SURVEY AND SAMPLING OF DOOR CAULKING FOR PCB

Doors D504A, D708A, and D708B
Buildings E, and H
Roosevelt Elementary School
801 Montana Avenue
Santa Monica, California 90405

Prepared for:

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

Project No.: SMSD-17-6653
Date: February 21, 2017

Alta Environmental
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
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EXECUTIVE SUMMARY

On January 24, 2017, Alta Environmental (Alta) conducted a survey and sampling of door caulking suspected to contain PCBs. The survey and sampling included three doors D504A, D708A, and D708B in Building E, and H at Roosevelt Elementary School located at 801 Montana Avenue, Santa Monica, California 90405.

The objective of the survey was to confirm, by visual observation, if door caulking suspected to contain PCBs was present around the three door casings and to subsequently collect bulk samples for PCB analysis of the caulking if observed to be present.

To accomplish our objective, our team exposed the affected door casings, conducted a visual inspection and collected samples of suspect PCB door caulking.

Summary of survey and sampling:

1. Door D504A; visible caulking was observed on the exterior side of the door. One bulk sample was collected and analyzed. The samples were reported as not-detected at a level above the laboratory reporting limit (RL).
2. Door D708A; no visible caulking was observed, both inside and outside of the door casing. No sampling was required.
3. Door D708B; no visible caulking was observed, both inside and outside of the door casing. No sampling was required.

Alta exposed the surface around the door casings D708A, and D708B and not visible caulking was observed. Furthermore, the caulking sample collected around door D504A was reported as not detected by the laboratory at level above the RL. Based on these results and visual observations, no PCB impacts are anticipated associated with the removal of doors D504A, D708A, and D708B.

The Reporting Limit (RL) used by the laboratory for the samples collected during this investigation was below the benchmark of 50 parts per million which is currently being used as approved by the USEPA to define PCB Bulk Product Waste.

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REPORTED: February 21, 2017 **PROJECT NO.:** SMSD-17-6653

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

ATTENTION: Mr. Chris Emmett

REF: Survey & Sampling of Door Caulking for PCBs
Doors D504A, D708A, and D708B
Buildings E, and H
Roosevelt Elementary School
801 Montana Avenue
Santa Monica, California 90405

1 INTRODUCTION

On January 24, 2017, Alta Environmental conducted a survey and sampling for door caulking suspected to contain PCBs. The survey and sampling included doors D504A, D708A, and D708B in Building E, and H at Roosevelt Elementary School located at 801 Montana Avenue, Santa Monica, California 90405.

The survey and sampling was completed by Fabian Ruvalcaba, and Therese Rizarri, both Cal/OSHA Hazardous Waste Operations and Emergency Response (HAZWOPER) trained technicians.

2 SCOPE OF WORK

The Santa Monica-Malibu Unified School District (District) retained Alta Environmental (Alta) for the sampling (approved proposal and work plan dated, January 20, 2017).

Alta survey and sampling was completed as follows:

1. A screw driver, chisel, or similar tool was used to remove the surrounding exterior stucco and interior plaster at one location per door.
2. A polyethylene drop-sheet was placed below the impacted area to capture any dust and debris which may be dislodged during the sample collection.
3. Samples will be labelled, packaged, and documented on a Chain of Custody for shipping to the laboratory.
4. Samples were shipped to the laboratory in a chilled ice chest.
5. 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.
6. Each sample location was documented using digital photographs.
7. Equipment and tools were decontaminated using a two-step decontamination process. First, all used drill bits, and 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 were set to dry individually. Each piece of equipment was inspected by Alta for evidence of residual dust and debris.

The sampling was conducted in accordance with the approved proposal, and site-specific work plan prepared for this project (Alta Work Plan, dated January 20, 2017, which was reviewed and approved by the District and “USEPA Region I Standard Operation Procedures for Sampling Porous Surfaces for Polychlorinated Biphenyl,” approved for use by the District, May, 23, 2011.

