

State of Hawaii  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
ENGINEERING DIVISION  
1151 Punchbowl Street, Room 221  
Honolulu, Hawaii 96813

**ADDENDUM NO. 3**

TO

Job No. E00BO99A  
DLNR Land Division Office Improvements  
Kalanimoku Building, Room 220  
Honolulu, Oahu, Hawaii

May 21, 2024

This addendum as issued shall become part of the Contract Documents for the subject project. The bid documents, plans, and specifications shall be amended as follows:

**SPECIFICATIONS**

1. 01715 – Existing Conditions - Asbestos / Lead / Hazardous Material Survey  
Added Section 1.6 for Polychlorinated Biphenyls (PCB) testing results for asbestos materials, including a revised Hazardous Material Survey Report.
2. 13281 – Asbestos Abatement  
Deleted Section 3.9(A): “The Contractor shall conduct any additional testing as required by the Waimanalo Gulch Landfill.”
3. 13288 – Testing and Monitoring  
Added Section 3.3(B)(3): “Laboratory analysis by PCBs analysis using NIOSH 5503 method.”

**PLANS**

1. Sheet A-9 – Revised manufacturer contact information in the Finish / Material Schedule.

Engineering Division



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Carty S. Chang  
Chief Engineer

Job No. E00BO99A  
DLNR Land Division Office Improvements  
Kalanimoku Building, Room 220  
Honolulu, Oahu, Hawaii

## SECTION 01715

### EXISTING CONDITIONS - ASBESTOS / LEAD / HAZARDOUS MATERIAL SURVEY

#### PART 1 - GENERAL

##### 1.1 GENERAL REQUIREMENTS

As specified in Section 01019 - GENERAL SPECIFICATIONS, Special Provisions, and the General Conditions of the Contract.

##### 1.2 DESCRIPTION OF WORK

Accomplish all demolition and removal indicated on or required by the drawings, and as specified herein.

##### 1.3 GENERAL REQUIREMENTS

A. This section includes the results of the State's surveys for Asbestos Containing Materials, Lead-Containing Paint, and other hazardous materials; and is provided for the Contractor's information.

B. Related Sections include the following:

1. SECTION 13281 - ASBESTOS ABATEMENT; and
2. SECTION 13288 - TESTING AND AIR MONITORING

##### 1.4 ASBESTOS

A. The structure or structures to be renovated or modified under this contract were surveyed for the presence of asbestos containing material (ACM), using NESHAP requirements. ACM was identified in the areas to be renovated or modified. A copy of the initial survey report, as well as any subsequent supplemental survey report(s) if performed, is included in this Section.

1. The report(s) are included for the Contractor's information. Review the attached report(s) for other materials to be disturbed. The Contractor may perform further surveys at its own expense, if ACBM not shown in the report(s) is suspected in the areas of the building(s) in which work will be performed. If ACBM is found, notify the Engineer immediately. The Engineer will reimburse the Contractor for the testing cost if ACBM is found.
2. If there is ACBM outside of the area in which work will be performed, this ACBM shall not be disturbed in any way.

Job No. E00BO99A  
DLNR Land Division Office Improvements  
Kalanimoku Building, Room 220  
Honolulu, Oahu, Hawaii

Existing Conditions - Asbestos / Lead / Hazardous Material Survey  
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- B. If applicable, notify employees, Subcontractors and all other persons engaged on the project of the presence of asbestos in the existing buildings in accordance with the requirements of State of Hawaii: Occupational Safety and Health Administration 29 CFR 1926.1101, Asbestos.
- C. In the event that work is required in any building or buildings on the site other than the one(s) designated within this project scope, request copies of the asbestos survey report(s) for such building(s) from the Engineer. Based on the information contained in the additional survey(s), notify affected personnel.

#### 1.5 LEAD

- A. Review the attached lead testing data which was for design purposes only, and the results do not satisfy any of the requirements of 29 CFR 1926.62 Lead.
- B. Lead was not identified in the project areas.

#### 1.6 POLYCHLORINATED BIPHENYLS

- A. Review the attached PCBs testing data which was for design purposes only, and the results do not satisfy any of the OSHA Requirements.
- B. PCBs were detected in the floor mastic below the EPA threshold level of 50 mg/kg.

### PART 2 - PRODUCTS (NOT USED)

### PART 3 - EXECUTION

#### 3.1 SURVEY ATTACHED

Limited Hazardous Material Survey, DLNR LD Office Improvements, Room 220, Kalanimoku Building, 30 pages, dated May 2024, prepared by EnviroQuest, Inc.

END OF SECTION



EnviroQuest

**S**ERVICES

HAZMAT Inspections

Remediation Design

Asbestos Management

Lead Management

Lead Risk Assessment

Industrial Hygiene

Indoor Air Quality

Mold Assessment

Environmental Site  
Assessments

Subsurface Investigation

Water Sampling

Asbestos Training

Lead Training

OSHA Training

OSHA Compliance

## LIMITED HAZARDOUS MATERIAL SURVEY

DLNR LD OFFICE IMPROVEMENTS  
ROOM 220, KALANIMOKU BUILDING  
HONOLULU, HAWAII

EnviroQuest Project: 303564

May 2024

***Prepared for:***

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826 Kaheka Street, #305  
Honolulu, Hawaii 96814

***Prepared by:***

EnviroQuest, Inc.  
98-029 Hekaha Street, Suite 21  
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*David Leigh*  
PM/CIH



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LABORATORY ANALYTICAL REPORT



# 1 INTRODUCTION

A limited hazardous material survey (HMS) was conducted on March 19, and May 15, 2024, at Room 220, Kalanimoku Building, 1151 Punchbowl Street, Honolulu, Hawaii 96813.

The purpose of the activities under this project was to perform sampling for asbestos-containing materials (ACMs), lead-based paint (LBP) and polychlorinated biphenyls (PCBs) that may be encountered during the renovation work.

## 1.1 SITE LOCATION

The listed area was included in our inspection:

- Room 220



## 2 ASBESTOS

Nine samples were collected from suspect asbestos-containing materials.

### 2.1 METHODOLOGY

A visual inspection for suspect ACM and homogeneous areas (areas that have uniform color, texture, and appearance) was conducted. Suspect materials were divided into three Environmental Protection Agency (EPA) categories:

- Surfacing Materials (sprayed or troweled-on materials)
- Thermal Systems Insulations (materials generally applied to various mechanical systems)
- Miscellaneous Materials (any materials which do not fit in the above categories)

Sampling methodology generally followed the procedures presented in EPA 40 CFR 763 *Asbestos Subpart E Asbestos Containing Materials in Schools* and Hawaii Department of Health (HDOH), Hawaii Administrative Rules (HAR) Titles 11-501 *Asbestos Requirements* and 11-502 *Asbestos Containing Materials in Schools*.

### 2.2 RESULTS

Samples were submitted to Hawaii Analytical Laboratory (HAL), LLC, in Honolulu, Hawaii, a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory. The samples were analyzed by polarized-light microscopy (PLM) using EPA Method 40 CFR, Part 763, Appendix E to Subpart E *Interim Method of the Determination of Asbestos in Bulk Insulation Samples* and EPA 600/R-93-116, *Method for the Determination of Asbestos in Bulk Building Materials*. HAL is also registered to provide asbestos laboratory services in Hawaii under HDOH 11-504 *Asbestos Abatement Certification Program*.

Based on the laboratory analytical results, asbestos was identified in three of the 9 samples. All three samples were determined to be asbestos-containing material (ACM), materials containing more than 1% asbestos. In accordance with the National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61 Part M, samples consisting of distinct layers of materials were analyzed and reported separately by the laboratory. A summary of the data is presented in Table 1.

Refer to the accompanying appendices for the laboratory results and photographs.



## **3 LEAD**

Three paint film samples were collected from painted or coated materials.

### **3.1 METHODOLOGY**

A visual inspection for painted or coated building surfaces was conducted. Sampling methodology generally followed the procedures presented in the U.S. Department of Housing and Urban Development's document *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing* and EPA 40 CFR 745 *Lead-Based Paint Poisoning Prevention in Certain Residential Structures*.

### **3.2 RESULTS**

Samples were submitted to HAL, an American Industrial Hygiene Association (AIHA) accredited laboratory with a specific accreditation for lead analysis under AIHA Environmental Lead Laboratory Accreditation Program. The paint film samples were analyzed by NIOSH Method 7082m, *Flame Atomic Absorption Spectrophotometry*.

Based on the laboratory analytical results, none of the samples had lead concentrations at/or above the laboratory detection limits. The EPA defines lead-based paint as paint or other coatings containing lead equal to, or in excess of, 0.5% lead by weight. A summary of the data is presented in Table 2.

Refer to the accompanying appendices for laboratory analytical results and photographs.





## 4 POLYCHLORINATED BIPHENYLS

Two samples were collected from suspect PCB-containing materials.

### 4.1 METHODOLOGY

The samples were collected from the floor and baseboard mastic that will be impacted by the planned renovation work. The samples were collected using a hand chisel or utility knife and then placed into individual plastic bags which were sealed and labeled. The samples were then placed into another sealed bag for storage. Sampling equipment was cleaned between each sampling to avoid cross-contamination between samples.

### 4.2 RESULTS

The samples were submitted to HAL for analysis via EPA Method 8082A, *Polychlorinated Biphenyls by Gas Chromatography*.

Based on the laboratory analytical result, none of the samples were identified as containing PCBs at or greater than 50 mg/kg. Building products found to contain  $\geq 50$  ppm PCBs are classified as PCB bulk product waste under federal regulations through the Toxics Substances Control Act (TSCA). A summary of the data is presented in Table 3.

Refer to the accompanying appendices for laboratory analytical results and photographs.



## 5 SUMMARY

The areas and materials sampled in this inspection were specific to this project.

### 5.1 ASBESTOS

The listed material was identified as asbestos-containing material.

Area	ACM	Location
Room 220	Tan floor tiles and associated black mastic	Entire floor under carpet

If the material is likely to be disturbed during the renovation work, the materials must be removed by a certified asbestos abatement contractor under controlled conditions in accordance with EPA and HDOH regulations. Work should also be monitored by an independent HDOH accredited Asbestos Project Monitor.

### 5.2 LEAD

Lead was not detected at/or above the laboratory detection limits in the samples.

### 5.3 POLYCHLORINATED BIPHENYLS

Based on the analytical laboratory report, the floor mastic contained PCBs at 2.1 ppm. PCBs were not detected in the baseboard mastic. Building products found to contain  $\geq 50$  ppm PCBs are classified as PCB bulk product waste under federal regulations through the Toxics Substances Control Act (TSCA). Such materials must be disposed of as PCB waste at a mainland landfill that accepts such waste. However, none of the samples were identified as containing PCBs at or above 50 ppm. The floor mastic may be disposed of at a Waimanalo Gulch Landfill.

Although PCBs were detected at less than 50 ppm in the floor mastic, the Contractor's employees removing or disturbing the material must be informed it contains PCBs and must receive appropriate OSHA training.



