	**Lower vent**	**Brick**	**Vent on south elevation, on right side 10' up exterior, 1"**	**3.25**
H	1120-29	Lower vent	Brick	Vent on south elevation, on right side 10' up exterior, 3"	0.922
H	1120-30	Lower vent	Brick	Vent on south elevation, on right side 10' up exterior, 6"	Non-Detected
H	1116-29	Window (interior)	Plaster	605G west windows 2' up, interior 1"	Non-Detected
H	1116-32	Door frame (A:S)	Plaster	Room 606 north door (606A), 2' up interior, 1"	Non-Detected
H	1116-35	Door frame (F:D)	Brick	607A east door exterior, 3' up, 1"	Non-Detected

Summary of Delineation Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7294
PROJECT: Malibu Building H
Date: November 16, 20, and December 14 and 26, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Total PCBs (ppm) (Arcolor 1254)
H	**1116-38**	**Door frame (F:D)**	**Plaster**	**607A east door interior, 3' up, 1"**	**2.49**
H	**1116-39**	**Door frame (F:D)**	**Plaster**	**Side by side duplicate sample of 1116-38**	**2.59**
H	**1116-40**	**Door frame (F:D)**	**Plaster**	**607A east door interior, 3' up, 3"**	**2.60**
H	**1116-41**	**Door frame (F:D)**	**Plaster**	**607A east door interior, 3' up, 6"**	**1.56**
H	**1214-13**	**Door frame (F:D)**	**Plaster**	**607A east door interior, 3' up, 9"**	**1.27**
H	**1214-14**	**Door frame (F:D)**	**Plaster**	**607A east door interior, 3' up, 12"**	**1.02**
H	1226-01	Door frame (F:D)	Plaster	Storage Room on left side of door, 3' up, 15"	Non-Detected
H	1226-02	Door frame (F:D)	Plaster	Storage Room on left side of door, 3' up, 18"	Non-Detected
H	1226-03	Door frame (F:D)	Plaster	Storage Room on left side of door, 3' up, 22"	Non-Detected
H	1116-42	Door frame (A:S)	Plaster	605B west door interior, 3' up, 1"	Non-Detected
H	1116-45	Door frame (A:S)	Brick	603A west door exterior, 3' up, 1"	Non-Detected
H	**1214-21**	**Vent**	**Brick**	**Mechanical room, east a wall vent interior, south end, 6"**	**2.99**
H	1226-04	louver vent	Brick	East louver vent, on left side of vent, 2' up, 9"	Non-Detected
H	1226-05	louver vent	Brick	East louver vent, on left side of vent, 2' up, 12"	Non-Detected
H	1226-06	louver vent	Brick	East louver vent, on left side of vent, 2' up, 15"	Non-Detected

Summary of Source Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7294
PROJECT: Malibu Building H
Date: December 1, 12, 14, and 27, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Total PCBs (ppm) (Arcolor 1254)
H	1201-01	14'x2' window	Window caulking	East elevation 14'x2' window, right side, 7 ft. up	1.83
H	1201-03	2'x3' window	Window caulking	South elevation, 2'x3' serving window farthest east window, 4 ft. up	2.79
H	1201-04	2'x3' window	Window caulking	South elevation, Middle 2'x3' serving window 4 ft. up	Non-Detected
H	1201-05	2'x3' window	Window caulking	South elevation, Farthest west window, 4 ft. up	Non-Detected
H	1201-06	2'x3' window	Window glazing	South elevation, Farthest east serving window, 4 ft. up	Non-Detected
H	1201-07	2'x3' window	Window glazing	South elevation, Middle serving window, 4 ft. up	Non-Detected
H	1201-08	2'x3' window	Window glazing	South elevation, Farthest west serving window, 4 ft. up	Non-Detected
H	1201-09	14'x2' window	Window caulking	South elevation, 14'x2' window on south side of building on right side, 4 ft. up	2.88
H	1201-10	16'x4' window	Window caulking	North elevation, 16'x4' window on north side of building, right side, 4 ft. up	Non-Detected
H	1201-11	16'x4' window	Window glazing	North elevation, 16'x4' window on north side of building, right side, 4 ft. up	Non-Detected
H	**1201-12**	**Vent (top of wall)**	**Vent caulking**	**South Elevation, Vent on south side 14 ft. up**	**118**
H	1201-14	A: S door	Door caulking	A: S, 610A on right side 4 ft. up	Non-Detected
H	1201-15	A: S door	Door caulking	A: S, 620A on right side 3 ft. up	Non-Detected
H	1201-16	A: S door	Door caulking	A: S, 681A	Non-Detected
H	1201-17	A: S door	Door caulking	A: S, 654B	Non-Detected

Summary of Source Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7294
PROJECT: Malibu Building H
Date: December 1, 12, 14, and 27, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Total PCBs (ppm) (Arcolor 1254)
H	1201-18	A: S door	Door caulking	A: S, 605N	16.7
H	**1201-19**	**A: S door**	**Door caulking**	**A: S, 605G**	**50.8**
H	1201-20	A: S door	Door caulking	A:S, 658A	Non-Detected
H	1201-21	A: S door	Door caulking	A:S, 605C	Non-Detected
H	1201-22	A: S door	Door caulking	A: S, 609A	Non-Detected
H	1201-23	A: S door	Door caulking	A:S, 605H	Non-Detected
H	1201-24	A: D door	Door caulking	A: D, 668A	Non-Detected
H	1201-25	A: D door	Door caulking	A: D, 15 652A	Non-Detected
H	1201-26	A: S door	Door caulking	Side by side duplicate with sample number 1201-25	Non-Detected
H	1201-27	A: D door	Door caulking	Doorframe 600A	Non-Detected
H	1201-28	A: D door	Door caulking	Split duplicate sample with 1201-27	Non-Detected
H	1214-20	Vent	Interior Vent Caulking Source	East elevation, Mechanical room - east wall vent south end	Non-Detected
H	212-01	Concrete floors	12" grey speckled floor tile	Northeast stairwell behind stage, northeast corner	Non-Detected
H	212-02	Concrete floors	Yellow glue for grey speckled floor tile	Northeast stairwell behind stage, northeast corner	Non-Detected
H	212-03	Concrete floors	12" grey speckled floor tile	Girls dressing room, northwest corner	Non-Detected

Summary of Source Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7294
PROJECT: Malibu Building H
Date: December 1, 12, 14, and 27, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Total PCBs (ppm) (Arcolor 1254)
H	212-04	Concrete floors	Yellow glue for grey speckled floor tile	Girls dressing room, northwest corner	Non-Detected
H	212-05	Concrete floors	12" grey speckled floor tile	East storage room, north center	Non-Detected
H	212-06	Concrete floors	Yellow glue for grey speckled floor tile	East storage room, north center	Non-Detected
Note: The flooring sampling was limited to ONLY the areas impacted where the floor is going to be removed and replaced per the DSA drawings. The sampling was limited to: Dressing room (687), hallway (674), dry storage room 605C, student store (617), storage (618), office (619, boys and girls restrooms (620, and 621). The student store, storage, office, and boys and girls restrooms have concrete or ceramic floors. Per District scope of work, no sampling was required.					
H	22718-SF01	A: S door	Door caulking	West side of door about middle - interior, 605A	Non-Detected
H	**22718-SF02**	**A: S door**	**Door caulking**	**East side lower corner - interior, 608B**	**80.7**
H	22718-SF03	A: S door	Door caulking	East side lower corner - interior, 608A	24.9
H	22718-SF04	A: S door	Door caulking	West side lower corner - interior , 617B	4.52
H	22718-SF05	A: S door	Door caulking	East side lower corner - interior, 617A	12.6
H	22718-SF06	A: S door	Door caulking	East side about center - exterior , 609C	Non-Detected
H	**22718-SF07**	**A: S door**	**Door caulking**	**East side lower corner - interior, 606B**	**12,500**
H	22718-SF08	A: S door	Door caulking	East side about center - interior, 606A	14.1
H	22718-SF09	A: S door	Door caulking	East side about center - interior, 605F	Non-Detected
H	22718-SF10	A: S door	Door caulking	East side about center - interior, 605, NE door	16.9
H	22718-SF11	A: S door	Door caulking	West side about center - interior, 605 N. door	19.1