Table 1
Summary of Doors and Associated Substrates

Component Type ID	Component Description	Visible Caulking Yes/No	Building	Location	Exterior Substrate	Interior Substrate
D504A	Single exterior door	Yes	E	Exterior; door 504, south end, approx. 4' up	Stucco	Plaster
D708A	Single exterior door	No	H	Exterior; north side entrance to stage area	Stucco	Plaster
D708B	Single exterior door	No	H	Exterior; north side entrance to stage area	Stucco	Plaster

3 METHODOLOGY

A total of one sample was collected and analyzed from door D504A.

The bulk sample was placed in an appropriate glass jar with a Teflon cap. The sample was labeled and packaged in a cooler and kept cool with ice during shipment.

The sample was analyzed by Enviro-Chem, located at 1214 East Lexington Avenue, Pomona, California, a Cal ELAP accredited laboratory (#1555).

4 RESULTS

Table 2.0
Summary of Sample Results

Component (from Table 1 above)	Building	Reported Construction Date	Number of Components Tested	Total Potentially Impacted Components to be renovated	Total Samples Analyzed	Results
D504A	E	1934	1	1	1	Not Detected

The Reporting Limit (RL) used by the laboratory for this project was below the benchmark (50 ppm) currently being used as approved by the USEPA. The laboratory reported “Not Detected” at levels above the RL.

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

5 QUALITY CONTROL

Based on a review of the QC data associated with the sample analysis, the reported recovery and precision are within the acceptable limits of the laboratory. The laboratory analyzed a Matrix Spike(MS)/Matrix Spike

Duplicate (MSD) as part of the batch QA/QC for this sample. The laboratory recovery ranges were within acceptable levels

6 CONCLUSIONS

The objective of the survey was to confirm by visual observation if door caulking suspected to contain PCBs is present around the three door casings and collect bulk samples for PCB analysis.

Summary of survey and sampling:

1. Door D504A; visible caulking was observed on the exterior side of the door. One bulk sample was collected and analyzed. The sample was reported as not-detected at levels above the laboratory RL.
2. Door D708A; no visible caulking was observed, both inside and outside of the door casing. No sampling was required, and
3. Door D708B; no visible caulking was observed, both inside and outside of the door casing. No sampling was required.
4. Alta exposed the surface around the door casings D708A, and D708B and not visible caulking was observed. Furthermore, caulking sample collected around door D504A was reported as not detected by the laboratory at level above the RL. Based on these results and visual observations, no PCB impacts are anticipated associated with the removal of doors D504A, D708A, and D708B.

If caulking is uncovered during demolition, stop work and contact the District for further instructions.

7 ASSUMPTIONS AND LIMITATIONS

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 performance of services.

In performing our professional services, we have applied present 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.

8 SIGNATORY

Respectfully submitted by:

Alta Environmental

Cesar Ruvalcaba
Project Manager

Reviewed by:

Alta Environmental

David Schack
Vice President, Building Sciences

Appendix A

Sample Inventories

Summary of PCBs Step-Out Sampling

CLIENT: SMMUSD
PROJECT NO: SMSD-17-6653
PROJECT: Roosevelt ES, door caulkign sampling for PCB s
DATE:

Building Name	Component	Sample Number	Substrate	Sample Location	Photograph Number
Building E	Door (D504A)	01-0124	White Caulking	Exterior door 504, south end, approx. 4' up	1
Building H (auditorim)	Door (708A)	No samples, no visible caulking was observed both inside and outside during Atla sampling			2, 3
Building H (auditorim)	Door (708B)	No samples, no visible caulking was observed both inside and outside during Atla sampling			4, 5

Appendix B

Laboratory Reports

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

Date: February 2, 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: **Roosevelt ES, Source Testing**
Lab I.D.: **170125-2, -3**

Dear Mr. Ruvalcaba:

The **analytical results** for the liquid and solid samples, received by our laboratory on January 25, 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: **Roosevelt ES, Source Testing**