## 6 LIMITATIONS

The information set forth is based solely on the agreed upon scope of services, personal observation, laboratory data, and information provided by Omizu Architecture, Inc.

Although this inspection provides information on the relative presence or absence of asbestos-containing material, lead paint and polychlorinated biphenyls, it should not be construed as a final statement that all hazardous materials have been identified.

Given the often obscure and elusive nature of hazardous materials, it is never possible to absolutely dismiss the possibility of additional hazardous materials. EnviroQuest, Inc. expressly disclaims any and all liability, representations, expressed or implied, contained in, or for omission from this report, or any other written or oral communication which might be interpreted as establishing the total extent of all liability present at the subject property.

Our services have been performed with usual thoroughness and competence of the consulting profession, in accordance with the standard of professional services at this time. No other warranty or representation, either expressed or implied is included or intended.

Any question regarding our work and this report, the presentation of the information, and the interpretation of the data are welcome and should be referred to the undersigned. EQI greatly appreciates the opportunity to assist you with your industrial hygiene needs. We look forward to working with you again in the future.



**TABLE 1: ASBESTOS SAMPLING SUMMARY**

Homogenous Material	ACM <sub>1</sub> (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft <sup>2</sup> )	Condition <sub>2</sub>	Photo No.
Tan cove base with tan/yellow mastic	N	Interior wall base	220-01A 220-02A 220-03A	N	--	G	8
Gypsum board with joint compound	N	Interior wall	220-04A 220-05A 220-06A	N	--	G	7
Tan floor tiles with black mastic	Y	Interior floor (under carpet)	220-07A 220-08A 220-09A	N	5,500	G	2, 3, 4, 5, 6

1. ACM=>1% asbestos content

2. Good (G); Damaged (D) <10% distributed or 25% localized; Significant Damage (SD), >10% distributed or 25% localized

**TABLE 2: LEAD PAINT SAMPLING SUMMARY**

Paint Color	Int/Ext	LBP <sub>1</sub> (Y/N)	PWL <sub>2</sub> (Y/N)	Paint Location	Sample ID	Results (% Wt)	Condition <sub>3,4</sub>	Photo No.
White	Int	N	N	Interior partition gypsum wall	220-01P	<0.004	Intact	7
White/beige	Int	N	N	Metal door frame	220-02P	<0.004	Intact	10
White	Int	N	N	Concrete column	220-03P	<0.004	Intact	9

1. LBP = >0.5% lead by weight

2. PWL = >laboratory analytical detection limit but <0.5%

3. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft<sup>2</sup>; Poor - >10 ft<sup>2</sup>

4. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft<sup>2</sup> or ≤ 10%; Poor - >2 ft<sup>2</sup> or >10%

**TABLE 3: POLYCHLORINATED BIPHENYLS SAMPLE SUMMARY**

Material	Int/Ext	PCB <sub>1</sub> (Y/N)	Sample Location	Sample ID	Results (mg/kg)
Black floor mastic	Int	Y	Interior floor mastic (under floor tiles)	220-01PCB	2.1
Tan/yellow baseboard mastic	Int	N	Interior baseboard mastic (behind cove base)	220-02PCB	ND

1. PCB = >laboratory detection limit

2. ND = None Detect



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# APPENDIX A

REFERENCE PHOTOGRAPHS

# REFERENCE PHOTOGRAPHS

Photo 1: Kalanimoku Building



Photo 2: Kalanimoku Building  
Room 220.



Photo 3: Kalanimoku Building  
Room 220.

Asbestos containing tan floor tiles and black mastic under carpet.



## REFERENCE PHOTOGRAPHS

Photo 4: Kalanimoku Building  
Room 220.

Asbestos containing tan floor tiles and  
black mastic under carpet.



Photo 5: Kalanimoku Building  
Room 220.

Asbestos containing tan floor tiles and  
black mastic under carpet.



Photo 6: Kalanimoku Building  
Room 220.

Asbestos containing tan floor tiles and  
black mastic under carpet.



## REFERENCE PHOTOGRAPHS

Photo 7: Kalanimoku Building

Room 220.

Non-asbestos containing gypsum wallboard.

Lead was not detected in the white paint on the gypsum wallboard .



Photo 8: Kalanimoku Building

Room 220.

Non-asbestos containing cove base and mastic.

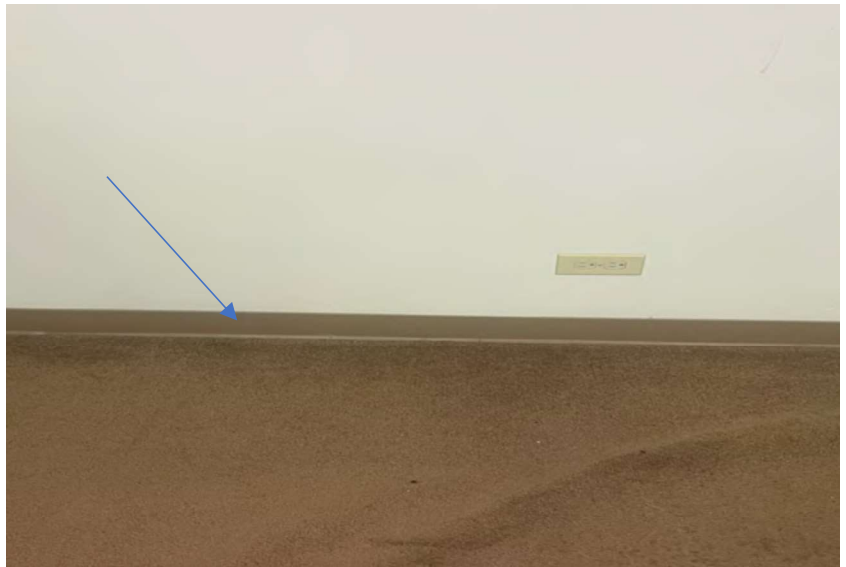


Photo 9 : Kalanimoku Building

Room 220.

Lead was not detected in the white paint on the concrete column.





## REFERENCE PHOTOGRAPHS

Photo 10: Kalanimoku Building  
Room 220.

Lead was not detected in the white over off-white paint on the metal door frame.

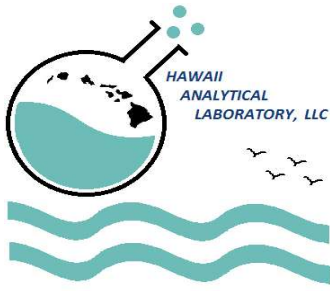




# APPENDIX B

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ASBESTOS  
LABORATORY ANALYTICAL REPORT



# Hawaii Analytical Laboratory ANALYTICAL REPORT

Friday, March 22, 2024

EnviroQuest, Inc.  
98-029 Hekaha Street, Suite 21  
Aiea HI 96701

**Phone Number:** (808)486-5881  
**Facsimile:** (808) 486-5889  
**Email:** eqi@enviroquestinc.com

**Lab Job No:** 202403121  
**Date Submitted:** 3/20/2024  
**Your Project:** 303564, Kalanimoku - #220, 3/19/24

## Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202422525	220-01A		NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> <u>Beige mastic</u>						
	Comments						
202422525	220-01A		NONE DETECTED		None detected	Vinyl	3/22/2024
	<u>Layer</u> <u>Tan cove base</u>						
	Comments						
202422525	220-01A		NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> <u>Tan mastic</u>						
	Comments						
202422525	220-01A		NONE DETECTED		Fibrous glass (amorphous) + cellulose (undulose)	15 Gypsum	3/22/2024
	<u>Layer</u> <u>White drywall</u>						
	Comments						
202422525	220-01A		NONE DETECTED		None detected	Calcite	3/22/2024
	<u>Layer</u> <u>White joint compound</u>						
	Comments						
202422525	220-01A		NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> <u>Yellow mastic</u>						
	Comments						

Hawaii Analytical Laboratory is a NIST NVLAP accredited laboratory (NVLAP Lab Code 200655-0) and is accredited in accordance with the recognized ISO/ IEC 17025:2017. Controlled doc.: Asbestos Report, rev. 4 – 20240311

EnviroQuest, Inc.  
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## Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202422526	220-02A	NONE DETECTED	NONE DETECTED		None detected	Vinyl	3/22/2024
	<u>Layer</u> <u>Tan cove base</u>						
	Comments						
202422526	220-02A	NONE DETECTED	NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> <u>Tan mastic</u>						
	Comments						
202422527	220-03A	NONE DETECTED	NONE DETECTED		None detected	Vinyl	3/22/2024
	<u>Layer</u> <u>Tan cove base</u>						
	Comments						
202422527	220-03A	NONE DETECTED	NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> <u>Tan mastic</u>						
	Comments						
202422527	220-03A	NONE DETECTED	NONE DETECTED		None detected	Calcite	3/22/2024
	<u>Layer</u> <u>White joint compound</u>						
	Comments						
202422528	220-04A	NONE DETECTED	NONE DETECTED		Fibrous glass (amorphous) + cellulose (undulose)	15 Gypsum	3/22/2024
	<u>Layer</u> <u>White drywall</u>						
	Comments						
202422528	220-04A	NONE DETECTED	NONE DETECTED		None detected	Calcite + paint	3/22/2024
	<u>Layer</u> <u>White joint compound / white paint</u>						
	Comments						
202422529	220-05A	NONE DETECTED	NONE DETECTED		Fibrous glass (amorphous) + cellulose (undulose)	15 Gypsum	3/22/2024
	<u>Layer</u> <u>White drywall</u>						
	Comments						

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## Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202422529	220-05A		NONE DETECTED		None detected	Calcite + paint	3/22/2024
	<u>Layer</u> <u>White joint compound / white paint</u>						
	Comments						
202422530	220-06A		NONE DETECTED		Fibrous glass (amorphous) + cellulose (undulose)	15 Gypsum	3/22/2024
	<u>Layer</u> <u>White drywall</u>						
	Comments						
202422530	220-06A		NONE DETECTED		None detected	Calcite + paint	3/22/2024
	<u>Layer</u> <u>White joint compound / beige paint</u>						
	Comments						
202422531	220-07A	Yes	Chrysotile	6	None detected	Tar	3/22/2024
	<u>Layer</u> <u>Black mastic</u>						
	Comments						
202422531	220-07A	Yes	Chrysotile	2	None detected	Vinyl	3/22/2024
	<u>Layer</u> <u>Tan vinyl floor tile</u>						
	Comments						
202422531	220-07A		NONE DETECTED		None detected	Calcite	3/22/2024
	<u>Layer</u> <u>White/gray leveling material</u>						
	Comments						
202422531	220-07A		NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> <u>Yellow mastic</u>						
	Comments						
202422532	220-08A	Yes	Chrysotile	6	None detected	Tar	3/22/2024
	<u>Layer</u> <u>Black mastic</u>						
	Comments						
202422532	220-08A		NONE DETECTED		None detected	Calcite + quartz	3/22/2024
	<u>Layer</u> <u>Gray cementitious material</u>						
	Comments						