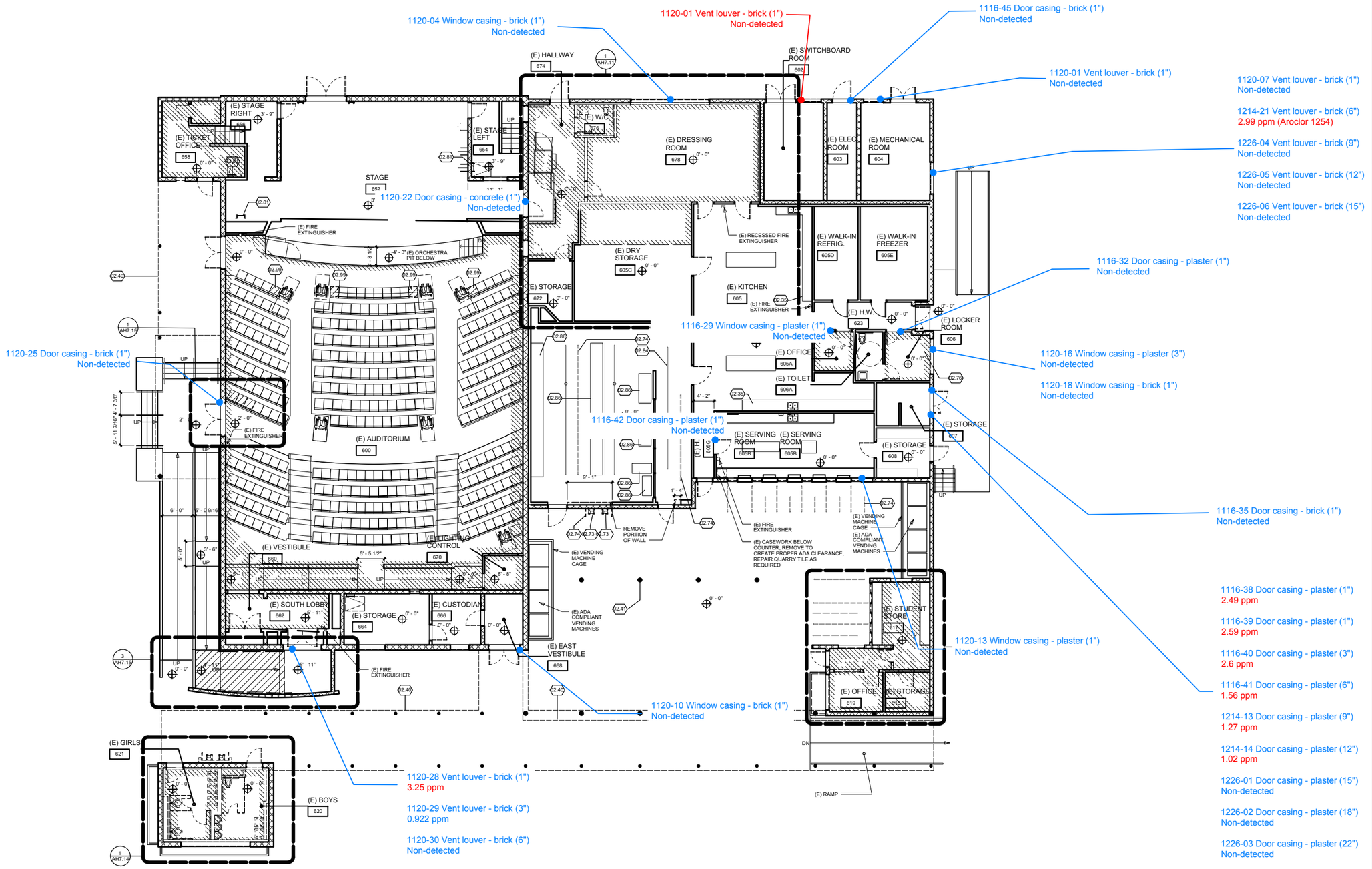
Summary of Source Samples

CLIENT: SMMUSD
PROJECT NO: SMSD-17-7294
PROJECT: Malibu Building H
Date: December 1, 12, 14, and 27, 2017

Building Name	Sample Number	Component ID	Sample Description	Sample Location	Total PCBs (ppm) (Arcolor 1254)
H	22718-SF12	A: S door	Door caulking	East side lower corner - interior, 664A	16.6
H	22718-SF13	A: S door	Door caulking	West side lower corner - interior, 666A	6.8
H	22718-SF14	A: S door	Door caulking	West side about center - exterior, 621A	Non-Detected
H	22718-SF15	A: S door	Door caulking	East side lower corner - interior, 678 SW door	1.74
H	22718-SF16	A: S door	Door caulking	East side lower corner - interior, 610A	0.67
H	22718-SF17	A: S door	Door caulking	East side lower corner - interior, 600K	1.62
H	22718-SF18	A: S door	Door caulking	East side about center - exterior, 674A	2.65
H	22718-SF19	A: S door	Door caulking	West side about center - interior, 654A	4.18
H	22718-SF20	A: S door	Door caulking	East side about center - interior, 654B	2.16
H	22718-SF21	A: S door	Door caulking	East side about center - interior, 600J	3.69
H	22718-SF21D	A: S door	Door caulking	Duplicate sample with 22718-SF21 (note: sample analysis by eurofins/Cal Science	Non-Detected
H	22718-SF22	A: S door	Door caulking	East side about center - interior, 658B	2.37
H	22718-SF23	A: S door	Door caulking	Split duplicate sample with 22718-SF22 (note: sample analysis by eurofins/Cal Science	Non-Detected
H	22718-SF24	A: S door	Door caulking	West side about center - interior, 656A	1.86
H	22718-SF25	A: S door	Door caulking	East side about center - interior, 603A	3.97
H	22718-SF26	A: S door	Door caulking	West side lower corner - interior, 670A	1.75
H	22718-SF27	A: S door	Door caulking	West side about center - interior, 605B	5.05

Note: No sampling required for the louvers located on the north elevation (4), no caulking was observed.
Boys and girls restrooms have ceramic floor tiles, student store has concrete floors. No sampling required.