DATE SAMPLED:01/24/17 DATE RECEIVED:01/25/17
MATRIX:LIQUID/SOLID DATE EXTRACTED:01/25-26/17
REPORT TO:MR. CESAR RUVALCABA DATE ANALYZED:01/27/17
DATE REPORTED:02/02/17

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
01-0124	170125-2	ND	ND	ND	ND	ND	ND	ND	ND	100^
02-0124	170125-3	ND	ND	ND	ND	ND	ND	ND	ND	1
Method Blank		ND	ND	ND	ND	ND	ND	ND	ND	1
	PQL	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	

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
^ = Actual detection limit raised due to matrix interference
*** = The concentration exceeds the TTLC Limit of 50, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

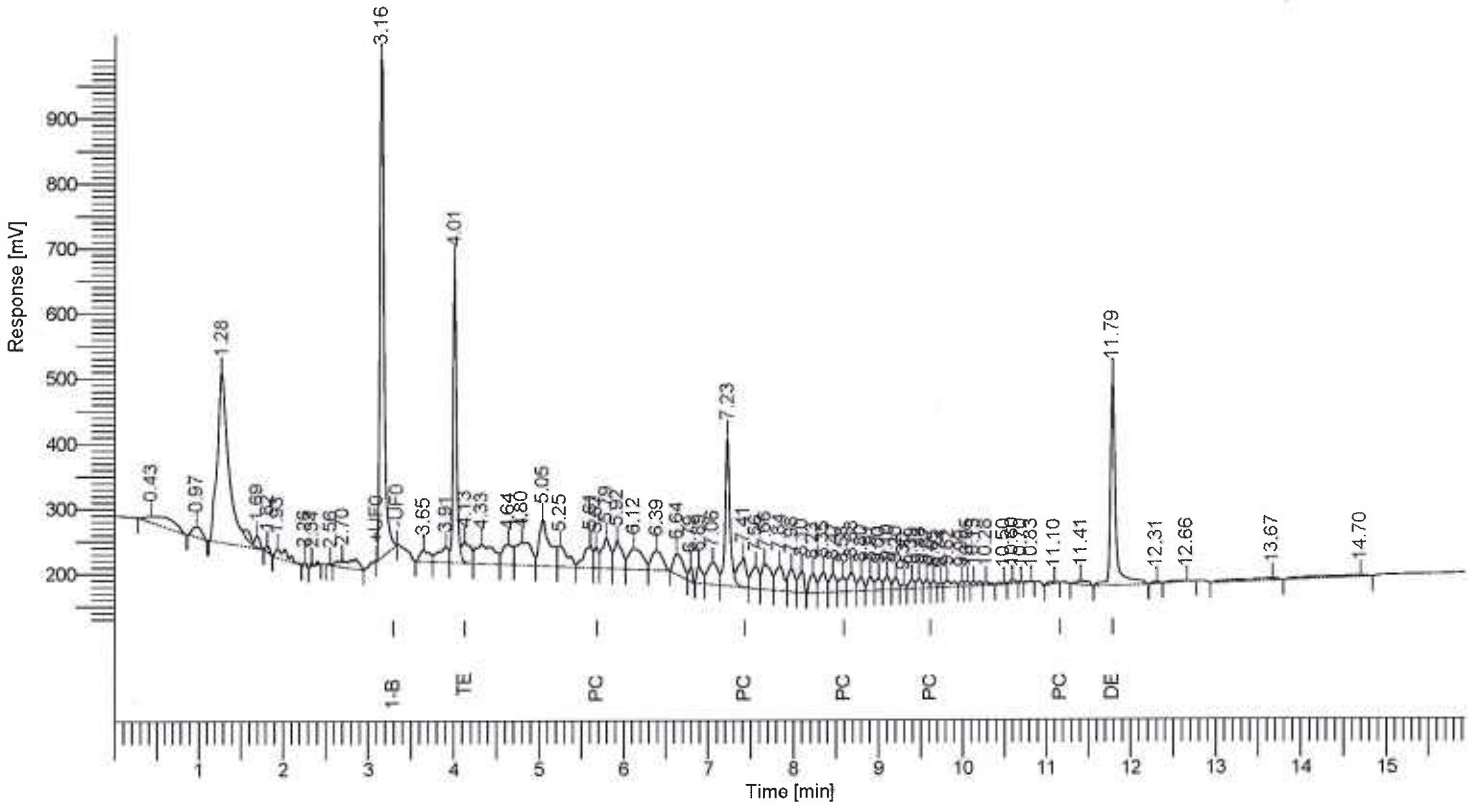
Data Reviewed and Approved by: _____
CAL-DHS ELAP CERTIFICATE No.: 1555