**Hawaii Analytical Laboratory is a NIST NVLAP accredited laboratory (NVLAP Lab Code 200655-0) and is accredited in accordance with the recognized ISO/ IEC 17025:2017. Controlled doc.: Asbestos Report, rev. 4 – 20240311**

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### Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202422532	220-08A <u>Tan vinyl floor tile</u>	Yes	Chrysotile	2	None detected	Vinyl	3/22/2024
	<u>Layer</u> Comments						
202422533	220-09A <u>Black mastic</u>	Yes	Chrysotile	6	None detected	Tar	3/22/2024
	<u>Layer</u> Comments						
202422533	220-09A <u>Gray cementitious material</u>		NONE DETECTED		None detected	Calcite + quartz	3/22/2024
	<u>Layer</u> Comments						
202422533	220-09A <u>Tan vinyl floor tile</u>	Yes	Chrysotile	2	None detected	Vinyl	3/22/2024
	<u>Layer</u> Comments						
202422533	220-09A <u>Yellow mastic</u>		NONE DETECTED		None detected	Binder	3/22/2024
	<u>Layer</u> Comments						

Hawaii Analytical Laboratory is a NIST NVLAP accredited laboratory (NVLAP Lab Code 200655-0) and is accredited in accordance with the recognized ISO/ IEC 17025:2017. Controlled doc.: Asbestos Report, rev. 4 – 20240311

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#### General Comments

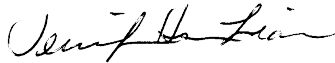
The bulk sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures outlined in the United States Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020, Dec. 1982) and / or "Method for Determination of Asbestos in bulk Building Materials" (EPA-600/R-93-116, July 1993). The analysis of each bulk sample relates only to the material examined, and may or may not represent the overall composition of its original source. Floor tile and other resinously bound materials, when analyzed by the EPA methods referenced above may yield false negative results because of limitations in separating closely bound fibers and in detecting fibers of small length and diameter. Gravimetric treatment, which HAL does not offer, may also be appropriate for certain NOB (non-friable organically bound) materials. Unless specifically requested by clients, NOB samples can be subcontracted to a NVLAP accredited lab, or else, they will be analyzed by HAL using regular PLM technique. In addition, alternative methods of identification, including Transmission Electron Microscopy (TEM) may or may not be applicable. We utilize calibrated visual area estimation on a routine basis and do not conduct point counting unless specifically requested to do so. Estimated error for the visual determinations presented are 75% relative (1 to 2%), 50% relative (3 to 5%); 25% relative (6 to 25%) and 20% (>26% v/v). We will not separate layers which in our opinion are not readily discernable. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST or any agency of Federal Government. Unless otherwise indicated, the sample condition at the time of receipt was acceptable.

#### Results and Symbols Definitions

> This testing result is greater than the numerical value listed.

< This testing result is less than the numerical value listed.

None Detected = asbestos was not observed in the sample. If trace amount of asbestos was detected below our quantifiable limits of 1.0%, <1% (trace) would be indicated and the asbestos type listed. Point counting, where applicable, are recommended to improve accuracy.



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**Jennifer Hsu Liao**  
**Laboratory Manager**

**Hawaii Analytical Laboratory is a NIST NVLAP accredited laboratory (NVLAP Lab Code 200655-0) and is accredited in accordance with the recognized ISO/ IEC 17025:2017. Controlled doc.: Asbestos Report, rev. 4 – 20240311**



EnviroQuest

202403121

PLM DATA SHEET

Project No.: 303564 Project Name: Kalanimo'oku - #1220

Date: 3/19/19

Page: of

Material Description: <i>tan cov base/mastic</i>		Friable Non-friable
Sample No.	Location	
220-01A	#1220, wall base	202422525
02A	" " "	202422526
03A	" " "	202422527
<b>CONDITION:</b> % Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____		
<b>Surfacing Material</b>		<b>TSI</b>
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling - _____	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating - _____	<input type="checkbox"/> % Gouge/Punct - _____
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____	<input type="checkbox"/> Damaged
		<input type="checkbox"/> % Crushed - _____
		<input type="checkbox"/> Good Cond.
		<input type="checkbox"/> % H <sub>2</sub> O Stains - _____
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Low
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate
		<input type="checkbox"/> Low
<b>OVERALL POTENTIAL RATING</b>	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage
		<input type="checkbox"/> Minimal Damage

Material Description: <i>dry wall</i>		Friable Non-friable
Sample No.	Location	
220-04A	#1220, Partition walls	202422528
05A	" " "	202422529
06A	" " "	202422530
<b>CONDITION:</b> % Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____		
<b>Surfacing Material</b>		<b>TSI</b>
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling - _____	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating - _____	<input type="checkbox"/> % Gouge/Punct - _____
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____	<input type="checkbox"/> Damaged
		<input type="checkbox"/> % Crushed - _____
		<input type="checkbox"/> Good Cond.
		<input type="checkbox"/> % H <sub>2</sub> O Stains - _____
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Low
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate
		<input type="checkbox"/> Low
<b>OVERALL POTENTIAL RATING</b>	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage
		<input type="checkbox"/> Minimal Damage

Sampled By: <i>J. Sacramento</i>	Relinquished By/Date/Time: <i>J. Shutt 3/20/24</i>	Relinquished By/Date/Time:
DOH Cert No:	Received By/Date/Time: <i>Thinidad Shutt</i>	Received By/Date/Time: <i>03-20-24 10:13 RCVD</i>

Samples picked up at EQI office by Hawaii Analytical Laboratory

**TURNAROUND TIME:**  < 12 Hours  24 Hours  3 Days  5 Days  \_\_\_\_\_

Surfacing	<1,000 ft <sup>2</sup> = 3 Samples	1,000 - 5,000 ft <sup>2</sup> = 5 Samples	>5,000 ft <sup>2</sup> = 7 Samples
TSI	Minimum of 3 Samples (Run) UNLESS	<6 in. or ft <sup>2</sup> = 1 Sample	Minimum of 3 Samples (Elbow & 'T')
Misc.	Minimum of 3 Samples (Hawaii)		
Surfacing	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage
TSI	Sig. Damage = 10% Missing Jacket OR > 10% Dist. or 25% Local	Damaged = < 10% Missing Jacket OR < 10% Dist. or 25% Local	Good = Very Limited Damage
Misc.	Sig. Damage = > 10% Dist. or 25% Local	Damaged = < 10% Dist. or 25% Local	Good = Very Limited Damage





EnviroQuest

202403121

PLM DATA SHEET

Project No.: 11 Project Name: 11 Date: 11

Page: 2 of 2

Material Description:		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
220-07A	#1220, floor	2024	22531
08A	'' '' (under carpet)	2024	22532
09A	'' ''	2024	22533

CONDITION: % Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____	
<b>Surfacing Material</b> <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	<b>TSI</b> <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.
<input type="checkbox"/> % Crumbling - _____ <input type="checkbox"/> % Delaminating - _____ <input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____	<input type="checkbox"/> % Gouge/Punct - _____ <input type="checkbox"/> % Crushed - _____ <input type="checkbox"/> % H <sub>2</sub> O Stains - _____
<input type="checkbox"/> Contact Potential _____ <input type="checkbox"/> Vibration Potential _____ <input type="checkbox"/> Air Erosion _____	<input type="checkbox"/> % Crumbling - _____ <input type="checkbox"/> % Delaminating - _____ <input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____
<input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low	<input type="checkbox"/> Significant Damage <input type="checkbox"/> Damage <input type="checkbox"/> Minimal Damage

Material Description:		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type

CONDITION: % Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____	
<b>Surfacing Material</b> <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	<b>TSI</b> <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.
<input type="checkbox"/> % Crumbling - _____ <input type="checkbox"/> % Delaminating - _____ <input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____	<input type="checkbox"/> % Gouge/Punct - _____ <input type="checkbox"/> % Crushed - _____ <input type="checkbox"/> % H <sub>2</sub> O Stains - _____
<input type="checkbox"/> Contact Potential _____ <input type="checkbox"/> Vibration Potential _____ <input type="checkbox"/> Air Erosion _____	<input type="checkbox"/> % Crumbling - _____ <input type="checkbox"/> % Delaminating - _____ <input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____
<input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low	<input type="checkbox"/> Significant Damage <input type="checkbox"/> Damage <input type="checkbox"/> Minimal Damage

Material Description:		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type

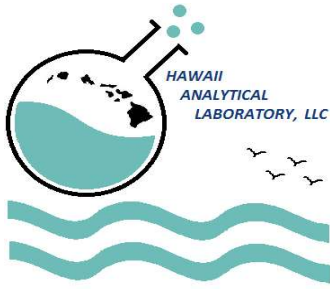
CONDITION: % Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____	
<b>Surfacing Material</b> <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	<b>TSI</b> <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.
<input type="checkbox"/> % Crumbling - _____ <input type="checkbox"/> % Delaminating - _____ <input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____	<input type="checkbox"/> % Gouge/Punct - _____ <input type="checkbox"/> % Crushed - _____ <input type="checkbox"/> % H <sub>2</sub> O Stains - _____
<input type="checkbox"/> Contact Potential _____ <input type="checkbox"/> Vibration Potential _____ <input type="checkbox"/> Air Erosion _____	<input type="checkbox"/> % Crumbling - _____ <input type="checkbox"/> % Delaminating - _____ <input type="checkbox"/> % H <sub>2</sub> O/Gouges - _____
<input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low	<input type="checkbox"/> Significant Damage <input type="checkbox"/> Damage <input type="checkbox"/> Minimal Damage



# APPENDIX C

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LEAD  
LABORATORY ANALYTICAL REPORT



# Hawaii Analytical Laboratory ANALYTICAL REPORT

Friday, March 22, 2024

EnviroQuest, Inc.  
98-029 Hekaha Street, Suite 21  
Aiea HI 96701

**Phone Number:** (808)486-5881  
**Facsimile:** (808) 486-5889  
**Email:** eqi@enviroquestinc.com

**Lab Job No:** 202403122  
**Date Submitted:** 3/20/2024  
**Your Project:** 303564, Kalanimoku - #220, 3/19/24

## Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202422534	220-01P	< 0.004	wt %	3/20/2024
Comments				
202422535	220-02P	< 0.004	wt %	3/20/2024
Comments				
202422536	220-03P	< 0.004	wt %	3/20/2024
Comments				

Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on [www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org), in accordance with the recognized ISO/ IEC 17025:2005. AIHA is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 – 20181015

EnviroQuest, Inc.  
98-029 Hekaha Street, Suite 21  
Aiea HI 96701

**Phone Number:** (808)486-5881  
**Facsimile:** (808) 486-5889  
**Email:** eqi@enviroquestinc.com

**Lab Job No:** 202403122  
**Date Submitted:** 3/20/2024  
**Your Project:** 303564, Kalanimoku - #220, 3/19/24

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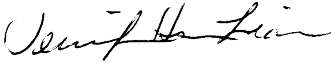
**All Quality Control data are acceptable unless otherwise noted.**  
**MRL for lead air is 5ug.**  
**MRL for lead wipe is 10ug.**  
**MRL for lead paint or soil is 40 mg/kg for a 0.25g sample.**

**General Comments**

The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document proficiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

**Results and Symbols Definitions**

> This testing result is greater than the numerical value listed.  
< This testing result is less than the numerical value listed.  
# = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.  
MRL = Method Reporting Limit.