Appendix B
Sample Location Maps



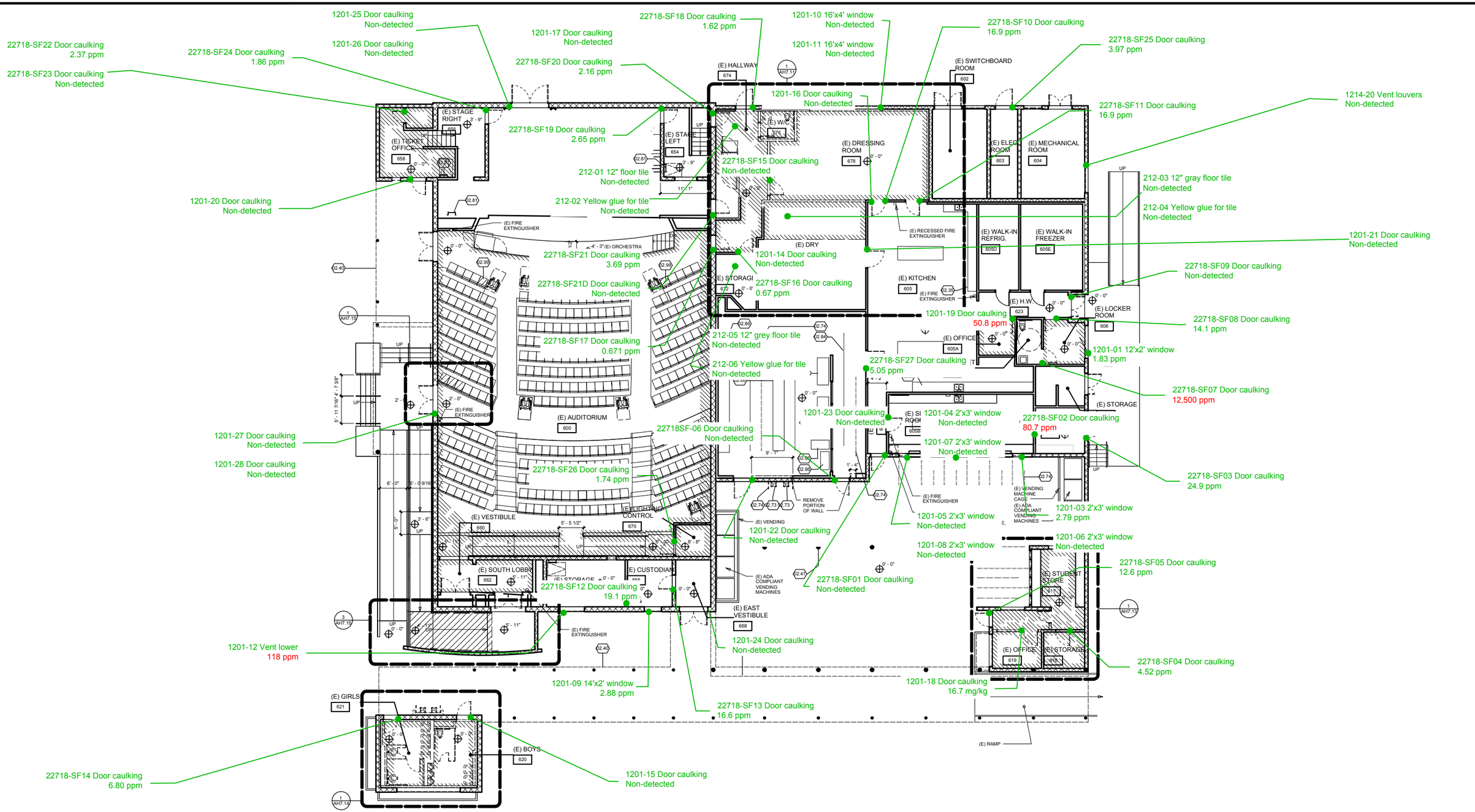
Note: Locations are approximate

Bulk Delineation PCB Sample Location Map

Building H
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.altaenviron.com

DATE: March 2018 | Project No.: SMSD-17-7294



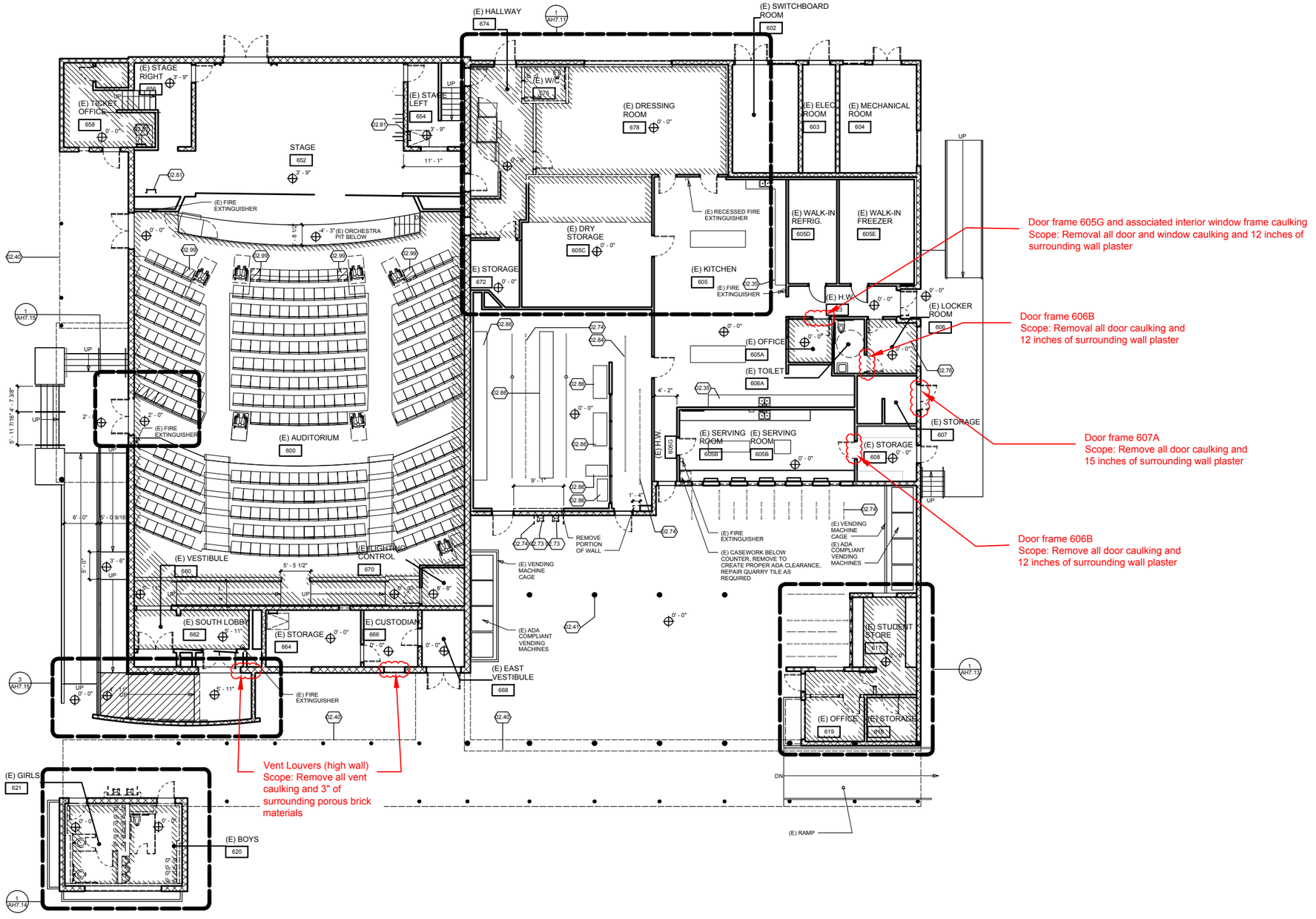
Note: Locations are approximate

Bulk Source PCB Sample Location Map

Building H
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.altaenviron.com

DATE: March 2018 | Project No.: SMSD-17-7294



PCB Component Location Map

Building H
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.altaenviron.com

DATE: March 2018 | Project No.: SMSD-17-7294

Appendix C
Laboratory Reports

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

Date: November 28, 2017

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

Project: **Malibu High - Bldg. H**
Lab I.D.: **171117-59 through -77**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on November 17, 2017, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 Email:Cesar.Ruvalcaba@altaenviron.com
PROJECT: **Malibu High - Bldg. H**

