INTER-OFFICE CORRESPONDENCE
Los **A**ngeles **U**nified **S**chool **D**istrict
Office of Environmental Health and Safety

TO: Isela López
Facilities Development Manager
FSD. Acquisition/Relocation

DATE: March 11, 2021

FROM: Eric Longenecker, Contract Professional
Site Assessment Project Manager
Office of Environmental Health and Safety

EBL

SUBJECT: **VAUGHN NEXT CENTURY LEARNING CENTER**
NEW 2-STORY ADDITION (COLIN: 10370661)
POLYCHLORINATED BIPHENYL (PCB) DETERMINATION

This correspondence has been prepared to document the polychlorinated biphenyl (PCB) determination regarding the New 2-Story Addition project at Vaughn Next Century Learning Center, 13330 Vaughn Street, San Fernando, CA 91340. This determination applies to the planned demolition of the Main Building (Building ID 23252).

On December 10, 2020, Alta Environmental LP, DBA NV5 (the "Consultant") inspected the building for potential PCBs in building materials (e.g., caulking, mastic, and paint), and collected representative bulk samples. The bulk sampling was completed following the Environmental Protection Agency's Toxic Substance Control Act (TSCA) regulations (40 CFR Part 761).

Most (68.9%, 31 of 45) of the sample results were below the practical quantitative limit for the test method of 0.05 milligrams per kilogram (mg/kg, equivalent to parts per million). The maximum detection was 31.7 mg/kg for paint sample 1210-26 collected from an interior wall. Therefore, all samples were below the TSCA limit of 50 parts per million. Based on the results of the PCB investigation, the building materials tested are deemed non-hazardous and categorized as *Excluded PCB Product* under TSCA and may be disposed of as general construction debris. Please note that this testing did not address issues concerning light ballasts, asbestos containing building materials, and lead-based paint which may require special handling and disposal.

A copy of the Consultant's report that presents the entire PCB Phase I Assessment is attached for your use.

As a precaution, dust mitigation measures should be implemented during any project-related demolition activities.

Should you have any questions or concerns regarding this memorandum, please contact OEHS Site Assessment Project Manager Eric Longenecker at (805) 630-0633 or at eric.longenecker@lausd.net.

Attached: *Limited PCB Survey and Bulk Sampling Report, Vaughn Next Century Learning Center*, NV5 | Alta Environmental, February 1, 2021

cc: Project File

LIMITED PCB SURVEY AND BULK SAMPLING REPORT

Vaughn Next Century Learning Center
Main Building Demolition
13330 Vaughn Street
San Fernando, California 91340

Prepared for:

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Project No.: LAUS-20-9734
Report Date: February 1, 2021

NV5
3777 Long Beach Boulevard Annex Building
Long Beach CA 90807 United States of America
T (562) 495 5777 F (562) 495 5877
Toll-free (US only) 800 777-0605 altaenviron.com

EXECUTIVE SUMMARY

On behalf of the Los Angeles Unified School District (District), Alta Environmental LP, DBA NV5 (NV5) has prepared this report summarizing limited polychlorinated biphenyl (PCB) compound sampling activities completed for the main building demolition at the Vaughn Next Century Learning Center, located at 13330 Vaughn Street in San Fernando, California. This limited assessment was conducted to investigate the potential presence of PCB-impacted building materials within the main building scheduled for demolition and to characterize any identified suspect materials for off-site waste disposal.

A total of 45 bulk PCB samples were collected during this limited investigation. Upon receipt, all samples were prepared by the laboratory using EPA Method 3540 for Soxhlet extraction and were analyzed for PCBs using EPA Method 8082A. All samples were reported by the laboratory as non-detected or below the 50-ppm threshold.

Below is a summary of the PCB sample results.

Table 1 - PCB Results Summary

PCB Concentration Range (ppm)	Number of Samples	Range of Detections (ppm)	Material Type
≥50	0	NA	NA
≥ 1 and < 50	13	1.89 - 31.7	Paint
< 1	1	0.602	Mastic
Not Detected	31	ND	Caulking, Felt, Mastic, Paint, Sealant

Notes:
NA - Not Applicable
PCB - Polychlorinated Biphenyl
ppm - Parts Per Million
≥ - Greater Than or Equal To
< - Less Than

Based on the findings of our investigation, the sampled building materials would not be regulated under the Toxic Substances Control Act of 1976 (TSCA).

It should be noted that other potentially hazardous substances such as lead and asbestos, if present, may affect the ultimate waste disposal classification of the building materials sampled during this investigation.

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1 INTRODUCTION / BACKGROUND

Alta Environmental LP, DBA NV5 (NV5) was retained by the Los Angeles Unified School District (District) to investigate the potential presence of polychlorinated biphenyl (PCB) impacted building materials within the main building (scheduled for demolition) located at the Vaughn Next Century Learning Center campus (NV5 proposal dated, June 24, 2020). Figure 1 is a Site Vicinity Map (Appendix C). This limited report summarizes results for samples collected only within the main building, which is scheduled for demolition.

2 PURPOSE OF INSPECTION AND SAMPLING

The purpose of this investigation was to evaluate select building materials for the presence of PCB impacts. No other potential hazardous building material impacts were assessed during this investigation.