---

**Jennifer Hsu Liao**  
**Laboratory Manager**

**Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on [www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org), in accordance with the recognized ISO/ IEC 17025:2005. AIHA is a NLLAP recognized accrediting body. Controlled doc.: Lead Report, rev. 3 – 20181015**



EnviroQuest

202403122

MISCELLANEOUS BULK DATA SHEET

Project Name: Kalani maku - #220

Page: 1

Location: \_\_\_\_\_

Date: 3/19/24

Project No.: 303564

Turnaround Time:  <12 Hrs  24 Hrs  48 Hrs  3 Days  5 Days  Other: \_\_\_\_\_

Analysis:

- TCLP Lead
- TCLP RCRA 8
- Total Lead
- Micro ID (spore)

Sampling Media:

- Bulk
- Soil
- Swab
- Tape
- Vacuum
- Water
- Wipe

Sample #	Building	Int/Ext	Flr.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	220-01P									202422534
		#220, white drywall								
2	02P									202422535
		" white/beige metal d E								
3	03P									202422536
		rr white conc column								
4										
5										
6										
7										

Sampled By: J.S. ...

Relinquished By/Date/Time: [Signature] 3/20/24

Relinquished By/Date/Time: \_\_\_\_\_

Analyzed By: \_\_\_\_\_

Delivered to Lab By: \_\_\_\_\_

Received By/Date/Time: [Signature] 3/20/24

Received By/Date/Time: 3/20/2024 10:14am RCVP

Date Analyzed: \_\_\_\_\_

Samples picked up at EQI office by Hawaii Analytical Laboratory

FAX: 808.486.5889  E-mail: eqi@enviroquestinc.com

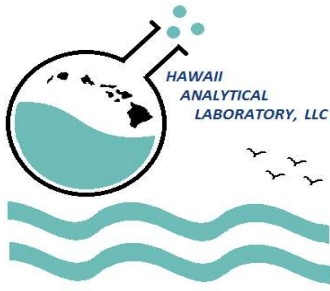


EnviroQuest

# APPENDIX D

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POLYCHLORINATED BIPHENYLS



# Hawaii Analytical Laboratory ANALYTICAL REPORT

Monday, May 20, 2024

EnviroQuest, Inc.  
98-029 Hekaha Street, Suite 21  
Aiea HI 96701

**Phone Number:** (808)486-5881  
**Facsimile:** (808) 486-5889  
**Email:** eqi@enviroquestinc.com

**Lab Job No:** 202405196  
**Date Submitted:** 5/16/2024  
**Project Name:** 303564, Room 220 Kalanimoku Building, 5/15/24

## PCBs in Bulk (7 Aroclor) #

EPA Method: 3550Cm/3665Am/8082A -m [Gas Chromatography - ECD]

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202435856	220-01PCB			5/20/2024
Comments:	Aroclor 1016	< 1.2 mg/kg		
	Aroclor 1221	< 1.2 mg/kg		
	Aroclor 1232	< 1.2 mg/kg		
	Aroclor 1242	2.1 mg/kg		
	Aroclor 1248	< 1.2 mg/kg		
	Aroclor 1254	< 1.2 mg/kg		
	Aroclor 1260	< 1.2 mg/kg		
Results are on a dry weight basis.				
202435857	220-02PCB			5/17/2024
Comments:	Aroclor 1016	< 0.72 mg/kg		
	Aroclor 1221	< 0.72 mg/kg		
	Aroclor 1232	< 0.72 mg/kg		
	Aroclor 1242	< 0.72 mg/kg		
	Aroclor 1248	< 0.72 mg/kg		
	Aroclor 1254	< 0.72 mg/kg		
	Aroclor 1260	< 0.72 mg/kg		
Results are on a dry weight basis.				

**All Quality Control data are acceptable unless otherwise noted.**

**Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on [www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org), in accordance with the recognized ISO/ IEC 17025:2005. AIHA is a NLLAP recognized accrediting body. Controlled doc.: Analytical Report, rev. 3 – 20181015**

EnviroQuest, Inc.  
98-029 Hekaha Street, Suite 21  
Aiea HI 96701

**Phone Number:** (808)486-5881  
**Facsimile:** (808) 486-5889  
**Email:** eqi@enviroquestinc.com

**Lab Job No:** 202405196  
**Date Submitted:** 5/16/2024  
**Project Name:** 303564, Room 220 Kalanimoku Building, 5/15/24

---

General Comments

The sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures associated with the "analytical method" referenced above. Modifications to this methodology may have been made based upon the analyst's professional judgment and / or sample matrix effects encountered. The analysis of sample relates only to the sample analyzed, and may or may not be representative of the original source of the material submitted for our analysis. All analysts participate in interlaboratory quality control testing to continuously document proficiency. This report is not to be duplicated except in full without the expressed written permission of Hawaii Analytical Laboratory. This report should not be construed as an endorsement for a product or a service by the AIHA LAP, LLC or any affiliated organizations. Sample and associated sampling / collection data is reported as provided by client. TWA values have been calculated based on information supplied by the client that the laboratory has not independently verified. Results have not been corrected for blank determinations unless noted in remarks. Unless otherwise indicated the sample condition at the time of receipt was acceptable.

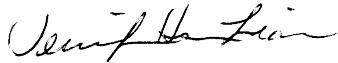
Results and Symbols Definitions

> This testing result is greater than the numerical value listed.

< This testing result is less than the numerical value listed.

# = Analytical methods marked with an "#" are not within our AIHA LAP, LLC Scope of Accreditation.

MRL = Method Reporting Limit.



---

**Jennifer Hsu Liao**  
**Laboratory Manager**

**Hawaii Analytical Laboratory (101812) is accredited by the AIHA LAP, LLC in the EMLAP, IHLAP, and ELLAP programs for the scope of work listed on [www.aihaaccreditedlabs.org](http://www.aihaaccreditedlabs.org), in accordance with the recognized ISO/ IEC 17025:2005. AIHA is a NLLAP recognized accrediting body. Controlled doc.: Analytical Report, rev. 3 – 20181015**





EnviroQuest

202405196

MISCELLANEOUS BULK DATA SHEET

Project Name: Room 220 - Kalaninokū Building

Location: \_\_\_\_\_

Page: 1  
Date: 5/15/24

Project No.: 303654 303564

Turnaround Time:  <12 Hrs  24 Hrs  48 Hrs  3 Days  5 Days  Other: \_\_\_\_\_

Analysis:

- TCLP Lead
- TCLP RCRA 8
- Total Lead

- Micro ID (spore)
- total PCBs

Sampling Media:

- Bulk  Tape  Wipe
- Soil  Vacuum
- Swab  Water

Sample #	Building	Int/Ext	Fir.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	220-01	PCB			black floor mastic					202435856
2	02	PCB			brown wall base mastic					202435857
3										
4										
5										
6										
7										

Sampled By: J Sacramento  
 Delivered to Lab By: \_\_\_\_\_

Relinquished By/Date/Time: [Signature] 5/16/24  
 Received By/Date/Time: \_\_\_\_\_

Relinquished By/Date/Time: Savannah Newman  
[Signature]  
 Received By/Date/Time: 05-16-24 10:09 RCVD

Analyzed By: \_\_\_\_\_  
 Date Analyzed: \_\_\_\_\_

Samples picked up at EQI office  
 by Hawaii Analytical Laboratory  
 SEND ALL CORRESPONDENCE TO: \_\_\_\_\_

FAX: 808.486.5889  E-mail: eqi@enviroquestinc.com

DIVISION 13 - SPECIAL CONSTRUCTION

SECTION 13281

ASBESTOS ABATEMENT

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

As specified in Section 01019 - GENERAL SPECIFICATIONS, Special Provisions, and the General Conditions of the Contract.

1.2 SUMMARY

A. Furnish all labor, materials, equipment, and services, necessary to carry out the safe removal and disposal of asbestos containing material in compliance with these specifications, EPA, OSHA, State of Hawaii regulations, and any other applicable Federal and State regulations. Whenever there is a conflict or overlap of the above references, the most stringent shall apply. The asbestos work at Room 220 in Kalanimoku Building shall generally include:

1. Removal and disposal of tan floor tiles and/or black mastic (under carpet) located in room 220 as identified in the Hazardous Material Inspection Report and/or Project Drawings. The black mastic shall be completely removed from the concrete floor substrate.
2. Work is to be completed when the room is vacant.
3. Contractor to coordinate all work with the Contractor hired Qualified Consultant. Contractor is responsible to satisfy himself as to the total extent of all work, including to but not limited to the quantity, location, thickness, layers, accessibility, etc. of all material prior to commencement of any work.

B. In general, the principal items of the asbestos removal work shall be as follows:

1. Worker Protection.
2. Decontamination Enclosure System.
3. Preparation of Work Area.
4. Removal of asbestos containing materials.

Job No. E00BO99A  
DLNR Land Division Office Improvements  
Kalanimoku Building, Room 220  
Honolulu, Oahu, Hawaii

Asbestos Abatement  
13281 - 1

Addendum No. 3  
Job No. E00BO99A

5. Removal of protective sheeting.
6. Disposal.
7. Cleaning shall include areas within and immediately around the work area affected by the abatement work and all areas contaminated by the Contractor's work.
8. The asbestos abatement work shall include removal of all asbestos containing materials within the work area as specified herein and noted on the drawing.
9. Contractor shall comply with all regulations pertaining to asbestos removal. If there is a conflict with the specifications, the more stringent requirement shall apply.

### 1.3 COORDINATION WITH OTHER SECTIONS

Prior to commencement of work, an annotated description of all existing damaged and missing items shall be submitted to the State. It will be the Contractor's responsibility to repair and/or replace to the State's satisfaction all items identified as damaged and/or missing that cannot be proven to have been in this condition prior to the commencement of this project.

### 1.4 SUBMITTALS PRIOR TO WORK

- A. Payment: Final payment will not be made until copies of all submittals have been furnished to and accepted by the State. Submit one electronic copy of the submittal package, no later than 10 consecutive working days from award notice, which will include the items listed below.
- B. Notices: As early as possible but prior to commencement of work, as regulated by each agency and before commencement of any on-site project activity, send a courtesy 10-day notice in accordance with 40 CFR Part 61.145 of Subpart M, of the proposed asbestos abatement work with copies to the State and to the following agencies:
  1. The Administrator of the Environmental Protection Agency (EPA) Regional Office having jurisdiction over the project.
  2. State of Hawaii, Department of Health, "Notification of Demolition and Renovation" form. Send to: State of Department of Health, Indoor and Radiological Health Branch, 99-945 Halawa Valley Street, Aiea, Hawaii 96701.
- C. Permits and Licenses: Copies of all permits, licenses (C-19) and arrangements for removal, transportation and disposal of asbestos containing materials and waste water.