DATE SAMPLED:11/16/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:11/17/17
DATE EXTRACTED:11/20-21/17
DATE ANALYZED:11/21/17
DATE REPORTED:11/28/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
1116-29	171117-59	ND	ND	ND	ND	ND	ND	ND	ND	1
1116-32	171117-62	ND	ND	ND	ND	ND	ND	ND	ND	1
1116-35	171117-65	ND	ND	ND	ND	ND	ND	ND	ND	1
1116-38	171117-68	ND	ND	ND	ND	ND	2.49	ND	2.49	1
1116-39	171117-69	ND	ND	ND	ND	ND	2.59	ND	2.59	1
1116-42	171117-72	ND	ND	ND	ND	ND	ND	ND	ND	1
1116-45	171117-75	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
PQL		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 11/21/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171121-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.097	**97%**	0.102	**102%**	**5%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.119	**119%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171117-31	171117-34	171117-37	171117-40	171117-43	171117-46
Tetra-chloro-meta-xylene	50-150	112%	114%	105%	121%	110%	112%	111%
Decachlorobipneyl	50-150	74%	127%	103%	98%	82%	108%	96%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171117-49	171117-50	171117-53	171117-56	171117-59	171117-62	171117-65	171117-68
Tetra-chloro-meta-xylene	110%	110%	111%	111%	111%	113%	110%	111%
Decachlorobipneyl	85%	88%	100%	95%	86%	95%	74%	116%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171117-69	171117-72	171117-75			
Tetra-chloro-meta-xylene	112%	110%	111%			
Decachlorobipneyl	106%	104%	77%			

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: 

Final Reviewer: 

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

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

Misc./PO#: Bldg H

Analysis Required: EPA Method 8082 - PCBs

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA Method 8082 - PCBs									COMMENTS
116-29	171117-59	11-16-17	1820	Bulk	1		Ice	X									1"
30	-60		1836		1			X									archive 3"
31	-61		1837		1			X									archive 6"
32	-62		1838		1			X									1"
33	-63		1840		1			X									archive 3"
34	-64		1842		1			X									archive 6"
35	-65		1900		1			X									1"
36	-66		1901		1			X									archive 3"
37	-67		1902		1			X									archive 6"
38	-68		1907		1			X									1"
39	-69		1910		1			X									1"
40	-70		1911		1			X									archive 3"
41	-71		1912		1			X									archive 6"
42	-72		1915		1			X									1"
43	-73		1916		1			X									archive 3"

Company Name: Alta Environmental

Address: 3777 Long Beach

City/State/Zip: Long Beach Ca

Project Contact: Cesar Ruvalcaba

Tel:

Fax:

Sampler's Signature: [signature]

Project Name/ID: Malibu High - Bldg H

Relinquished by:	Received by:	Date & Time:
[signature]	[signature]	11/17/17 1110

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: 11-17-17

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

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

Misc./PO# Bldg H

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: Ept method 608.2 PCBs	COMMENTS
1116-44	171117-74	11-16-17	1918	Bulk	1		Ice	X	archive 6"
45	-75		~~2000~~		1			X	1"
46	-76		2000		1			X	archive 3"
47	-77		2005		1			X	6"
			~~2005~~						

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach
Project Contact: Cesar Rivalcoba
Tel:
Fax:
Sampler's Signature:
Project Name/ID: Malibu High Bldg H

Relinquished by:	Received by:	Date & Time: 11/17/17 1110
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 11-17-17

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: December 1, 2017

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

Project: **Malibu High - Bldg. H**
Lab I.D.: **171117-59 through -77**

Dear Mr. Ruvalcaba:

The **additional PCBs results** for the solid samples, received by our laboratory on November 17, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 Email:Cesar.Ruvalcaba@altaenviron.com
PROJECT: **Malibu High - Bldg. H**

DATE SAMPLED:11/16/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:11/17/17
DATE EXTRACTED:11/29-30/17
DATE ANALYZED:11/30/17
DATE REPORTED:12/01/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
1116-40	171117-70	ND	ND	ND	ND	ND	2.60	ND	2.60	1
1116-41	171117-71	ND	ND	ND	ND	ND	1.56	ND	1.56	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Gmail Jessica Lin <envirocheminc@gmail.com>

Re: Malibu High - Bldg. H, 3 and 6 inch sample analysis

1 message

Curtis B. Desilets <curt.envirocheminc@gmail.com> Wed, Nov 29, 2017 at 11:28 AM
To: Cesar Ruvalcaba <Cesar.Ruvalcaba@altaenviron.com>, Jessica Lin <envirocheminc@gmail.com>
Cc: David Schack <David.Schack@altaenviron.com>

Okay, got it.

Jessica, please have chemists proceed with analysis of the archived 3" and 6" samples for Malibu, Bldg H. Thanks.

On Wed, Nov 29, 2017 at 10:45 AM, Cesar Ruvalcaba <Cesar.Ruvalcaba@altaenviron.com> wrote:

Curtis,

Please proceed to analyze the 3-inch and 6-inch samples related to the one-inch sample reported with PCBs. Laboratory sample numbers 171117-70 and 171117-71 (Alta sample numbers 1116-40 and 1116-41). Normal TAT.

Please confirm receiving this email.

Cesar Ruvalcaba

PROJECT MANAGER

ALTA ENVIRONMENTAL

Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807

o. 562.495.5777 | c. 310-951-9485 | f. 562.495.5877

Cesar.Ruvalcaba@altaenviron.com | www.altaenviron.com

2017 Compliance Calendar **download here.**

OSHA Alert: New Worker Health & Safety Requirement for silica. **Read More Here.**

Alta Environmental is the premier environmental services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 11/30/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171130-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.085	**85%**	0.089	**89%**	**5%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.108	**108%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171117-70	171117-71	171129-29	171129-30	171129-31	171129-32
Tetra-chloro-meta-xylene	50-150	123%	127%	122%	120%	138%	71%	116%
Decachlorobipneyl	50-150	96%	99%	110%	87%	104%	87%	82%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171129-33	171129-34	171129-35	171129-36				
Tetra-chloro-meta-xylene	114%	120%	106%	143%				
Decachlorobipneyl	95%	79%	96%	93%				

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

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

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

Date: November 30, 2017

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

Project: **Malibu High - Bldg. H**
Lab I.D.: **171122-18 through -47**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on November 22, 2017, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: **Malibu High - Bldg. H**