The objective of our assessment was to site and collect a sufficient number of samples to:

- Serve as a representative indication of the variety of potentially PCB-impacted materials;
- Draw conclusions regarding the potential presence of PCB-impact materials;
- Determine if a site-specific remediation work plan is required to address materials with PCB concentrations ≥50 parts per million (ppm); and,
- Categorize each type of building material for off-site disposal, with respect to PCB content only. In general, PCB-impacted materials can be sorted and classified into the following categories:
    - *PCB Bulk Product Waste* (PCB concentration ≥ 50 ppm). According to the USEPA 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 both PCB Bulk Product Waste and PCB Remediation Waste to be disposed of together as a single waste stream (PCB Bulk Product Waste).
    - *Excluded PCB Product* (PCB concentration <50 ppm).

3 SCOPE OF SERVICES

NV5, at the direction of the District, completed a visual survey of accessible building materials associated with a pending renovation project within the restrooms scheduled for remodeling. Following the survey, NV5 collected representative bulk samples from the identified suspect PCB-containing building materials. Figure 2 is a Sample location Map (Appendix C). The sampling was completed in accordance with the USEPA Region I Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (USEPA 2011). The PCB survey and the sampling event was conducted on December 10, 2020.

4 METHODOLOGY

A total of 45 bulk PCB samples (38 primary and 7 duplicates) were collected during this limited investigation using the following general methodology:

- A properly decontaminated screwdriver, razor blade, chisel, or similar tool was used to collect each sample.
- Samples were placed into one-time use plastic bags, labelled, packaged, and documented on a chain of custody for shipping to the laboratory.

- Samples were shipped to the laboratory in a chilled ice chest.
- Each sample location was documented using digital photographs.
- Prior to use, reusable sampling equipment was decontaminated using a two-step decontamination process consisting of a spray with a phosphate-free cleaning solution, followed by a wipe with a clean paper towel lightly sprayed with de-ionized water. After the two-step decontamination procedures, the equipment was placed on top of clean paper towels and set to dry individually. Each piece of equipment was inspected by NV5 for evidence of residual dust and debris.

Following collection, each sample was placed in a plastic bag, sealed and labeled with a unique sample ID. All samples were stored in a chilled cooler pending shipment to the laboratory for analysis. Once received, all samples were prepared by the laboratory using EPA Method 3540C for Soxhlet extraction and were analyzed on a standard 5-day turnaround time for PCBs using EPA Method 8082A.

5 RESULTS

As presented in the sample inventory and the analytical laboratory reports, the PCB concentrations of **all building materials** samples analyzed during this investigation were reported as **non-detected** above laboratory detection limits or below the 50-ppm threshold stated in Section 2. An inventory of the samples collected during this investigation is provided in Appendix A and the associated laboratory reports are presented in Appendix B.

Below is a summary of the PCB sample results.

Table 1 - PCB Results Summary

PCB Concentration Range (ppm)	Number of Samples	Range of Detections (ppm)	Material Type
≥50	0	NA	NA
≥ 1 and < 50	13	1.89 - 31.7	Paint
< 1	1	0.602	Mastic
Not Detected	31	ND	Caulking, Felt, Mastic, Paint, Sealant

Notes:
NA - Not Applicable
PCB - Polychlorinated Biphenyl
ppm - Parts Per Million
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< - Less Than

6 QUALITY CONTROL

Sample extraction and analysis was completed by Enviro-Chem, located at 1214 East Lexington Avenue, Pomona, California. Enviro-Chem is a laboratory accredited by the California State Environmental Laboratory Accreditation Program. Based on a review of the laboratory QC data associated with the sample analyses, the recovery and precision are within the acceptable limits of the laboratory.

7 DATA VALIDATION

NV5 conducted data validation of all laboratory analytical data generated during our investigation. The analytical data were evaluated based on the USEPA *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (January 2013) and were subjected to Level 1 data validation.

The data validation concluded that all samples were handled per standard protocols and all sample results were within acceptable ranges.

8 CONCLUSIONS

Based on the findings of our investigation, the sampled building materials were non-detected or below the 50-ppm threshold for PCBs and therefore would not be regulated as a PCB Bulk Product Waste under TSCA.

9 RECOMMENDATIONS

Although PCBs were not detected or detected below the 50-ppm threshold in the areas sampled during this survey, removal and waste disposal of any potential future PCB Bulk Product Waste and PCB Remediation Waste, if present, should be conducted using proper engineering controls including but not limited to containment, worker training, worker protection etc. PCB waste should be characterized, packaged, labelled, and disposed as required by TSCA 40 CFR 761 and California hazardous waste regulation set forth in Title 22, Division 4.5 of the California Code of Regulations.

It should be noted that other potentially hazardous impacts, if present, may affect the ultimate waste disposal classification of the building materials sampled during this investigation.

10 ASSUMPTIONS AND LIMITATIONS

NV5's scope of work was limited to specific fixtures and materials within the main building scheduled for demolition at the Vaughn Next Century Learning Center campus at the time of our inspection. The results of our investigation 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 or remodeling of the restrooms.

This report was prepared exclusively for use by the District and may not be relied upon by any other person or entity without NV5'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. NV5 cannot be held 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, NV5 has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, NV5 accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

NV5 will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. NV5 makes no warranty, expressed or implied.

This report is issued with the understanding that the Client 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.