Job No. E00BO99A  
DLNR Land Division Office Improvements  
Kalanimoku Building, Room 220  
Honolulu, Oahu, Hawaii

Asbestos Abatement  
13281 - 2

Addendum No. 3  
Job No. E00BO99A

- D. Insurance: Proof of insurance for Workman's Compensation and General Liability which covers asbestos, lead, and pollution.
- E. Manufacturer's Data: Copies of manufacturer's specifications, installation instructions and field test procedures for each material and all equipment related to asbestos handling and abatement and include other data as may be required to show compliance with these specifications and proposed uses.
- F. Samples: Samples of the following items for approval prior to ordering materials:
  - 1. Surfactant: Copies of manufacturer's literature including all laboratory data, mixing and application instructions.
  - 2. Tapes and Adhesives: Copies of manufacturer's literature including all laboratory data.
  - 3. Warning Labels and Signs: Copies of examples of all required signage.
  - 4. Protective Clothing: Copies of manufacturer's literature on all protective clothing and one sample of each item which will be returned to the Contractor.
  - 5. Respirator Equipment: Copies of manufacturer's literature on all respirator equipment and one sample of each item which will be returned to the Contractor.
  - 6. Asbestos Encapsulant(s): Copies of manufacturer's literature including all laboratory data, application instructions.
- G. Work Plan: Submit a project Work Plan for the asbestos containing material disturbance work written and signed by the Contractor's State of Hawaii, Department of Health certified Asbestos Project Designer. The Contractor shall also provide detailed information concerning:
  - 1. Preparation of the work area.
  - 2. Personal protective equipment including respiratory protection, protective clothing and fall protection.
  - 3. Decontamination procedures for the personnel who may be exposed to asbestos.
  - 4. Handling and disposal methods and procedures to be used.
  - 5. Required air monitoring procedures and sampling protocols.
  - 6. Procedures for final cleanup.

7. A sequence of work and performance schedule in coordination with other trades.
  8. Emergency procedures.
- H. Shop Drawings: Submit shop drawings for the following items as a minimum:
1. Descriptions of any equipment to be employed not discussed in this section.
  2. Security provisions, if any, in and around the project area.
  3. Outline of work procedures to be employed.
  4. Location of construction barriers.
  5. Location of waste dumpster.
  6. Staging of the work, the sequence.
  7. Entrances and exits to the work place.
  8. Location and construction of worker decontamination units.
- I. Documentation for Instruction: Submit documentation that each and every individual, including foremen, supervisors, and other company personnel or agents and any other individual who may be exposed to airborne asbestos fibers, who may be responsible for any aspect of abatement activities, or who is allowed or permitted to enter areas where such exposure may occur has currently attended and passed the Abatement Worker and/or Abatement Contractor/Supervisor course whichever is relevant to that workers responsibilities as specified in 40 CFR Part 763, "Asbestos Materials in Schools". These courses shall be EPA approved or approved by a State Accreditation Program in the most current listing of the Federal Register. No worker shall be allowed on site if they are found to have either an expired accreditation certificate or States not comply with the requirements set forth in 40 CFR Part 763 on training. All workers shall be certified for asbestos related work in accordance with Department of Health, Chapter 11-504, Hawaii Administrative Rules, *Asbestos Abatement Certification Program*. The Contractor shall be responsible for keeping the documentation up to date and subsequent submittals to the State before any additional employee or individual, not currently on the list, is allowed within the project site. Submit completed and signed "Employee Acknowledgment of Instruction and Release" forms. A sample "Employee Acknowledgment of Instruction and Release" form is provided at the end of this section. In addition to asbestos training documentation, the Contractor shall also submit documentation that workers have appropriate OSHA PCBs training.
- J. Documentation from Physician: Submit documentation from a physician that all employees or agents who may be exposed to airborne asbestos have been provided with an opportunity

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to be medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. In addition, document that all individuals permitted within the project site have received medical monitoring or had such monitoring made available to them as required in OSHA 29 CFR 1926.1101. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities. The Contractor shall keep and make available to all affected individuals a record and the results of such examinations.

- K. HEPA Vacuums: Submit manufacturer's certification that vacuums conform to ANSI Z9.2-79, Fundamentals Governing the Design and Operation of Local Exhaust Systems as applicable to this project.
- L. Rental Equipment: When rental equipment is to be used in abatement areas or to transport asbestos contaminated waste, a written notification concerning intended use of the rental equipment must be provided to the rental agency with a copy submitted to the State.
- M. Emergency Planning Procedures: Contractor shall submit for review and acceptance by the State, an emergency plan prior to abatement initiation.
  - 1. Emergency procedures shall be in written form and prominently posted adjacent to the Worker Protection Notices specified hereinafter. Everyone prior to entering the work area must read and sign these procedures to acknowledge receipt of emergency exits and emergency procedures.
  - 2. Emergency planning shall include notification of police, fire, and emergency medical personnel of planned abatement activities work schedule, and layout of the work area, particularly barriers that may affect response capabilities.
  - 3. Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, and heat related injury. Written procedures shall be developed and employee training procedures shall be provided in Contractor's plan.

#### 1.5 SUBMITTAL AFTER WORK IS COMPLETED

- A. Report: At the completion of the work, a final report shall be prepared by the Contractor for acceptance by the State. One electronic copy of the report shall be submitted and shall include the items listed below.
  - 1. The project name, Abatement Contractor, Abatement Contractor license number, notification form to the Hawaii Department of Health and EPA, work duration, material removed, respiratory protection employed, asbestos waste manifest, total quantity of

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waste, employee exposure air sample results, and results of the most current PAT round results for the laboratory or laboratories conducting the employee exposure air sample analysis.

2. Certification of the Abatement Contractor's employees.
3. Visitor/Worker Entry Log: The daily log of all personnel including the Contractor's employees and agents who enter the work area while asbestos abatement operations are in progress, until final clearance is received that the work area is asbestos free. The log shall contain the listed information as a minimum and shall be certified by the Qualified Consultant.
  - a. Date of visit/worker entry.
  - b. Visitor/Worker's name, employer, business address and telephone number.
  - c. Time of entry and exit from work area.
  - d. Purpose of visit.
  - e. Type of protective clothing and respirator worn.
  - f. Certificate of release signed and filed with the Contractor.
4. Certification Statement: A statement signed by the Asbestos Abatement Contractor that all asbestos abatement and disposal was completed in compliance with this specification, Federal and State regulations, and the approved Work Plan.

#### 1.6 PRODUCT HANDLING

Delivery and Storage of Materials: Deliver materials to the site in original packages, containers or bags fully identified with manufacturer's name, brand and lot number. Store materials in a dry well-ventilated space, under cover, off the ground and away from surfaces subject to dampness or condensation as approved by the State. Material that becomes contaminated with asbestos shall be disposed of in accordance with applicable regulations. Replacement materials shall be stored outside the contaminated work area until abatement is completed.

#### 1.7 PROTECTION

- A. Site Security: The work area is to be restricted only to authorized, trained, and protected personnel. These may include the Contractor's employees, employee's of subcontractors, the State and its representatives, State and local inspectors and any other designated individuals. A list of authorized personnel shall be established prior to job start.

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1. Entry to the work area by unauthorized individuals shall not be permitted without the express approval of the State and any such entry shall be reported immediately to the State by the Contractor.
  2. A Visitor/Worker Entry Log shall be maintained.
  3. The Contractor shall have control, subject to approval of the State, of security in the work area and in proximity of Contractor's equipment and materials.
- B. Site Protection and Safety: As a minimum follow the requirements of EPA, HIOSH (State of Hawaii), OSHA and NIOSH. Take all necessary precaution to ensure there is no asbestos contamination to those areas not included in the work schedule.
- C. Protective Covering: The Contractor shall provide and install protective covering on an "as required" or "upon request" by the Qualified Consultant. Protective covering shall be clean plastic sheets minimum thickness of 6-mil.
- D. Safeguarding of Property: The Contractor shall take whatever steps necessary to safeguard his work and also the property of the State and other individuals in the vicinity of his work area during the execution of this Contract. He shall be responsible for and make good on any and all damages by his employees negligence. Do not load structure with weight that will endanger the structure.
- E. Completed Work: The Contractor shall provide all necessary protection for surfaces encapsulated under this section.

#### 1.8 ABBREVIATIONS

- A. ANSI: American National Standards Institute, Inc.
- B. CFR: Code of Federal Regulations.
- C. HIOSH: Division of Occupational Safety and Health, Department of Labor and Industrial Relations, State of Hawaii.
- D. EPA: U.S. Environmental Protection Agency.
- E. NESHAP: National Emission Standards for Hazardous Air pollutants.
- F. NIOSH: National Institute for Occupation Safety and Health.
- G. OSHA: Occupational Safety and Health Administration.

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## 1.9 GENERAL REQUIREMENTS

- A. Contractor shall examine and have at all times in his possession at his office (one copy) and in view at each job site office (one copy) a current issue of the following publications:
1. State of Hawaii, Department of Health, Title 11, Chapter 501-1, Asbestos Requirements.
  2. State of Hawaii, Department of Health, Title 11, Chapter 501-2, Asbestos Containing Materials in Schools.
  3. State of Hawaii, Department of Health, Title 11, Chapter 501-4, Asbestos Abatement Certification Program.
  4. Title 29, Code of Federal Regulations, Section 1910.134 - General Industry Standard for Respiratory Protection, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
  5. Title 29, Code of Federal Regulations, Section 1926.1101 - Asbestos, Construction Industry, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
  6. Title 29, Code of Federal Regulations, Section 1910.2 - Access to Employee Exposure and Medical Records, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
  7. Title 29, Code of Federal Regulations, Section 1910.1200 - Hazard Communication, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
  8. Title 40, Code of Federal Regulations, Part 61, Subparts A and M (Revised Subpart B), National Emission of Standards for Hazardous Air Pollutants, U.S. Environmental Protection Agency (EPA).
  9. Guidance for Controlling Asbestos Containing Materials in Buildings, EPA 560/5-85-024 (Purple Book), U.S. Environmental Protection Agency (EPA).
  10. Title 34, Code of Federal Regulations, Part 231, Appendix C, Procedures For Containing and Removing Building Materials Containing Asbestos, U.S. Environmental Protection Agency (EPA).
  11. Title 29, Code of Federal Regulations, Section 1910.145 Specifications for Accident Prevention, Signs and Tags, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor.
  12. ANSI Z88.2-80 Practice for Respiratory Protection.

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13. EPA, Final Response to the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR, Part 763, Subpart E.
- B. The Contractor shall comply with the above requirements and any applicable State and City and County of Honolulu regulations. Where conflict or any inconsistency among requirements or with this specification exists, the more stringent requirements shall apply. Ignorance of the above requirements and any applicable State and City and County of Honolulu regulations resulting in additional cost to the Contractor shall be solely the Contractor's responsibility.
- C. All regulations shall govern over these specifications, except that any more stringent specification or specification providing greater protection against asbestos exposure, injury, loss or liability, shall control to the extent permitted by regulation. Any question regarding conflict or inconsistency between specification and/or regulations should be directed to the State.
- D. Whenever approval of the State is required prior to proceeding with other work, the following shall be complied with:
  1. The Contractor shall allow the State 72 hours from notification to respond to the request for inspection.
  2. The Contractor shall designate one person (either a foreman or superintendent) who will be authorized to request for inspections. The name of the designated person shall be submitted in writing to the State prior to commencing with the work. Request from any other person will not be considered an official request.