DATE SAMPLED: 11/20/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 11/22/17
DATE EXTRACTED: 11/27-28/17
DATE ANALYZED: 11/28/17
DATE REPORTED: 11/30/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
1120-1	171122-18	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-4	171122-21	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-7	171122-24	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-10	171122-27	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-13	171122-30	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-16	171122-33	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-18	171122-35	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-19	171122-36	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-22	171122-39	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-25	171122-42	ND	ND	ND	ND	ND	ND	ND	ND	1
1120-28	171122-45	ND	ND	ND	ND	ND	3.25	ND	3.25	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 11/28-29/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171128-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.107	**107%**	0.094	**94%**	**13%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.090	**90%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171122-18	171122-21	171122-24	171122-27	171122-30	171122-33
Tetra-chloro-meta-xylene	50-150	109%	111%	111%	109%	113%	107%	116%
Decachlorobipneyl	50-150	101%	86%	124%	101%	116%	104%	82%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171122-35	171122-36	171122-39	171122-42	171122-45	171122-48	171122-51	171122-54
Tetra-chloro-meta-xylene	113%	110%	104%	111%	109%	110%	111%	114%
Decachlorobipneyl	96%	113%	109%	83%	77%	118%	108%	89%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171122-57	171122-60	171122-63	171122-64	171122-67	171122-68
Tetra-chloro-meta-xylene	114%	121%	110%	111%	112%	111%
Decachlorobipneyl	91%	94%	83%	116%	91%	98%

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By:

Final Reviewer:

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

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

Misc./PO# Bldg H

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
1120-1	171122-18	11-20-17	1600	Bulk	1 4oz		Ice	X	1"
17 2	-19		1605		1			X	archive 3"
18 3	-20		1608		1			X	1 6"
19 4	-21		1630		1			X	1"
20 5	-22		1632		1			X	archive 3"
21 6	-23		1640		1			X	1 6"
22 7	-24		1645		1			X	1"
23 8	-25		1647		1			X	archive 3"
24 9	-26		1650		1			X	1 6"
10	-27		1658		1			X	1"
11	-28		1655		1			X	archive 3"
12	-29		1700		1			X	1 6"
13	-30		1705		1			X	1"
14	-31		1710		1			X	archive 3"
15	-32		1715		1			X	1 6"

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach Ca

Project Contact: Cesar Ruvalcaba
Tel:
Fax:

Sampler's Signature:
Project Name/ID: Malibu High - Bldg H

Relinquished by:
Relinquished by:
Relinquished by:

Received by:
Received by:
Received by:

Date & Time: 11/27/17 10:11 AM
Date & Time:
Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 11-22-17

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 ~~1 Week~~ (Standard)
Other:

Misc./PO# Bldg H

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
112017	1711 22-33	11-20-17	1728		1X40Z				3"
17	- 34		1730						archive 6"
18	- 35		1735						1"
19	- 36		1800						1"
20	- 37		1830						archive 3"
21	- 38		1835						" 6"
22	- 39		1900						" 1"
23	- 40		1910						archive 3"
24	- 41		1920						" 6"
25	- 42		1940						1"
26	- 43		1945						archive 3"
27 ~~28~~	- 44		1~~9~~80						" 6"
28	- 45		1950						1"
29	- 46		1952						archive 3"
30	- 47		1954						" 6"

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach Ca

Project Contact: Cesar Ruvalcaba
Tel:
Fax:

Sampler's Signature:
Project Name/ID: malibu - Bldg H

Relinquished by:	Received by:	Date & Time: 11/22/17 13:11 PM
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: December 4, 2017

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

Project: **Malibu High - Bldg. H**
Lab I.D.: **171122-18 through -47**

Dear Mr. Ruvalcaba:

The **additional PCBs results** for the solid samples, received by our laboratory on November 22, 2017, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

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

LABORATORY REPORT

CUSTOMER: Alta Environmental
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: Malibu High - Bldg. H

DATE SAMPLED: 11/20/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 11/22/17
DATE EXTRACTED: 12/01-04/17
DATE ANALYZED: 12/04/17
DATE REPORTED: 12/04/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
1120-29	171122-46	ND	ND	ND	ND	ND	0.922	ND	0.922	1
1120-30	171122-47	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Gmail

Jessica Lin <curt.envirocheminc@gmail.com>

Malibu High - Bldg H

Cesar Ruvalcaba <Cesar.Ruvalcaba@altaenviron.com> Fri, Dec 1, 2017 at 11:19 AM
To: "Curtis B. Desilets" <curt.envirocheminc@gmail.com>, David Schack <David.Schack@altaenviron.com>

Please analyze the following 3" and 6" samples, laboratory numbers – 171122-46 (1120-29), 171122-47 (1120-30)

EXTRACT BY MONDAY 12/4/17

Cesar Ruvalcaba

PROJECT MANAGER

ALTA ENVIRONMENTAL

Expertise to Reduce Your Environmental and Safety Risks

3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807

o. 562.495.5777 | c. 310-951-9485 | f. 562.495.5877

Cesar.Ruvalcaba@altaenviron.com | www.altaenviron.com

2017 Compliance Calendar download here.

OSHA Alert: New Worker Health & Safety Requirement for silica. Read More Here.

Best Firms To Work For

Alta Environmental is the premier environmental services consultancy serving the needs of municipal, industrial, and construction clients throughout the Western United States. For more information about our air and water environmental compliance, subsurface remediation, building sciences and occupational safety capabilities, please click here for our website.

From: Curtis B. Desilets [mailto:curt.envirocheminc@gmail.com]
Sent: Friday, December 01, 2017 10:56 AM
To: Cesar Ruvalcaba <Cesar.Ruvalcaba@altaenviron.com>; David Schack <David.Schack@altaenviron.com>
Subject: Malibu High - Bldg H

[Quoted text hidden]

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 12/4/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171128-24 MS/MSD

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.083	**83%**	0.091	**91%**	**8%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.106	**106%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171122-46	171122-47				
Tetra-chloro-meta-xylene	50-150	121%	119%	134%				
Decachlorobipneyl	50-150	91%	122%	115%				

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

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

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By:

Final Reviewer:

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

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard) (circled)
Other:

Misc./PO#: Bldg H

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: EPA method 8082 PCBs	COMMENTS
1120-16 1	171122-18	11-20-17	1600	Bulk	1	4°C	Ice	X	1"
17 2	-19		1605		1			X	archive 3"
18 3	-20		1608		1			X	6"
19 4	-21		1630		1			X	1"
20 5	-22		1632		1			X	archive 3"
21 6	-23		1640		1			X	6"
22 7	-24		1645		1			X	1"
23 8	-25		1647		1			X	archive 3"
24 9	-26		1650		1			X	6"
10	-27		1652		1			X	1"
11	-28		1655		1			X	archive 3"
12	-29		1700		1			X	6"
13	-30		1705		1			X	1"
14	-31		1710		1			X	archive 3"
15	-32		1715		1			X	6"

Company Name: Alta Environmental
Project Contact: Cesar Pavlick
Sampler's Signature: [signature]
Address: 3777 Long Beach Blvd
Tel:
Project Name/ID: Malibu High - Bldg H
City/State/Zip: Long Beach Ca
Fax:

Relinquished by: [signature]	Received by: [signature]	Date & Time: 11/22/17 10:11 AM
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 11-22-17

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Turnaround Time
0 Same Day
0 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

Misc./PO# Bldg H

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
112016	171122-33	11-20-17	1728		1x40z				3"
17	- 34		1730						archive 6"
18	- 35		1735						1"
19	- 36		1800						1"
20	- 37		1830						archive 3"
21	- 38		1835						6"
22	- 39		1900						1"
23	- 40		1910						archive 3"
24	- 41		1920						6"
25	- 42		1940						1"
26	- 43		1945						archive 3"
27 ~~28~~	- 44		1~~48~~ 50						6"
28	- 45		1950						1"
29	- 46		1952						archive 3"
30	- 47		1954						6"