11 SIGNATORY

Respectfully submitted by:

NV5

Reid Shigeno
Project Manager, Site Assessment

Bryan Stone, PE
Vice President, Site Assessment and Remediation

Appendix A

Sample Inventory

Summary of Samples

CLIENT: Los Angeles Unified School District
PROJECT NO: LAUS-20-9734
PROJECT: Vaughn Next Century Learning Center, PCB
Date: January 29, 2021

Building Name	Sample Number	Component	Sample Description	Sample Location	Material Location	Total PCBs (ppm)
Main Building (002 DAN)	1210-01	Paint	Tan Paint on Wall	NE Exterior of Building	Exterior Walls	Non-Detected
Main Building (002 DAN)	1210-02	Paint	Tan Paint on Electrical Conduit	NE Conduit of N Ext Wall	Exterior of Main Office	Non-Detected
Main Building (002 DAN)	1210-03	Paint	Tan Paint on Down Spout	NE Down Spout	Exterior of Main Office	Non-Detected
Main Building (002 DAN)	1210-04	Paint	Green Paint on Gutter	W Gutter of Building	East and West Exterior of Building	Non-Detected
Main Building (002 DAN)	1210-05	Paint	White Paint on Window Frame	West Wall Windows (Ext)	Building Windows	Non-Detected
Main Building (002 DAN)	1210-05 Dup	Paint	White Paint on Window Frame	West Wall Windows (Ext)	Building Windows	Non-Detected
Main Building (002 DAN)	1210-06	Paint	Burgundy Paint on Wood Door	SE Door of Main Building	Building Doors	Non-Detected
Main Building (002 DAN)	1210-07	Paint	Tan Paint on Wood Panel	NE Panel, N Ext of Bldg	Exterior of Building	Non-Detected
Main Building (002 DAN)	1210-08	Caulking	Caulking Around Wooden Panel	NE Panel, N Ext of Bldg	Exterior of Building	Non-Detected
Main Building (002 DAN)	1210-09	Putty	Window Putty	W/Center Window of W Ext of Building	Building Windows	Non-Detected
Main Building (002 DAN)	1210-10	Caulking	Window Frame Caulking	W Window by Entrance	Building Windows	Non-Detected
Main Building (002 DAN)	1210-10 Dup	Caulking	Window Frame Caulking	W Window by Entrance	Building Windows	Non-Detected
Main Building (002 DAN)	1210-11	Paint	White Paint on Wooden Panel	NE of W Ext of Building	Exterior of Building	Non-Detected
Main Building (002 DAN)	1210-12	Paint	White Paint on Door Frame	West/Center Entrance	Building Door Entrances	Non-Detected
Main Building (002 DAN)	1210-13	Caulking	Door Frame Caulking	West/Center Entrance	Building Door Entrances	Non-Detected
Main Building (002 DAN)	1210-14	Paint	White Paint on Arcade Ceiling	W of West Arcade	West Arcade of Building	Non-Detected
Main Building (002 DAN)	1210-14 Dup	Paint	White Paint on Arcade Ceiling	W of West Arcade	West Arcade of Building	Non-Detected
Main Building (002 DAN)	1210-15	Paint	Tan Paint on Metal Vent	NW Vent on Ext N Side	Exterior of Main Building	Non-Detected
Main Building (002 DAN)	1210-16	Paint	Green Paint on Metal Support of Arcade	NW of West Arcade	Exterior of Main Building	Non-Detected
Main Building (002 DAN)	1210-17	Paint	Green Paint on Down Spout	NW of West Arcade	Exterior of Main Building	Non-Detected
Main Building (002 DAN)	1210-18	Paint	Yellow Paint on Plaster Wall	SW of Clerical Office	Interior of Main Office Walls	1.89
Main Building (002 DAN)	1210-19	Paint	White Paint on Wood Door	N Door of Health RR	Main Building Health Restrooms	6.80
Main Building (002 DAN)	1210-20	Paint	Yellow Paint on Electrical Conduit	SW of Clerical Office	Interior of Main Office	4.35
Main Building (002 DAN)	1210-20 Dup	Paint	Yellow Paint on Electrical Conduit	SW of Clerical Office	Interior of Main Office	4.10
Main Building (002 DAN)	1210-21	Paint	Yellow Paint of Board Trim	W Board of Clerical Office	Interior Walls of Main Building	3.67
Main Building (002 DAN)	1210-22	Paint	White Paint of Door Frame	N Door Frame of Workroom	Main Building Entrances	29.7
Main Building (002 DAN)	1210-23	Paint	White Paint on Cabinets/Shelves	SW of Workroom, N Cabinets	Interior of Main Building	6.12
Main Building (002 DAN)	1210-24	Paint	Tan Paint on Plaster	E Wall of Main Office Entrance	Interior Walls of Main Building	2.63
Main Building (002 DAN)	1210-25	Mastic	Green 4" Cove Base w/mastic	W of Workroom	Interior Walls of Main Building	Non-Detected
Main Building (002 DAN)	1210-25 Dup	Mastic	Green 4" Cove Base w/mastic	W of Workroom	Interior Walls of Main Building	0.602

Summary of Samples

CLIENT: Los Angeles Unified School District
PROJECT NO: LAUS-20-9734
PROJECT: Vaughn Next Century Learning Center, PCB
Date: January 29, 2021