#### 1.10 DEFINITIONS

- A. Abatement: Procedure to control fiber release from asbestos containing building materials.
  1. Removal: All herein specified procedures necessary to remove asbestos containing materials at an approved site in an acceptable manner.
  2. Post-Removal Surface Encapsulation: Procedures necessary to coat surfaces from which asbestos containing materials have been removed and where designated on the drawings to control any residual fiber release.
- B. Air Monitoring: The process of measuring the fiber content of a specific, known, volume of air in a stated period of time.

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- C. Amended Water: Water to which a surfactant has been added to reduce water surface tension and thereby provide a more rapid penetration.
- D. Authorized Visitor: The State, the General Contractor hired Qualified Consultant, his representatives, air monitoring personnel, or a representative of any regulatory or other agency having jurisdiction over the project.
- E. Holding Area: A secure area used for the storage of double-bagged asbestos containing material before removal from the project site to an approved disposal site.
- F. Fixed Object: A unit of equipment or furniture in the work area which cannot be removed from the work area without dismantling.
- G. Friable Asbestos: Asbestos containing material which can be crumbled to dust, when dry, under hand pressure.
- H. HEPA Filter: A High Efficiency Particulate Absolute filter capable of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 micron in length.
- I. HEPA Vacuum Equipment: Vacuuming equipment that utilizes a High Efficiency Particulate Absolute (HEPA) filter.
- J. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
- K. Post-Removal Encapsulation: A liquid material which can be applied to surfaces from which asbestos containing material has been removed to control the possible release of residual fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating in to the material and binding its components (penetrating encapsulant). Selected product shall be compatible with the existing finishes including wood, metal, and plastic.
- L. Qualified Consultant: Consultant hired by the General Contractor who will perform air monitoring and inspection during abatement work and shall have the authority to initiate engineering controls. The Qualified Consultant will be accredited as a State of Hawaii Department of Health accredited Asbestos Project Monitor.

## PART 2 - PRODUCTS

### 2.1 MATERIALS

- A. Plastic Sheeting: Minimum thickness is 6-mil polyethylene film.
- B. Plastic Bags: Minimum thickness 6-mil polyethylene film labeled as specified hereinafter.

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- C. Tapes: Tape shall be capable of sealing joints of adjacent sheets of polyethylene and for attaching polyethylene sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including the use of amended water. Silver cloth duct tape, minimum 2-inches wide; red or NATO orange tape, minimum 2-inches wide for exit arrows; and double faced foam tapes, by Nashua, 3-M, Arno, or accepted equivalent.
- D. Adhesives: Adhesives (3-M #76, #77, or accepted equivalent) shall be capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.
- E. Warning Labels and Signs: As required by OSHA regulations 29 CFR 1926.1101. Permanent signage for access panels and areas with encapsulated asbestos containing materials shall be as specified hereinafter. Signage shall be as approved by the State.
- F. Protective Clothing: As specified hereinafter. The Contractor shall have all the required sets of coveralls required for this project on island prior to the start of work. There will be no time extension for the unavailability of coveralls or related equipment.
- G. Post-Removal Encapsulation: The encapsulant shall be applied to surfaces from which asbestos containing material has been removed to control the possible release of residual fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating in to the material and binding its components (penetrating encapsulant) and shall be compatible with the existing finishes including wood, metal, and plastic.
- H. Other Materials: Provide all other materials, such as, but not limited to lumber, plywood, nails, fasteners, metal studs, hardware, foam sealants, and caulking which may be required to properly prepare and complete this project.

## 2.2 TOOLS AND EQUIPMENT

- A. General: Provide and fabricate suitable tools for the asbestos abatement procedures.
- B. Water Sprayer: Airless or a pressure sprayer for amended water application as applicable.
- C. Air Purification Equipment: High Efficiency Particulate Absolute (HEPA) filtration systems.
- D. Paint/Encapsulant Sprayer: Airless type.
- E. Other tools and equipment as necessary.

## 2.3 PERSONNEL PROTECTION REQUIREMENTS

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- A. The Contractor acknowledges he alone is responsible for instruction and for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard.
- B. Provide workers with sufficient sets of disposable protective full body clothing consisting of material impenetrable by asbestos fibers and of the proper size for each individual to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloves and headgear. Provide hard hats as required by applicable safety regulations. Disposable clothing shall not be allowed to accumulate and shall be disposed of as asbestos contaminated waste. Protective clothing shall be worn by all personnel within the work area from the start of the removal and post-removal encapsulation work until the work area has received its final clearance.
- C. Insulated non-skid rubber boots or an accepted equivalent shall be required for all individuals entering the work area. Protective full body clothing without elastic at sleeves and legs shall require separate elastic or taped protection to seal the opening. Visitors shall be provided full body protective clothing.
- D. No visitors shall be allowed in work areas, except as authorized by the State. Visitors must supply their own respiratory protection and show proof training in accordance with DOH 11-501-504. Provide authorized visitors with suitable disposable protective full body clothing consisting of material impenetrable by asbestos fibers and of the proper size for each individual to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloves and headgear including hard hat when required and insulated rubber boots or equal. The Contractor shall include in his Bid the expense of a total of 4 changes of clothing per day for each day of asbestos abatement work for visitor's use. The quantity shall accumulate and may be used at any time during asbestos abatement work at the discretion of the State.
- E. All electrical systems used for asbestos abatement operations shall as a minimum be protected with "Ground Fault Circuit Interrupters" selected and installed in strict accordance with the manufacturer's instructions, the National Electric Code and all other pertinent codes.
- F. Additional safety equipment (e.g. hardhats meeting the requirements of ANSI Z-89.1-2009, eye protection meeting the requirements of ANSI Z87.1-2015, safety shoes meeting the requirements of ANSI Z41.1-1991, disposable PVC gloves), as necessary, shall be provided to all workers and authorized visitors.

### PART 3 - EXECUTION

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### 3.1 SEPARATION OF WORK AREAS FROM NON WORK AREAS

- A. Penetrations: Windows and doors and any other openings to the work area, shall be sealed with 2 layers of 6-mil poly sheeting and secured with duct tape.
- B. Emergency Exits: Designate and maintain emergency and fire exits from the work area in accordance with local codes and regulations. Provide knockout/cut away panels in the barriers in the direction of emergency egress. Properly mark the knockout/cut away panels, seal them airtight, and on a continuing basis instruct workers and authorized personnel as to their locations. Post a diagram in each Clean Room and Equipment Room locating the emergency exits. In case of fire while doing work in the work areas, emergency exit procedures have priority over normal work exiting procedures.
- C. Inspection: The Contractor shall inspect all barriers at least twice a day (once prior to the start of each day's abatement operations and following the day's abatement operations). Document the inspections and observations in a daily project log.
- D. Emergency Exits: Designate and maintain emergency and fire exits from the work area in accordance with local codes and regulations.

### 3.2 DECONTAMINATION ENCLOSURE SYSTEMS

- A. General: The Contractor shall construct the decontamination enclosure system or use portable units acceptable to the Qualified Consultant and as described in the approved Work Plan.
- B. Personnel Decontamination Area: At a minimum provide a personnel decontamination area consisting of a Dirty Area, Wipe Down Area, and Clean Area.
- C. Maintenance of Decontamination Area: At the beginning of each work shift and throughout abatement operations all areas shall be kept clean at all times.
  - 1. Personnel Decontamination Area:
    - a. The Contractor shall maintain Clean Area and shall repair and sanitize respirator equipment after each use.
    - b. Disposable sanitary hand wipes shall be available at all times.
    - c. Provide a disposal bag for contaminated filters in the Wipe Down area at all times.
- D. Worker Protection Notice: Post the following notice in each Clean Area:
  - 1. Workers and authorized personnel, in order to enter the work area, shall:

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- a. Remove all clothing, unless it is to remain in the Dirty Area for eventual disposal.
  - b. Don the appropriate respiratory protection, follow all training procedures and manufacturer's instructions.
  - c. Don protective clothing (full body coveralls, gloves, boots, headgear etc.) after donning respirator.
2. All workers and authorized personnel, in order to leave the work area, shall:
- a. Remove gross (visible) contamination from themselves and their equipment. Brush off dust with a fine bristle brush and leave the brush outside the Equipment Room in the work area.
  - b. Enter the Dirty Area and keeping your respirator in place, remove all protective clothing, including full body coveralls, gloves, boots, and headgear. Place contaminated clothing in the bag(s) provided. Store reusable gloves and boots in their respective areas in the Dirty Area.
  - c. Respirator still in place, move into the Wipe Down area and wipe off thoroughly.
  - d. Proceed to the Clean Area: Get dressed and return respirator to its proper place.
  - e. No smoking, eating, drinking shall be allowed inside the work area or the decontamination enclosures.

### 3.3 COMMUNICATIONS

Provide a communications system suitable to monitor all activities within the work area and to readily transfer messages from one location to another.

### 3.4 WORK AREA PREPARATION

#### A. Work by the Asbestos Abatement Contractor:

1. Step 1:
  - a. Posting of Danger Signs: Post danger signs in and around the work area to comply with 29 CFR 1926.1101 and all other Federal, State and local requirements. Signs shall be posted at a distance sufficiently far enough away from the work area to permit a person to read the sign and take the necessary protective measures to avoid exposure.

- b. Critical Seals (Barriers): Seal all windows, doors, and openings to the regulated work area including ducts, vents, electrical penetrations, and any other penetrations of the work areas with plastic sheeting. Plastic sheeting is to remain in place for the duration of the asbestos abatement or until specified by the QC.
  - c. Install another barrier or isolation method which prevents the migration of airborne asbestos and debris from the regulated work area.
  - d. Inspect the Building Openings: At the beginning of each work day, the Contractor shall inspect and ensure that all doors, windows and other openings of affected building(s) and all surrounding buildings are closed and locked (as applicable).
  - e. Sealing Openings: Seal all penetrations with plastic sheeting sealed with tape.
2. Step 2:
- a. Provide Decontamination Units/Areas where appropriate: Personnel Decontamination Unit(s) specified hereinafter shall be required.
  - b. Pre-Cleaning/Wet-Wiping: Pre-clean fixed objects within the work area, first using HEPA vacuum equipment and then wet cleaning methods as appropriate and separately enclose with minimum 6-mil plastic sheeting sealed with tape. Fixed objects shall include, but not be limited to, exposed electrical conduits and all other permanently fixed items.
  - c. Air Filtration Units (Interior Work): Install sufficient number of HEPA air filtration units to create a minimum of four air changes per hour and create a negative pressure differential of 0.02 inches of water. Contractor to monitor the pressure differential for the duration of the project using a portable manometer. Contractor will keep one spare unit at the job site for the duration of the work.
3. Step 3:
- a. Plasticizing: Objects which may be contaminated during abatement or difficult to clean shall be taped and sealed in a minimum of 6-mil polyethylene plastic sheeting. A minimum of 2 layers of 6-mil polyethylene plastic sheeting shall be used for preparation of critical barriers and containments.
  - b. When sealing (plasticizing), plastic sheet shall be protected against damages by sharp edges, projections, etc. Provide 2-inch squares of duct tape at all sharp projections prior to applying plastic sheet to prevent puncture and tearing.
  - c. Floor Covering Removal - Install a poly sheeting splashguard covering all walls within the work area, extending from the floor to four feet.