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach Ca

Project Contact: Cesar Ruvalcaba
Tel:
Fax:

Sampler's Signature:
Project Name/ID: malibu - Bldg H

Relinquished by:	Received by:	Date & Time: 11/22/17 10:11 AM
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: _____

WHITE WITH SAMPLE • YELLOW TO CLIENT

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

Date: December 18, 2017

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

Project: **Malibu High - Bldg. H**
Lab I.D.: **171215-34 through -37**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 15, 2017, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel: (562) 495-5777 Email: Cesar.Ruvalcaba@altaenviron.com
PROJECT: **Malibu High - Bldg. H**

DATE SAMPLED: 12/14/17
MATRIX: SOLID
REPORT TO: MR. CESAR RUVALCABA

DATE RECEIVED: 12/15/17
DATE EXTRACTED: 12/15/17
DATE ANALYZED: 12/15-16/17
DATE REPORTED: 12/18/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
1214-13	171215-34	ND	ND	ND	ND	ND	1.27	ND	1.27	1
1214-14	171215-35	ND	ND	ND	ND	ND	1.02	ND	1.02	1
1214-20	171215-36	ND	ND	ND	ND	ND	ND	ND	ND	40^
1214-21	171215-37	ND	ND	ND	ND	ND	2.99	ND	2.99	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

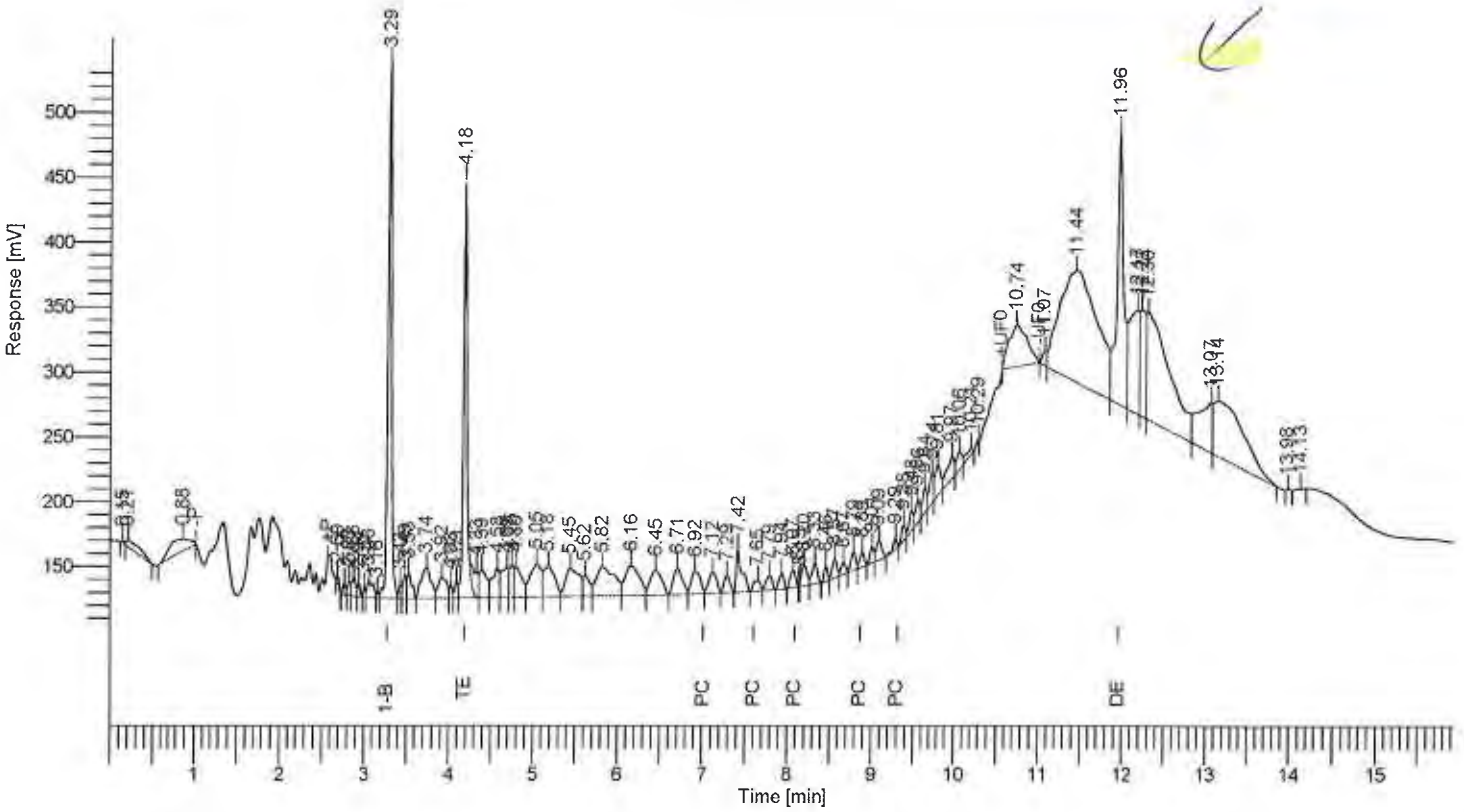
COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)
^ = Actual detection limit raised due to matrix interference

Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version	: 6.3.2.0646	Date	: 12/18/2017 12:00:40 PM
Sample Name	: 171215-36 1/200 RE	Data Acquisition Time	: 12/18/2017 10:11:07 AM
Instrument Name	: GC-J	Channel	: B
Rack/Vial	: 0/63	Operator	: tcprocess
Sample Amount	: 1.000000	Dilution Factor	: 1.000000
Cycle	: 4		

1214-20
MATRIX INTERFERENCE
@ YU x DF !

Result File : D:\GC DATA\GC-J\J02017\J1712\J171215\B067.rst
Sequence File : D:\GC DATA\GC-J\J02017\J1712\J171215\J171215.seq



PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
12	1-Bromo-2-Nitrobenzene	3.29	1192081.40	405430.66	----------
20	Tetra chloro-meta-xylene	4.18	921165.97	308787.54	108.747
	PCB (1016+1260)	6.92	300762.44	57681.70	0.086
67	Decachlorobiphenyl	11.96	1187579.60	208428.12	143.126
			3601589.41	980328.02	251.959

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 12/15-16/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 171215-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.096	**96%**	0.091	**91%**	**6%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.103	**103%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171215-22	171215-23	171215-24	171215-25	171215-26	171215-27
Tetra-chloro-meta-xylene	50-150	106%	101%	108%	108%	106%	112%	99%
Decachlorobipneyl	50-150	80%	80%	76%	76%	80%	83%	80%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171215-28	171215-29	171215-30	171215-31	171215-32	171215-33	171215-34	171215-35
Tetra-chloro-meta-xylene	109%	107%	109%	109%	107%	95%	103%	102%
Decachlorobipneyl	85%	83%	77%	93%	84%	94%	85%	90%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171215-36	171215-37	171215-38	171215-39	171215-40	171215-41
Tetra-chloro-meta-xylene	109%	109%	106%	109%	109%	109%
Decachlorobipneyl	143%	81%	79%	83%	79%	84%

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By: _____

Final Reviewer: _____

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

Turnaround Time
~~0 Same Day~~
X 24 Hours
0 48 Hours
0 72 Hours
0 1 Week (Standard)
Other:

RUSH

Misc./PO#
Malibu High - Bldg H

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required: 8270 - Method 8082 - PCBs	COMMENTS
1214-13	171215-34	12/4/17	1430	Bulk	1 4oz		Ice	X	9"
-14	-35		1441		1			X	12"
-20	-36		2100		1			X	Caulking
-21	-37		2110		1			X	6"

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd
City/State/Zip: Long Beach Ca

Project Contact: Cesar Avalcabe
Tel:
Fax:

Sampler's Signature:
Project Name/ID: Malibu High - Bldg H

Relinquished by:	Received by:	Date & Time: 12/15/17 1130
Relinquished by:	Received by:	Date & Time:
Relinquished by:	Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client X Store (30 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 12-18-17

WHITE WITH SAMPLE • YELLOW TO CLIENT

Page 1 of 1

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

Date: December 28, 2017

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

Project: **Malibu H.S.**
Lab I.D.: **171227-5 through -15**

Dear Mr. Ruvalcaba:

The **analytical results** for the solid samples, received by our laboratory on December 27, 2017, are attached. The samples were received intact, and accompanying chain of custody.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,

Curtis Desilets
Vice President/Program Manager

Andy Wang
Laboratory Manager

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

LABORATORY REPORT

CUSTOMER: **Alta Environmental**
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 Email:Cesar.Ruvalcaba@altaenviron.com
PROJECT: **Malibu H.S.**

DATE SAMPLED:12/26/17
MATRIX:SOLID
REPORT TO:MR. CESAR RUVALCABA

DATE RECEIVED:12/27/17
DATE EXTRACTED:12/27&28/17
DATE ANALYZED:12/28/17
DATE REPORTED:12/28/17

PCBs ANALYSIS
METHOD: EPA 3540C/8082
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

SAMPLE I.D.	LAB I.D.	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	TOTAL PCBs*	DF
1226-01	171227-5	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-02	171227-6	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-03	171227-7	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-04	171227-8	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-05	171227-9	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-06	171227-10	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-07	171227-11	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-08	171227-12	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-09	171227-13	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-10	171227-14	ND	ND	ND	ND	ND	ND	ND	ND	1
1226-11	171227-15	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	

COMMENTS
DF = Dilution Factor
PQL = Practical Quantitation Limit
Actual Detection Limit = DF X PQL
ND = Non-Detected Or Below the Actual Detection Limit
* = Sum of the PCB 1016, 1221, 1232, 1242, 1248, 1254 and 1260
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

Data Reviewed and Approved by:
CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

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

EPA 8082 QA/QC Report

Matrix: **Soil/Solid/Sludge** Date Analyzed: 12/28/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.:

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100		**0%**		**0%**	**#DIV/0!**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.106	**106%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	171227-5	171227-6	171227-7	171227-8	171227-9	171227-10
Tetra-chloro-meta-xylene	50-150	117%	116%	119%	125%	121%	102%	111%
Decachlorobipneyl	50-150	64%	80%	65%	86%	80%	51%	54%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	171227-11	171227-12	171227-13	171227-14	171227-15			
Tetra-chloro-meta-xylene	109%	112%	127%	122%	130%			
Decachlorobipneyl	70%	74%	52%	104%	71%			

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

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

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

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

Analyzed and Reviewed By:

Final Reviewer:

RUSH

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

RUSH

Turnaround Time
- 0 Same Day
- X 24 Hours
- 0 48 Hours
- 0 72 Hours
- 0 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA 8082	Misc./PO#	COMMENTS
				Analysis Required						
1226-01	1712-17-5	12/26/17		Bulk			ICE	X		Bldg H
1226-02	-6							X		
1226-03	-7							X		
1226-04	-8							X		
1226-05	-9							X		
1226-06	-10							X		
1226-07	-11							X		Bldg D
1226-08	-12							X		
1226-09	-13							X		Bldg J
1226-10	-14							X		
1226-11	-15				1			X		
					40Z					

Company Name: ALTA Environmental
Address: 3777 Long Beach Blvd, Annex Bldg
City/State/Zip: Long Beach CA 90807

Project Contact: Cesar.Rivalcaba@altaenviron.com
Tel:
Fax:

Sampler's Signature:
Project Name/ID: Malibu HS

Relinquished by:	12/27/17 1250	Received by:	Date & Time: 12/27/17 1300
Relinquished by:		Received by:	Date & Time:
Relinquished by:		Received by:	Date & Time:

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client O Store (30 Days
O Other:

CHAIN OF CUSTODY RECORD

Date: 12/27/17

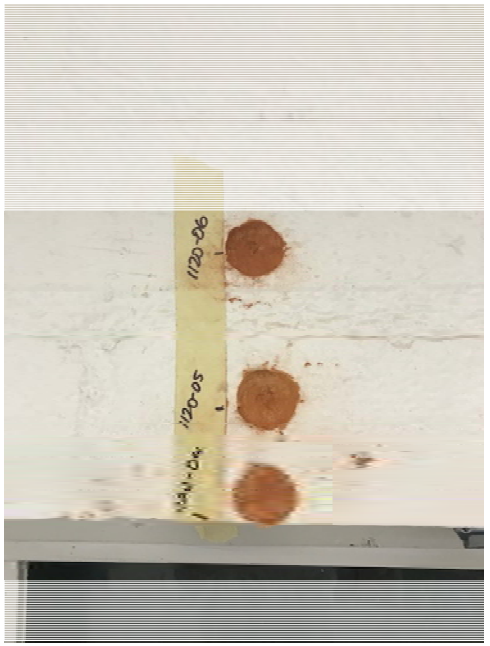
WHITE WITH SAMPLE • YELLOW TO CLIENT

Appendix D
Photographs

Malibu High School – Building H (delineation)

1120-01 thru 1120-03

1120-04 thru 1120-06



Malibu High School – Building H (delineation)

1120-07 thru 1120-09

1120-10 thru 1120-12

Malibu High School – Building H (delineation)

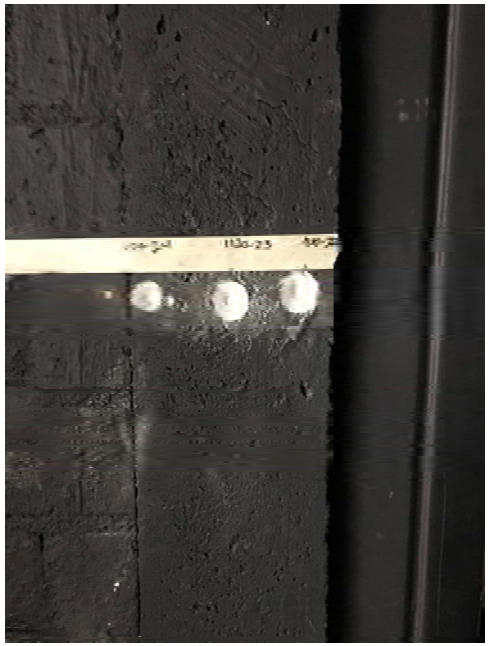
1120-13 thru 1120-15

1120-16 thru 1120-17

Malibu High School – Building H (delineation)