Building Name	Sample Number	Component	Sample Description	Sample Location	Material Location	Total PCBs (ppm)
Main Building (002 DAN)	1210-26	Paint	Pink Paint on Plaster	W Telephone Closet of Workroom	Interior Walls of Main Building	31.7
Main Building (002 DAN)	1210-27	Paint	White Paint on Metal Door Frame	S Door Frame in Server Closet	Main Building Entrances	2.96
Main Building (002 DAN)	1210-28	Paint	Green Paint on Cabinets	Cabinets N of Main Office	Interior of Main Building	2.30
Main Building (002 DAN)	1210-29	Paint	Blue Paint on Plaster	W of Workroom in Telephone Closet	Interior of Main Building	10.6
Main Building (002 DAN)	1210-30	Mastic	12x12 Floor Tile w/Black Mastic (Grey with Brown Spots)	NE of East Office	Main Building Flooring	Non-Detected
Main Building (002 DAN)	1210-30 Dup	Mastic	12x12 Floor Tile w/Black Mastic (Grey with Brown Spots)	NE of East Office	Main Building Flooring	Non-Detected
Main Building (002 DAN)	1210-31	Paint	Yellow Paint on Electrical Panel	S Hallway of Workroom	Interior of Main Building	5.55
Main Building (002 DAN)	1210-32	Sealant	Silicone Sealant on Partition Glass	N Partition Glass at Main Entrance of Main Office	Interior of Main Building	Non-Detected
Main Building (002 DAN)	1210-33	Paint	Green Paint of Metal Flashing	W Exterior of Arcade	Main Building West Arcade	Non-Detected
Main Building (002 DAN)	1210-34	Paint	Tan Paint of Metal Flashing	NE of West Arcade	Main Building West Arcade	Non-Detected
Main Building (002 DAN)	1210-35	Mastic	Black Mastic on Arcade Penetration	NE Penetration of West Arcade	Main Building West Arcade	Non-Detected
Main Building (002 DAN)	1210-35 Dup	Mastic	Black Mastic on Arcade Penetration	NE Penetration of West Arcade	Main Building West Arcade	Non-Detected
Main Building (002 DAN)	1210-36	Caulking	White Caulking at Arcade Seam	NE Arcade a Main Building Seam	Main Building West Arcade	Non-Detected
Main Building (002 DAN)	1210-37	Mastic	Black Mastic on Arcade Penetration	W/Center of Roof	Main Building Roof	Non-Detected
Main Building (002 DAN)	1210-38	Felt	Arcade Roofing Felt	E/Center of Arcade	Arcade Roof	Non-Detected

Appendix B

Laboratory Reports

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

Date: December 17, 2020

Mr. Reid Shigeno
NV5
3777 Long Beach Blvd, Annex Building
Long Beach, CA 90807
Tel:(562)495-5777 E-Mail: Reid.Shigeno@NV5.com

Project: **Vaughn NCLC / LAUS-20-9734**
Lab I.D.: **201211-1 through -45**

Dear Mr. Shigeno:

The **analytical results** for the solid samples, received by our laboratory on December 11, 2020, are attached. The samples were received chilled, 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: NV5
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 E-Mail: Reid.Shigeno@NV5.com
PROJECT: Vaughn NCLC / LAUS-20-9734

DATE RECEIVED:12/11/20
DATE SAMPLED:12/10/20
DATE EXTRACTED:12/13-14/20
MATRIX:SOLID
DATE ANALYZED:12/14-15/20
REPORT TO:MR. REID SHEGENO
DATE REPORTED:12/17/20

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 1 OF 3
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
1210-01	201211-1	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-02	201211-2	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-03	201211-3	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-04	201211-4	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-05	201211-5	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-05 Duplicate	201211-6	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-06	201211-7	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-07	201211-8	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-08	201211-9	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-09	201211-10	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-10	201211-11	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-10 Duplicate	201211-12	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-11	201211-13	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-12	201211-14	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-13	201211-15	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-14	201211-16	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-14 Duplicate	201211-17	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-15	201211-18	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-16	201211-19	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-17	201211-20	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
^ = Actual detection limit raised due to limited sample quantity
* = 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: BU
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: **12/14~15/2020**

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: **201214-LCS 1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.080	**80%**	0.088	**88%**	**9%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.098	**98%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	201211-1	201211-2	201211-3	201211-4	201211-5	201211-6
Tetra-chloro-meta-xylene	50-150	120%	124%	98%	98%	113%	122%	134%
Decachlorobipneyl	50-150	64%	70%	51%	61%	56%	53%	57%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	201211-7	201211-8	201211-9	201211-10	201211-11	201211-12	201211-13	201211-14
Tetra-chloro-meta-xylene	65%	120%	83%	108%	72%	86%	88%	109%
Decachlorobipneyl	78%	59%	82%	68%	76%	56%	62%	60%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	201211-15	201211-16	201211-17	201211-18	201211-19	201211-20
Tetra-chloro-meta-xylene	88%	92%	64%	129%	108%	87%
Decachlorobipneyl	59%	70%	65%	66%	74%	64%

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

LABORATORY REPORT

CUSTOMER: NV5
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 E-Mail: Reid.Shigeno@NV5.com
PROJECT: Vaughn NCLC / LAUS-20-9734

DATE RECEIVED:12/11/20
DATE SAMPLED:12/10/20
DATE EXTRACTED:12/13-14/20
MATRIX:SOLID
DATE ANALYZED:12/15-16/20
REPORT TO:MR. REID SHEGENO
DATE REPORTED:12/17/20