- d. NOTE: Combining lower mil thickness sheets to total the minimum mil thickness is not acceptable.
  - e. Marking Exits: Maintain and mark both normal and emergency exits from the work areas to include large tape or spray painted orange arrows in the direction of egress and at curtained doorways which side of plastic sheeting to access first. One arrow marking shall be visible from every work location. Establish a color or designation system to distinguish normal exiting to the personnel decontamination unit and emergency exiting when life safety conditions prevail.
4. Step 4: After the sealing work is completed, notify the Qualified Consultant and get his approval prior to proceeding with abatement.

### 3.5 REMOVAL OF FLOOR TILES/MASTIC

- A. Thoroughly wet the affected flooring material with the amended water before starting the removal.
- B. Prevent contamination spreading to the surrounding public area. A fine spray of the amended water shall be applied in small sections to reduce fiber release preceding the removal of the asbestos-containing material. Spray the asbestos-containing material repeatedly during the removal operations to maintain a wet condition and to minimize asbestos fiber dispersion. The Qualified Consultant shall have the authority to stop all work due to improper removal techniques.
- C. The asbestos-containing material shall be removed in small sections. Before beginning the next section, the material shall be packed while still moist into sealable 6-mil double polyethylene bags and sealed airtight. No removed material, whether bagged or unbagged, shall be allowed to dry, fall to the ground, be crumbled into small pieces, pulverized, or made friable.
- D. It shall be the responsibility of the Contractor to verify the thickness of the material and satisfy himself as to the total work and/or effort to remove said material.
- E. The Contractor is prohibited from using methods of removal that create excessive amounts of dust and debris. No mechanical methods will be utilized for the removal work.

### 3.6 EQUIPMENT CLEANING

All contaminated equipment and tools used for removal work shall be washed and cleaned in the work area prior to removing them from the work area. No washing of contaminated equipment and tools will be allowed outside the work area.

### 3.7 ASBESTOS CONTAINING WASTE HANDLING

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- A. Collect and bag all asbestos debris and any other contaminated debris found in the work area. Clean the visible residual by wet wiping.
- B. Debris shall be bagged and sealed in 6-mil plastic bags immediately after removal. All gross debris created by the removal process shall be bagged and sealed at the end of each removal day.
- C. The bags containing the asbestos waste material shall be checked for evidence of waste material attached to the outside of the bags. If dirty, the bags shall be washed down in the work area. The bags are then moved to the Holding bin. Bags and containers shall be marked with OSHA label prescribed by the Hawaii OSHA regulations referenced in this Section. Label shall state, "DANGER - CONTAINS ASBESTOS FIBERS - AVOID CREATING DUST - CANCER AND LUNG DISEASE HAZARD." Additionally, label bags in accordance with OSHA 40 CFR 61.150; or EPA 40 CFR 763 if more restrictive. Labeling shall include the name of the waste generator and the site where the waste was generated.
- D. Asbestos contaminated waste with sharp edges (e.g. nails, screws, metal lath, etc.) will tear the polyethylene bags and sheeting and therefore shall be placed in drums or enclosed with cardboard and double wrapped and sealed with plastic.

### 3.8 CLEANING AND CLEARANCE OF THE WORK AREA

- A. Should the Contractor fail to commence work to clean-up and make the work area asbestos free within one working day after the clean-up thereof has been requested by the State, and thereafter to expeditiously complete the said clean-up, State may without further notice and without termination of contract, have the clean-up done and deduct the cost thereof from the contract.
- B. Visual Clearance of Removal Work Areas: Remove all visible accumulation of asbestos containing materials and debris by HEPA vacuums, sponging, and wet-wiping. The work areas shall be totally visibly clean and remaining material encapsulated. The Contractor, in the presence of the Qualified Consultant, shall make a complete visual inspection of the work area to ensure dust-free conditions.
- C. Once the Qualified Consultant certifies that the work areas are essentially clean of asbestos containing debris and the clearance level of less than 0.01 f/cc is achieved, the other Contractors may proceed with their work. The removal of signage required by the Asbestos removal work shall be allowed after all asbestos containing material designated to be removed is removed. Signage applicable to job site safety and the performance of the remaining portions of the work shall remain as applicable.

### 3.9 DISPOSAL OF ASBESTOS CONTAINING MATERIAL

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- A. As the work progresses asbestos containing waste is generated the Contractor shall transport all waste generated on a pre-scheduled day to the State of Hawaii, Department of Health's AUTHORIZED disposal site, or as specifically approved by the State to delay a disposal operation. Transport all waste to the predesignated disposal site in accordance with EPA regulations and specific landfill requirements. Contaminated material shall be double-bagged in bags with OSHA label prescribed by the HIOSH regulations referenced in these specifications. Label shall state, "DANGER - CONTAINS ASBESTOS FIBERS - AVOID CREATING DUST - CANCER AND LUNG DISEASE HAZARD." Additionally, label bags in accordance with OSHA requirement 29 CFR 1926.1101 or EPA 40 CFR 61.150 if more restrictive. Labeling shall include the name of the waste generator and the site where the waste was generated.
- B. Mark vehicles used to transport asbestos containing waste material during the loading and UNLOADING of the waste so that the signs are visible. The marking must be displayed in such a manner and location that a person can easily read the legend. Refer to 40 CFR Part 61.149 for lettering size, fonts and wording of sign requirements. For all loading and unloading activities, the sign referred to in 40 CFR Part 61.150 (b) (3) shall be displayed prominently.
- C. Vehicles used for transporting waste to the disposal sites shall have a completely enclosed, LOCKABLE storage compartment. Storage compartments shall be plasticized and sealed with a minimum of one layer of 6 mil polyethylene sheeting on the sides and top and 2 layers of 6 mil polyethylene on the floor (bed). Waste materials, except those with sharp edges (metal lath, screws, nails, metal suspension system, etc.), properly double bagged may be transported to the disposal site without being placed in drums if the transporting vehicle is prepared as specified above in addition to any more stringent requirements by HIOSH. The compartments shall be thoroughly wet-cleaned and/or HEPA vacuumed following the disposal of each load at the disposal sites at an approved location with electrical power as required. At the conclusion of the asbestos abatement, or before transport vehicles are used for other purposes, the polyethylene sheeting shall be properly removed and disposed of as contaminated waste. After this has been accomplished, compartments shall once again be wet cleaned and HEPA vacuumed in order to eliminate all debris.
- D. At the landfill, upon delivery of the waste for disposal, the Contractor shall notify the Scale ATTENDANT and Landfill Spotter that the waste to be disposed of is asbestos material.
- E. Workers unloading bags at the disposal sites shall be dressed in full body protective clothing and DUAL cartridge respirators.
- F. Waste disposal manifest forms shall be properly completed to assure custody and disposal of all asbestos containing material and asbestos contaminated waste at approved disposal sites. Forms shall be kept on file as directed by the State with copies submitted to the Qualified Consultant the next working day after each trip. NOTE: IT IS THE CONTRACTOR'S

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RESPONSIBILITY TO ASSURE THAT ANY LANDFILL USED FOR DISPOSAL OF ASBESTOS-CONTAINING OR ASBESTOS CONTAMINATED WASTE IS APPROVED FOR THAT PURPOSE.

- G. Bags must be placed in the hole for burial. Dumping of bags from the containers will not be allowed. However, if a bag is torn and if acceptable by the landfill, the entire container may be buried.
- H. Liquid waste for disposal shall be filtered as specified herein.
- I. The Contractor shall pay the waste disposal charge and any special handling charges at the landfills. All expenses for landfills shall be the complete responsibility of the Contractor. The bagged material shall be loaded in drums except as noted previously and transported to a landfill authorized by the State Department of Health to accept material containing asbestos. In the event the bag is torn, the tear shall be immediately mended with duct tape and the bag placed into another bag and sealed, and the wrapped material covered with another wrap and sealed. The Contractor shall make all prior arrangements with the landfill.

### 3.10 LOCK DOWN

After clean-up of gross contamination and final visual inspection, a compatible post removal (lockdown) encapsulant shall then be spray applied to all surfaces. The removal area shall include but not to be limited to constructed enclosures, barriers, polyethylene sheeting that covers any equipment articles to be discarded, critical barriers, air locks, load out units for bag removal, and on-site constructed decontamination unit.

### 3.11 CONTRACTOR RESPONSIBILITIES

- A. The Contractor shall be responsible for his employees' personnel protection, personal air monitoring and necessary records as required by OSHA (29 CFR 1926.1101) and all other applicable laws and as required in these specifications. The Contractor shall provide all required documentation to the State. Contractor shall collect daily personal air samples on at least 25 percent of the personnel performing removal work with the most exposure for the duration of the project.
- B. The Contractor shall procure legally required reports for air monitoring as part of the contract. All air monitoring reports shall include all field data, laboratory reports, test results and other pertinent information about the daily work activities.