1120-19 thru 1120-21

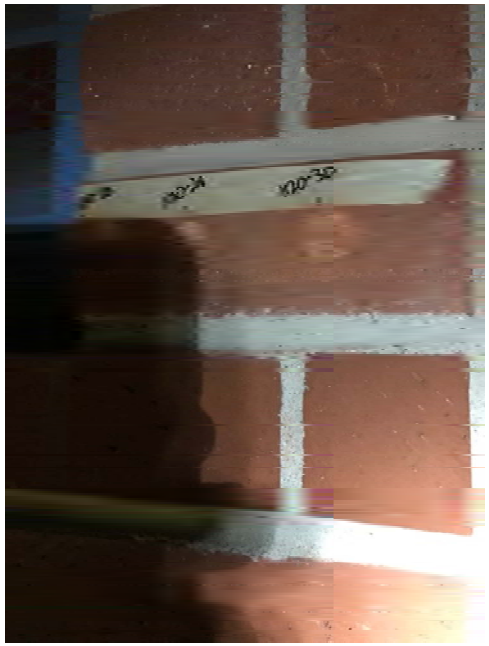
1120-22 thru 1120-24



Malibu High School – Building H (delineation)

1120-25 thru 1120-27

1120-28 thru 1120-30



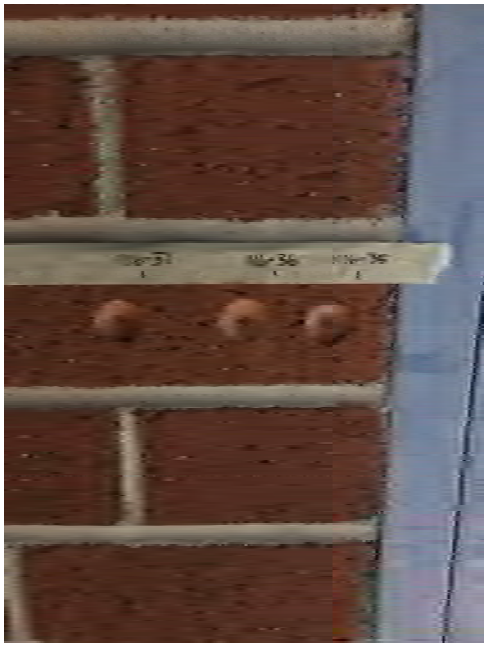
Malibu High School – Building H (delineation)

1116-29 thru 1116-31

1116-32 thru 1116-34

Malibu High School – Building H (delineation)

1116-35 thru 1116-37



1116-38 thru 1116-41

Malibu High School – Building H (delineation)

1214-13 thru 1214-14

- No photo taken

1226-01 thru 1226-03

- No photo taken

Malibu High School – Building H (delineation)

1116-42 thru 1116-44

1116-45 thru 1116-47

Malibu High School – Building H (delineation)

1214-21

- No photo taken

1226-04 thru 1226-06

- No photo taken

Malibu High School – Building H (source)

1201-01

1201-03

Malibu High School – Building H (source)

1201-04

1201-05

Malibu High School – Building H (source)

1201-06

1201-07

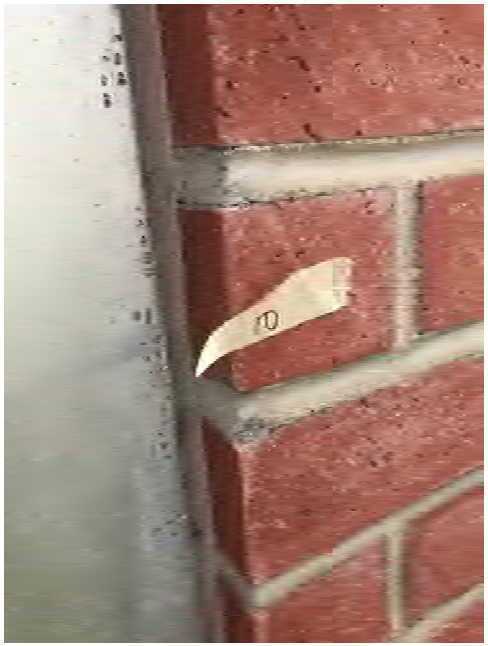
Malibu High School – Building H (source)

1201-08

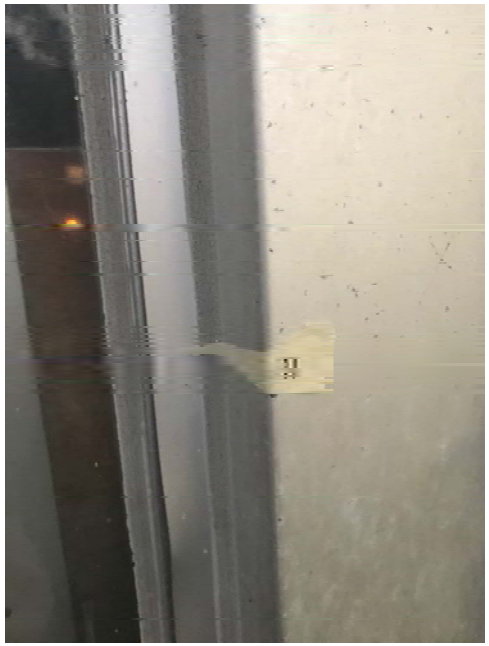
1201-09

Malibu High School – Building H (source)

1201-10



1201-11



Malibu High School – Building H (source)

1201-12 thru 1214-28

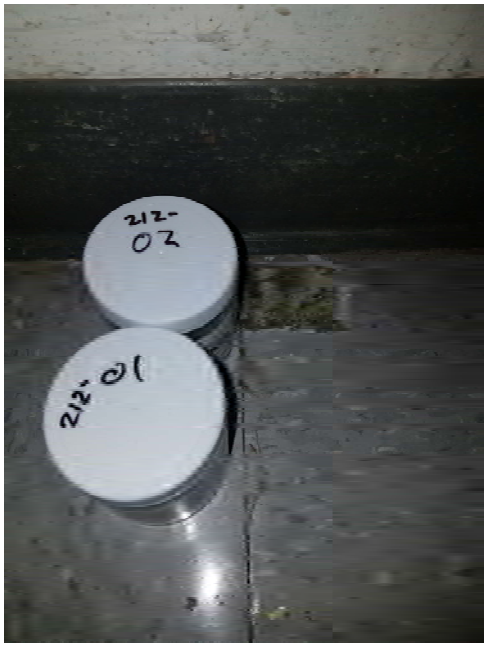
- No photos taken

1214-20

- No photo taken

Malibu High School – Building H (source)

212-01, 212-02



212-03, 212-04

Malibu High School – Building H (source)

212-05, 212-06

22718-SF01

Malibu High School – Building H (source)

22718-SF02

22718-SF03

Malibu High School – Building H (source)

22718-SF04

22718-SF05

Malibu High School – Building H (source)

22718-SF06

22718-SF07

Malibu High School – Building H (source)

22718-SF08

22718-SF09

Malibu High School – Building H (source)

22718-SF10

22718-SF11

Malibu High School – Building H (source)

22718-SF12

22718-SF13

Malibu High School – Building H (source)

22718-SF14

22718-SF15

Malibu High School – Building H (source)

22718-SF16

22718-SF17

Malibu High School – Building H (source)

22718-SF18

22718-SF19

Malibu High School – Building H (source)

22718-SF20

22718-SF21, 22718-SF21D

Malibu High School – Building H (source)

22718-SF22

22718-SF23

Malibu High School – Building H (source)

22718-SF24

22718-SF25

Malibu High School – Building H (source)

22718-SF26

22718-SF27