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 2 OF 3
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
1210-18	201211-21	ND	ND	ND	ND	ND	1.89	ND	1.89	2
1210-19	201211-22	ND	ND	ND	ND	ND	6.80	ND	6.80	2
1210-20	201211-23	ND	ND	ND	ND	ND	4.35	ND	4.35	2
1210-20 Duplicate	201211-24	ND	ND	ND	ND	ND	4.10	ND	4.10	2
1210-21	201211-25	ND	ND	ND	ND	ND	3.67	ND	3.67	1
1210-22	201211-26	ND	ND	ND	ND	ND	29.7	ND	29.7	10
1210-23	201211-27	ND	ND	ND	ND	ND	6.12	ND	6.12	1
1210-24	201211-28	ND	ND	ND	ND	ND	2.63	ND	2.63	1
1210-25	201211-29	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-25 Duplicate	201211-30	ND	ND	ND	ND	ND	0.602	ND	0.602	1
1210-26	201211-31	ND	ND	ND	ND	ND	31.7	ND	31.7	10
1210-27	201211-32	ND	ND	ND	ND	ND	2.96	ND	2.96	2
1210-28	201211-33	ND	ND	ND	ND	ND	2.30	ND	2.30	2
1210-29	201211-34	ND	ND	ND	ND	ND	10.6	ND	10.6	1
1210-30	201211-35	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-30 Duplicate	201211-36	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: **12/15~16/20**

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: **201215-LCS 1/2**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.093	**93%**	0.083	**83%**	**12%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.089	**89%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	201211-21	201211-22	201211-23	201211-24	201211-25	201211-26
Tetra-chloro-meta-xylene	50-150	119%	125%	90%	124%	91%	135%	97%
Decachlorobipneyl	50-150	64%	76%	81%	53%	55%	63%	68%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	201211-27	201211-28	201211-29	201211-30	201211-31	201211-32	201211-33	201211-34
Tetra-chloro-meta-xylene	98%	121%	112%	82%	127%	117%	100%	108%
Decachlorobipneyl	77%	59%	57%	64%	56%	61%	65%	58%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	201211-35	201211-36				
Tetra-chloro-meta-xylene	104%	124%				
Decachlorobipneyl	58%	78%				

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

LABORATORY REPORT

CUSTOMER: NV5
3777 Long Beach Blvd, Annex Building, Long Beach, CA 90807
Tel:(562)495-5777 E-Mail: Reid.Shigeno@NV5.com

PROJECT: Vaughn NCLC / LAUS-20-9734

DATE RECEIVED:12/11/20
DATE SAMPLED:12/10/20
DATE EXTRACTED:12/13-14/20
MATRIX:SOLID
DATE ANALYZED:12/16/20
REPORT TO:MR. REID SHEGENO
DATE REPORTED:12/17/20

PCBs ANALYSIS
METHOD: EPA 3540C/8082; PAGE 3 OF 3
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
1210-31	201211-37	ND	ND	ND	ND	ND	5.55	ND	5.55	1
1210-32	201211-38	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-33	201211-39	ND	ND	ND	ND	ND	ND	ND	ND	2^
1210-34	201211-40	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-35	201211-41	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-35 Duplicate	201211-42	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-36	201211-43	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-37	201211-44	ND	ND	ND	ND	ND	ND	ND	ND	1
1210-38	201211-45	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
^ = Actual detection limit raised due to limited sample quantity
* = 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: **12/16/2020**

Unit: mg/Kg(PPM)

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

Spiked Sample Lab I.D.: **201215-LCS 3/4**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
PCB (1016+1260)	0.000	0.100	0.078	**78%**	0.076	**76%**	**3%**	**0-20%**	**70-130**

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
PCB (1016+1260)	0.100	0.087	**87%**	**75-125**

Surrogate Recovery	ACP%	ACP%	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	201211-37	201211-38	201211-39	201211-40	201211-41	201211-42
Tetra-chloro-meta-xylene	50-150	127%	96%	114%	74%	117%	123%	74%
Decachlorobipneyl	50-150	56%	77%	55%	60%	55%	56%	60%

Surrogate Recovery	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.	201211-43	201211-44	201211-45					
Tetra-chloro-meta-xylene	79%	102%	79%					
Decachlorobipneyl	66%	62%	65%					

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

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No OF CONTAINERS	TEMPERATURE	PRESERVATION	PCBs (8082) Soxhlet Extraction (3540C)	COMMENTS
1210 -01	201211-1	12-10-20	0752	BULK	1 Bag		SCF	✓	
-02	-2		0758					✓	
-03	-3		0802					✓	
-04	-4		0940					✓	
-05	-5		0810					✓	
-05 Duplicate	-6		0810					✓	Duplicate
-06	-7		0823					✓	
-07	-8		0827					✓	
-08	-9		0841					✓	
-09	-10		0837					✓	
-10	-11		0848					✓	
-10 Duplicate	-12		0848					✓	Duplicate
-11	-13		0852					✓	
-12	-14		0854					✓	
-13	-15		0917					✓	

Analysis Required

Misc.