Software Version : 6.3.2.0646
Sample Name : 170125-2 2/20 Alta
Instrument Name : GC-E
Rack/Vial : 0/22
Sample Amount : 1.000000
Cycle : 5

Date : 1/27/2017 4:43:06 PM
Data Acquisition Time : 1/27/2017 4:04:26 PM
Channel : B
Operator : GC
Dilution Factor : 1.000000

Result File : D:\GC DATA\GC-E\E02017\E1701\E170124\B147.rst
Sequence File : D:\GC DATA\GC-E\E02017\E1701\E170124\E170124.seq

(MATRIX INTERFERENCE @ Df=100)



PCB Results

Peak #	Component Name	Time [min]	Area [uV*sec]	Height [µV]	Adjusted Amount
11	1-Bromo-2-Nitrobenzene	3.16	2578362.08	767318.16	----------
14	Tetra chloro-meta-xylene	4.01	1300666.17	447455.87	120.639
	PCB (1016+1260)	7.23	1339262.55	298800.65	0.162
65	Decachlorobiphenyl	11.79	1330653.87	320416.06	68.472
			6548944.67	1833990.73	189.273

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/Liquid** Date Analyzed: 1/26-27/2017

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: 170126-LCS1/2

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.092	**92%**	0.090	**90%**	**2%**	**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	170120-33	170120-36	170120-39	170120-42	170120-45	170120-48
Tetra-chloro-meta-xylene	50-150	118%	115%	125%	113%	112%	130%	108%
Decachlorobipneyl	50-150	76%	121%	82%	93%	104%	120%	115%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	170120-50	170120-53	170120-56	170120-58	170120-59	170120-60	170125-2	170125-3
Tetra-chloro-meta-xylene	115%	137%	114%	113%	112%	113%	121%	121%
Decachlorobipneyl	112%	127%	110%	105%	104%	89%	68%	77%

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:

Gmail

Jessica Huang <jh04envirocheminc@gmail.com>

Fwd: Request to revise report. Lab #170125-2-3

Jessica Lin <envirocheminc@gmail.com> Fri, Feb 3, 2017 at 11:00 AM
To: Jessica Huang <jh04envirocheminc@gmail.com>

---------- Forwarded message ----------
From: **Curtis B. Desilets** <curt.envirocheminc@gmail.com>
Date: Fri, Feb 3, 2017 at 10:59 AM
Subject: Fwd: Request to revise report. Lab #170125-2-3
To: Jessica Lin <envirocheminc@gmail.com>

Please modify yesterday's report...

---------- Forwarded message ----------
From: **Cesar Ruvalcaba** <Cesar.Ruvalcaba@altaenviron.com>
Date: Fri, Feb 3, 2017 at 9:38 AM
Subject: Request to revise report. Lab #170125-2-3
To: "Curtis B. Desilets" <curt.envirocheminc@gmail.com>

Curtis,

The site name is listed incorrectly. The correct site is Roosevelt ES, and the correct job number is SMSD-17-6653. I have edited the COC. Please revise the report to reflect the correct information.

Thanks very much!