Company Name: NV5	Project Contact: Reid Shigeno	Sampler's Signature: [signature]
Address: 3777 Long Beach Blvd, Annex Building	Tel: 562-495-5777	Project Name/ID: Vaughn NCLC LAUS-20-9734
City/State/Zip: Long Beach, CA 90807	Fax:	

Relinquished by: Carbery Beverril	Received by: [signature]	Date & Time: 12-10-20 1735	Instructions for Sample Storage After Analysis: O Dispose of O Return to Client O Store (30 Days) O Other
Relinquished by:	Received by:	Date & Time:	
Relinquished by:	Received by:	Date & Time:	

CHAIN OF CUSTODY RECORD

Date: 12-10-20

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
- O Same Day
- O 24 Hours
- O 48 Hours
- O 72 Hours
- ☒ 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	PCBs (8082) Soxhlet Extraction (3540C)		Misc. COMMENTS
1210 - 14	2021 - 16	12-10-20	0920	Bulk	1 Bag		ICE			
-14 Duplicate	-17		0920							Duplicate
-15	-18		1443							
-16	-19		0925							
-17	-20		0927							
-18	-21		1010							
-19	-22		0955							
-20	-23		1012							
-20 Duplicate	-24		1012							Duplicate
-21	-25		1014							
-22	-26		1018							
-23	-27		1024							
-24	-28		1028							
-25	-29		1033							
-25 Duplicate	-30		1033							Duplicate

Analysis Required

Company Name: NV5	Project Contact: Reid Shigeno	Sampler's Signature: [signature]
Address: 3777 Long Beach Blvd, Annex Building	Tel: 562-495-5777	Project Name/ID: Vaughn NCLC LAUS-20-9734
City/State/Zip: Long Beach, CA 90807	Fax:	

Relinquished by: Carbony Beserril	Received by: [signature]	Date & Time: 12-10-20 1731	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other

CHAIN OF CUSTODY RECORD

Date: 12-10-20

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
- O Same Day
- O 24 Hours
- O 48 Hours
- O 72 Hours
- ☒ 1 Week (Standard)
- Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No OF CONTAINERS	TEMPERATURE	PRESERVATION	PCBs (8082) Soxhlet Extraction (3540C)	COMMENTS
1210 -26	2021 31	12-10-20	1336	Bulk	1 Bag		ICE	✓	
-27	-32		1341					✓	
-28	-33		1346					✓	
-29	-34		1350					✓	
-30	-35		1410					✓	
-30 Duplicate	-36		1410					✓	Duplicate
-31	-37		1355					✓	
-32	-38		1357					✓	
-33	-39		1359					✓	
-34	-40		1449					✓	
-35	-41		1452					✓	
-35 Duplicate	-42		1452					✓	Duplicate
-36	-43		1500					✓	
-37	-44		1519					✓	
-38	-45		1527					✓	

Analysis Required

Misc.

Company Name: NV5	Project Contact: Reid Shigeno	Sampler's Signature: [signature]
Address: 3777 Long Beach Blvd, Annex Building	Tel: 562-495-5777	Project Name/ID: Vaughn NCLC LAUS-20-9734
City/State/Zip: Long Beach, CA 90807	Fax:	

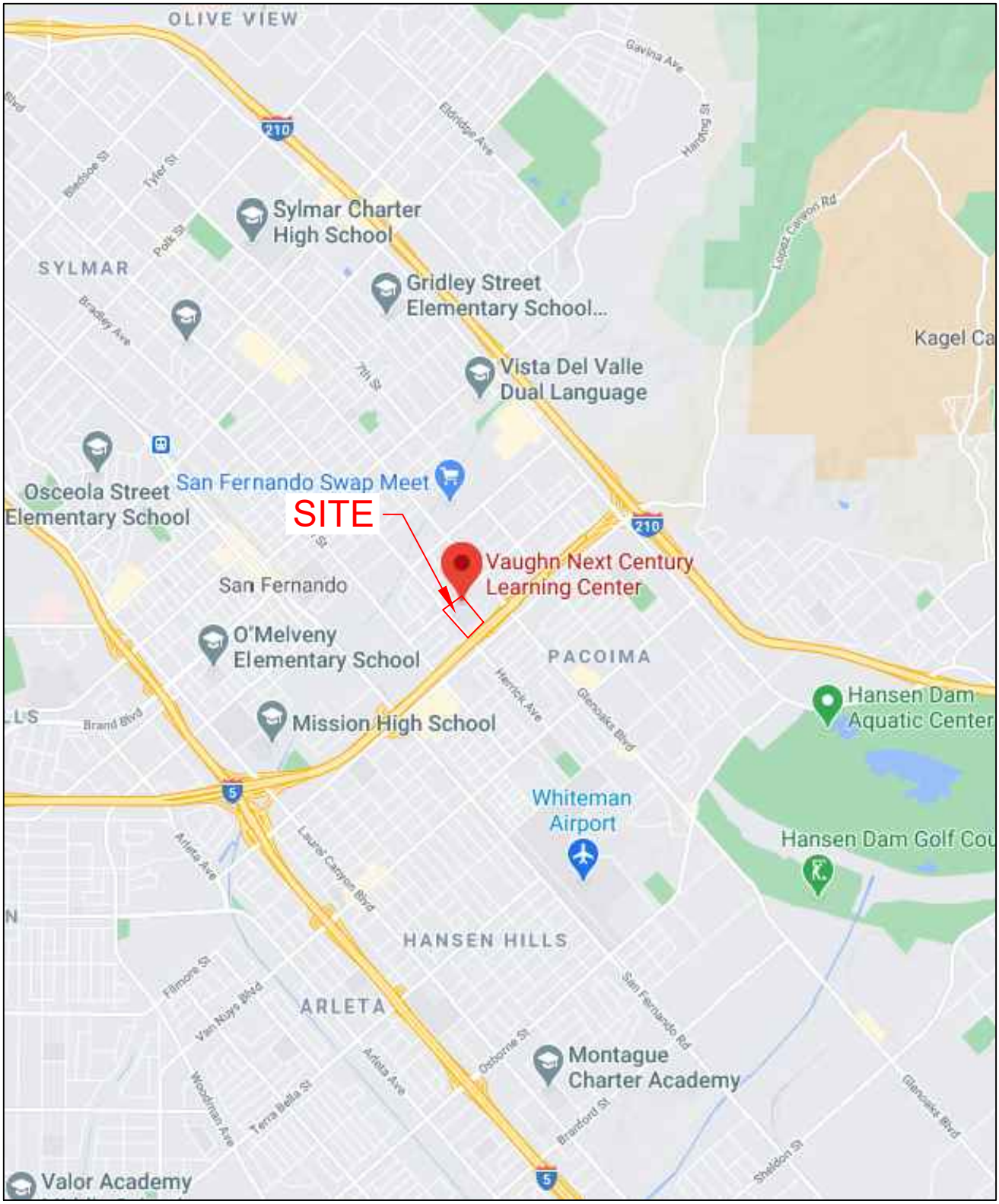
Relinquished by: Courtney Beccerril	Received by: [signature]	Date & Time: 12-10-20 1931	Instructions for Sample Storage After Analysis:
Relinquished by:	Received by:	Date & Time:	O Dispose of O Return to Client O Store (30 Days)
Relinquished by:	Received by:	Date & Time:	O Other

CHAIN OF CUSTODY RECORD

Date: 12-10-20

WHITE WITH SAMPLE / YELLOW TO CLIENT

Appendix C
Sample Location Maps



Approximate Outline of Site

FIGURE 1: Site Vicinity Map

CLIENT: Los Angeles Unified School District	SITE LOCATION:	Vaughn Next Century Learning Center 13330 Vaughn Street San Fernando, CA 91340	
PROJECT #: LAUS-20-9734			
NV5 3777 Long Beach Blvd., Annex Bldg. Long Beach, CA 90807 (562) 495-5777 www.NV5.com	DRAWN: RS	APPROVED: BS	NORTH
	SCALE: NONE	DATE: Feb. 2021	

W:\Clients H-M\Los Angeles Unified School District (LAUS)\LAUS-20-9734 Vaughn NCLC PCB\Photos - Drawings\CAD Files\LAUS-20-9734.dwg

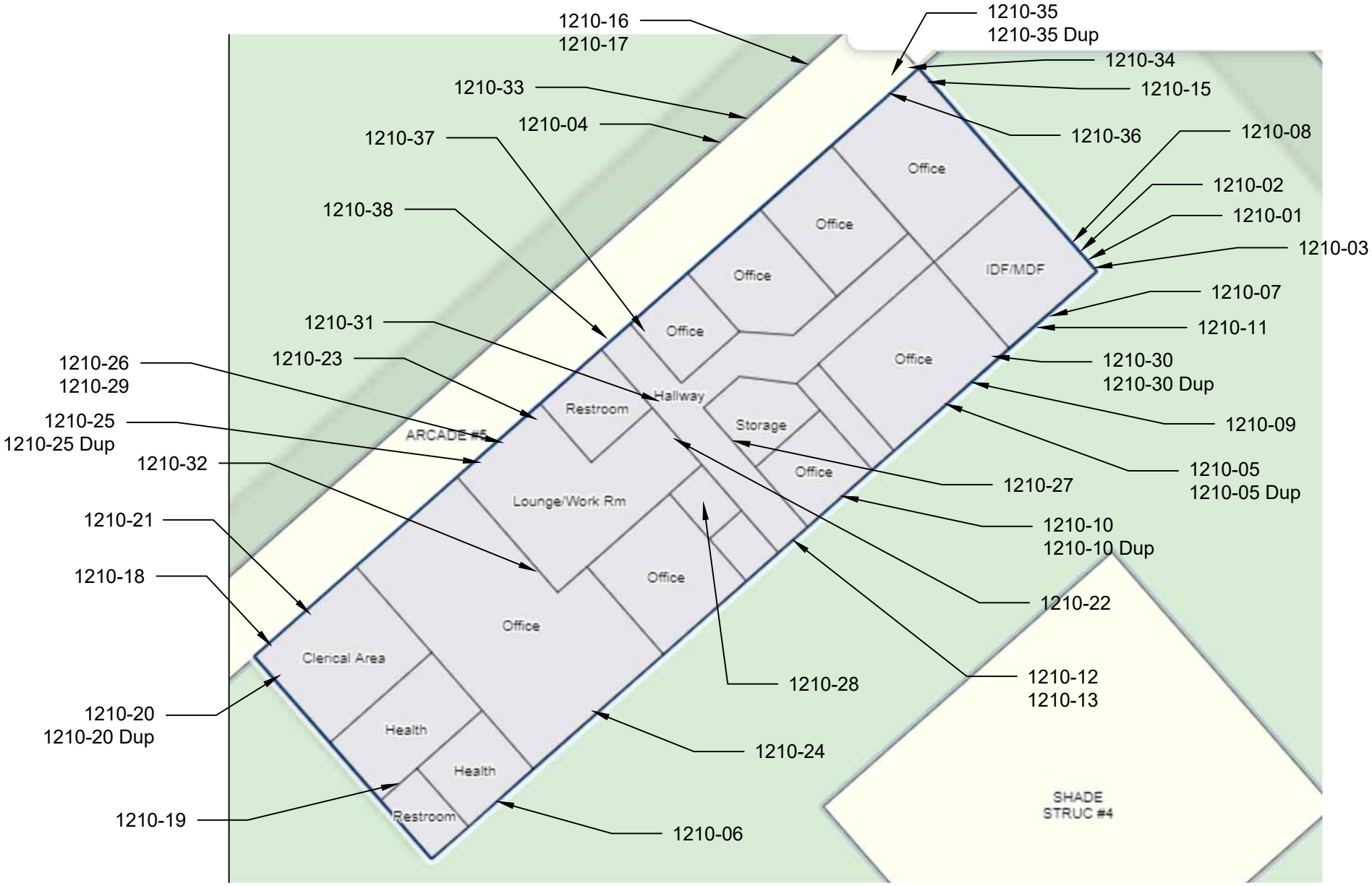


FIGURE 2: Sample Location Map

CLIENT: Los Angeles Unified School District	DRAWN: RS	APPROVED: BS	NORTH
	SCALE: None	DATE: Feb. 2021	
SITE LOCATION: Vaughn Next Century Learning 13330 Vaughn Street San Fernando, CA 91340	PROJECT #: LAUS-20-9734		

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

W:\Clients H-M\Los Angeles Unified School District (LAUS)\LAUS-20-9734 Vaughn NCLC PCB\Photos - Drawings\CAD Files\LAUS-20-9734.dwg

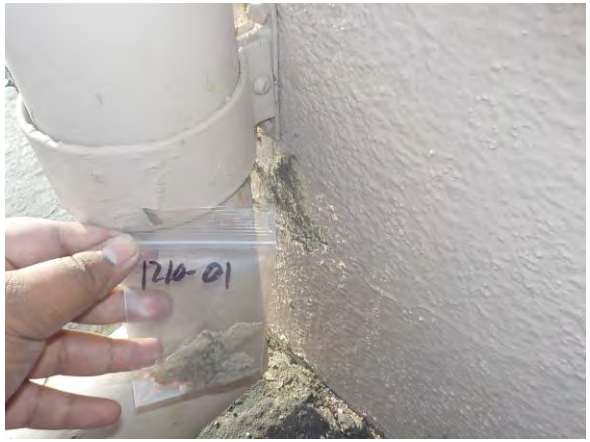
Appendix D

Photographs

Vaughn Next Century Learning Center

Main Building Demolition

1210-01



1210-02

Vaughn Next Century Learning Center

Main Building Demolition

1210-03

1210-04

Vaughn Next Century Learning Center

Main Building Demolition

1210-05

1210-06

Vaughn Next Century Learning Center