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.Ruvalcba@altaenviron.com | www.altaenviron.com

2017 Compliance Calendar **download here.**

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

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
O Same Day
O 24 Hours
O 48 Hours
O 72 Hours
X 1 Week (Standard)
Other

EPA Method 8082 PCB

Misc. PCB
CR 2/3/17
~~SMSD-17-6653~~
SMSD-17-6653

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required	COMMENTS
01-0124	170125-2	1-24-17	1614	Bulk	1		Ice	X	
02-0124	-3	1-24-17	"	Water	1		"	X	
				209					

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

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: ~~Webster ES, Addendum Study~~ CR 2/3/17
Roosevelt ES. Source Testing

Relinquished by:	1-24-17 2200	Received by:	1-24-17 2300
Relinquished by:	01/25/17 0800	Received by:	1-25-17 0845
Relinquished by		Received by:	

Instructions for Sample Storage After Analysis:
O Dispose of O Return to Client X Store 3 Days)
O Other:

CHAIN OF CUSTODY RECORD

Date: 1-24-17

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
X 1 Week (Standard)
Other:

Misc./PO# SMSD-16-6424.1

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	EPA Method 8082 PCB	COMMENTS
01-0124	170125-2	1-24-17	1614	Bulk	1		Ice	X	
02-0124	-3	1-24-17	1	Water	1		X	X	
					2				

Analysis Required

Company Name: Alta Environmental
Address: 3777 Long Beach Blvd., Annex Bldg.
City/State/Zip: Long Beach, California 90807

Project Contact: Cesar Ruvalcaba
Tel: 562-495-5777
Fax:

Sampler's Signature:
Project Name/ID: ~~Webster ES, Additional Step-out~~ Roosevelt ES, Source Testing

Relinquished by:	1-24-17 2200	Received by:	1-24-17 2200
Relinquished by:	01/25/17 0800	Received by:	01/25/17 0945
Relinquished by:		Received by:	1-25-17 1300

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

CHAIN OF CUSTODY RECORD

Date: 1-24-17

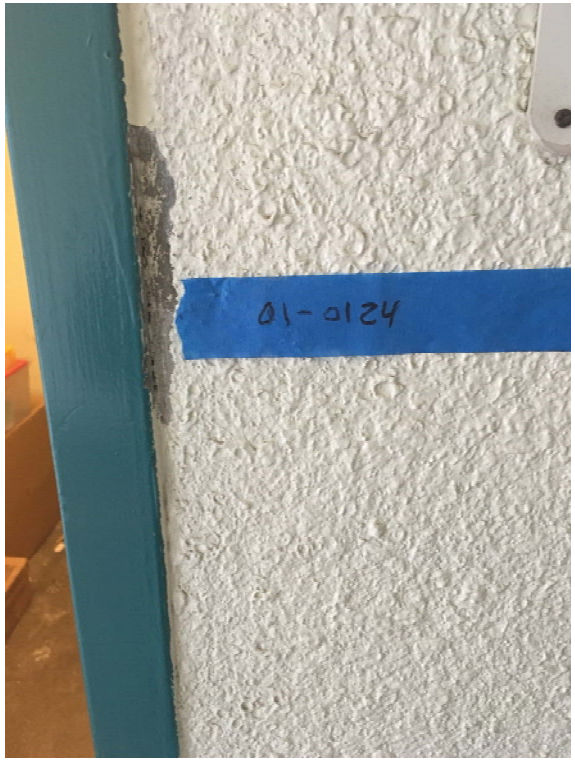
Appendix C

Sample Location Maps

Appendix D

Photographs

Roosevelt ES, Door Replacement Project (PCB Source Sampling)



Exterior door caulking sample #01-0124

Photo 1

Roosevelt ES, Door Replacement Project (PCB Source Sampling)

Door D708A-interior (no visible caulking)-Photo 2

Door D708A-exterior (no visible caulking) Photo 3

Roosevelt ES, Door Replacement Project (PCB Source Sampling)

Interior D708B-interior (no visible caulking) -Photo 4

Exterior D708B-exterior (no visible caulking) -Photo 5