Main Building Demolition

1210-07

1210-08

Vaughn Next Century Learning Center

Main Building Demolition

1210-09

1210-10

Vaughn Next Century Learning Center

Main Building Demolition

1210-09

1210-10

Vaughn Next Century Learning Center

Main Building Demolition

1210-11

1210-12

Vaughn Next Century Learning Center

Main Building Demolition

1210-13

1210-14

Vaughn Next Century Learning Center

Main Building Demolition

1210-15

1210-16

Vaughn Next Century Learning Center

Main Building Demolition

1210-17

1210-18

Vaughn Next Century Learning Center

Main Building Demolition

1210-19

1210-20

Vaughn Next Century Learning Center

Main Building Demolition

1210-21

1210-22

Vaughn Next Century Learning Center

Main Building Demolition

1210-23

1210-24

Vaughn Next Century Learning Center

Main Building Demolition

1210-25

1210-26

Vaughn Next Century Learning Center

Main Building Demolition

1210-27

1210-28

Vaughn Next Century Learning Center

Main Building Demolition

1210-28

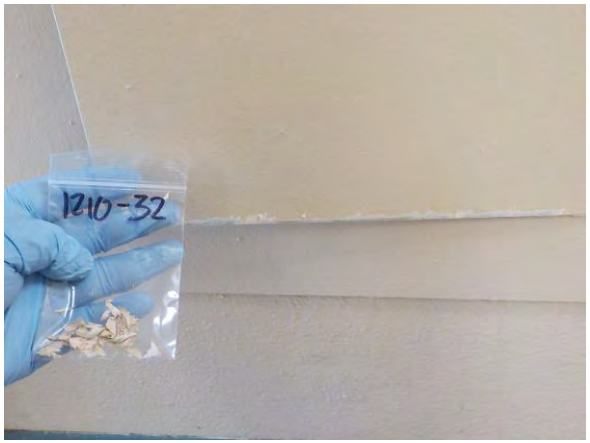
1210-29

Vaughn Next Century Learning Center

Main Building Demolition

1210-30

1210-31



Vaughn Next Century Learning Center

Main Building Demolition

1210-32

1210-33

Vaughn Next Century Learning Center

Main Building Demolition

1210-34

1210-35

Vaughn Next Century Learning Center

Main Building Demolition

1210-36

1210-37

Vaughn Next Century Learning Center

Main Building Demolition

1210-38