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**Asbestos Notification of Demolition & Renovation  
(Ref. HAR Chapter 11-501)**

**SEND TO: STATE DEPARTMENT OF HEALTH  
INDOOR AND RADIOLOGICAL HEALTH BRANCH  
99-945 HALAWA VALLEY STREET  
AIEA, HAWAII 96701  
Phone (808) 586-5800 Fax (808) 586-5811**



<b>I. Type of notification:</b> O=original R=revised C=cancelled		
<b>II. Type of operation:</b> D=Demolition R=Renovation OD=Ordered Demolition ER=Emergency Renovation		
<b>III. Facility information</b>		
Owner name:		
Address:		
City:	State:	Zip code:
Contact person:		Telephone #:
Removal contractor:		License #:
Address:		
City:	State:	Zip code:
Contact person:		Telephone #:
Other operator:		
Address:		
City:	State:	Zip code:
Contact person:		Telephone #:
<b>IV. Is asbestos present (y/n):</b>		
Inspector's name:	Certification #:	State of certification:
<b>V. Facility description (Include building number, floor and room number)</b>		
Building name:		
Address:		
City:	State:	Zip code:
Location(s) on site:		
Building size (sq. ft.):	# Floors:	Age:
Present use:	Prior use:	
<b>Official Use Only</b>		
Postmark Date:	Received by:	State Record Number:

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<b>VI. Procedure used to detect the presence of asbestos</b>			
Laboratory name:		Analytical method:	
<b>VII. Specify the nature of the asbestos material (TSI, surfacing, VAT, miscellaneous):</b>			
Amount of asbestos, including: 1. RACM to be removed 2. CAT I left in place, and 3. CAT II left in place	RACM to be removed	Nonfriable ACM (not) to be removed	
		Category I	Category II
Pipes (linear ft.)			
Surfacing (square ft.)			
Facility components (cu. ft.)			
<b>Scheduled asbestos abatement dates</b>			
Start (mm/dd/yy):		Finish (mm/dd/yy)	
Circle workdays and times:	weekdays:	daytime	nighttime
	weekends:	daytime	nighttime
<b>Scheduled renovation/demolition dates</b>			
Start (mm/dd/yy):		Finish (mm/dd/yy)	
Circle workdays and times:	weekdays:	daytime	nighttime
	weekends:	daytime	nighttime
<b>Description of the planned renovation/demolition work and methods to be used:</b>			
<b>Description of the work practices and engineering controls to be used to prevent emissions of asbestos from the work-site:</b>			
Project designer name:		Certification #:	State:
<b>XII. Waste transporter #1</b>			
Name:			
Address:			
City:	State:	Zip code:	
Contact Person:		Telephone:	
<b>Waste transporter #2</b>			
Name:			
Address:			
City:	State:	Zip code:	
Contact Person:		Telephone:	
<b>XIII. Waste disposal site</b>			
Facility Name:		Telephone:	
Address:			
City:	State:	Zip code:	

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<b>XIV. For demolition ordered by a government agency, please identify</b>	
Name:	Title:
Authority (Agency):	
Date of order (mm/dd/yy):	Date ordered to begin (mm/dd/yy):
<b>XV. For emergency renovations (Please call 808-586-5800 for additional instructions)</b>	
Date and time of emergency	
Date (mm/dd/yy):	Time: (a.m./p.m.)
Description of sudden, unexpected event and the damage caused:	
Explanation of how the event caused an unsafe condition or would cause equipment damage or an unreasonable financial burden:	
Person contacted for approval at the Indoor and Radiological Health Branch:	
Name:	Date (mm/dd/yy): Time: (a.m./p.m.)
<b>XVI. Description of procedures to be followed in the event that unexpected asbestos is found or previously nonfriable asbestos material becomes crumbled, pulverized or reduced to powder:</b>	
<b>XVII. I certify that an individual trained in the provisions of Hawaii administrative rules chapter 11-501, and certified as a contractor/supervisor, will be on-site during the entire renovation and/or demolition and evidence that the required training has been accomplished for this and all workers will be available at the work-site.</b>	
Signature of owner/operator _____	Date (mm/dd/yy): _____
<b>XVIII. I certify that the information on this notification is correct.</b>	
Signature of owner/operator _____	Date (mm/dd/yy): _____
<b>XIX. Additional Comments:</b>	
_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____	

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VISITOR/WORKER ENTRY LOG  
(Sample)

DATE

PROJECT

ALL PERSONNEL MUST SIGN-IN AND SIGN-OUT EVERY TIME THEY ENTER/EXIT THE WORK AREA. PLEASE PRINT CLEARLY. ATTACH EMPLOYEE RELEASE FORM FOR ALL VISITORS.

NAME	EMPLOYER Name, *Address, *Phone	TIME IN	TIME OUT	*PURPOSE OF VISIT	**TYPE OF PPE ISSUED

\*NOT required of Contractor's employees

\*\* Type of PPE (Personal Protective Equipment) Issued to include list of protective clothing worn and type of respirator used (Type "C", half-face dual cartridge, etc.)

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EMPLOYEE ACKNOWLEDGMENT OF INSTRUCTION AND RELEASE FORM  
(sample)

Employee Name: \_\_\_\_\_

Employee Address: \_\_\_\_\_

Employee Telephone No.: \_\_\_\_\_

DOH Asbestos Certification Number: \_\_\_\_\_

Classification of Worker: \_\_\_\_\_

Have you had in the past, or present, any respiratory problems?

Yes: \_\_\_\_\_ No: \_\_\_\_\_

Have you worked in the past with asbestos or fiberglass type materials?

Yes: \_\_\_\_\_ No: \_\_\_\_\_

The project you will be working on involves the use of asbestos and the removal of the asbestos from the building. Asbestos is considered a health hazard.

The company is supplying all necessary safety clothing and working conditions required and necessary for your protection from asbestos hazard.

You shall be instructed a commencement of the job on the required use of safety equipment, clothing, working conditions and procedures. These must be rigidly adhered to. Smoking is not permitted in the work areas. Disregarding of safety instructions shall result in instant dismissal.

I acknowledge that safety instructions have been given to me by the company at my work commencement and I am thoroughly conversant with them and have answered the above questions truthfully.

Signed: \_\_\_\_\_  
Employee

Date: \_\_\_\_\_

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ASBESTOS DISPOSAL FORM  
(sample)

Date: \_\_\_\_\_

Owner or Operator of Landfill: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Name of Landfill: \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Hauler: \_\_\_\_\_

Approximate Volume of Asbestos Received: \_\_\_\_\_

Type of Container Asbestos is in: \_\_\_\_\_

Asbestos Container Labeled? YES: \_\_\_\_\_ NO: \_\_\_\_\_

I certify that the above statements are true and that the landfill has been approved for the disposal of asbestos. The delivered material will be covered within 6 inches (15 cm.) of non-asbestos material within 24 hours.

Signed: \_\_\_\_\_

Landfill Owner-Operator: \_\_\_\_\_

END OF SECTION

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SECTION 13288

TESTING AND MONITORING

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

As specified in Section 01019 - GENERAL SPECIFICATIONS, Special Provisions, and the General Conditions of the Contract.

1.2 SUMMARY

A. General Contractor's Responsibilities for project air monitoring and inspectional services for the purposes of:

1. Verifying compliance with the specifications listed in SECTION 13281 - ASBESTOS ABATEMENT.
2. Ensuring that the State's legally required documentation is collected.
3. Providing engineering control during the project.

1.3 DEFINITIONS

- A. ACM: Asbestos containing materials.
- B. ASCM: Arsenic containing materials.
- C. Building Representative(s): The person or persons designated by the users of the building to act on their behalf.
- D. Contractor: The construction firm engaged to remove, encapsulate and/or dispose of the ACM.
- E. Industrial Hygienist: A Certified Industrial Hygienist (CIH) certified by the American Board of Industrial Hygiene who shall direct all air monitoring and project supervision.
- F. Competent Person: The Contractor shall employ Competent Person who is educated and trained in recognizing and evaluating work place hazards and stress (in this instance, asbestos abatement and related work in accordance with 29 CFR 1926.1101) and providing guidance on the methods and means of removing or correcting such hazards and stresses within the work environment.

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- G. Project Designer: The person of firm who prepared the plans and specifications to remove, encapsulate and dispose of the ACM.
- H. Project Manager: The State's employee responsible for administering the construction contract and ensuring that the work of the Contractor is conducted according to the contract documents and in compliance with applicable laws, regulations, ordinance, etc.
- I. Project Monitor: A member of the construction management team who enters the work area to set up the air monitoring device and then collects the various air samples to be sent to the laboratory for analysis.
- J. Qualified Consultant: Consultant hired by the General Contractor who will perform asbestos air monitoring and inspection during the asbestos abatement work and shall have the authority to initiate engineering controls. The Qualified Consultant will be accredited as a State of Hawaii Department of Health accredited Asbestos Project Monitor.

#### 1.4 COORDINATION WITH OTHER SECTIONS

Coordinate with the State's Inspector for the testing/air monitoring requirements included in SECTION 13281 - ASBESTOS ABATEMENT.

#### 1.5 PRE-CONSTRUCTION CONFERENCE

- A. Hold conference prior to construction and shall be conducted by the Engineer assisted by the consultant's construction manager.
  - 1. Attendance: Present also shall be the Contractor, project designer, user agency and/or building representative(s), industrial hygienist, and the Qualified Consultant.
  - 2. Agenda:
    - a. Review final schedule for project.
    - b. Verify legal requirements and special conditions.
    - c. Verify compliance with pre-construction requirement.
    - d. Obtain copies of all mandatory notifications.
    - e. Inspect sample respiratory equipment and other abatement equipment.
    - f. Review procedures and responsibilities.

- g. Clarify the scope of work and its best impact on the users of the building.

## PART 2 - PRODUCTS (Not Used)

## PART 3 - EXECUTION

### 3.1 GENERAL CONTRACTOR'S RESPONSIBILITIES

Ambient and clearance air monitoring and inspection services will be supplied by the General Contractor.

### 3.2 CONTRACTOR'S RESPONSIBILITIES

- A. The Contractor shall be responsible for providing the daily personal air monitoring and necessary records for all of the Contractor's employees for the duration of the project as required by OSHA (29 CFR 1926.1101), and all other applicable laws. The Contractor shall also provide personal air monitoring for PCBs.
- B. The Contractor shall obtain the OSHA required reports for personnel air monitoring as part of the contract.
- C. The Contractor shall be responsible for daily personal air samples that shall be collected on at least 25% of the personnel performing removal work on similar tasks and for the duration of the project. Submit within 1 working day to the Engineer.
- D. The Contractor is solely responsible for protecting his workers, other personnel, and the public from any of his work activities at the work site regardless of the testing and monitoring conducted by the State.
- E. Monitoring information developed by the Qualified Consultants activities while under contract with the General Contractor will be for the use of the State. The information will be available and offered to the Contractor when developed, but not thereafter, and shall not waive the Contractor's obligations stated elsewhere in this section.
- F. Air monitoring and testing becomes necessary to follow up on work by the Contractor which is rejected as not conforming to the requirements shall be the responsibility of the State. However, the full cost of such additional monitoring and testing shall be borne by the Contractor and shall be deducted from the final contract payment.

### 3.3 TESTING AND AIR MONITORING

- A. Duties of the Qualified Consultant:

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1. Photographic Record of Project: Record the asbestos abatement project with representative photos. All photos shall become the property of the State and are to be accompanied by a detailed log.
  2. Project Log: Maintain daily field reports detailing all key activities during abatement and make a summary of project activities to the project designer and the State's project manager. Incorporate the contents of the daily field reports with other project data into a final project report.
  3. Visual Inspection of Containment Areas: Perform regular inspection of all containment areas. Conduct inspections during the actual work performance of the Contractor to document the work practices employed by the Contractor and prior to air testing in each area to verify that all materials scheduled for abatement were removed and the area was properly cleaned.
- B. Air Monitoring: The on-site air monitoring specialists and industrial hygienists shall perform the following activities associated with this portion of the project:
1. On-site environmental and personnel air monitoring as required by EPA, OSHA, and the project specifications.
  2. Laboratory analysis by PCM analysis using NIOSH 7400 method.
  3. Laboratory analysis by PCBs analysis using NIOSH 5503 method.
  4. Monitoring of decontamination procedures at site entry/exit.
  5. Monitoring of containment maintenance by visual and instrumental inspection.
  6. Interface with project inspectors, building representatives, representatives of regulatory agencies, and project designers during site visits.
  7. Ensure that proper respiratory protection is utilized by all persons at the project site.
  8. Relay to the State's Project Manager any discrepancies in Contractor's action with provisions of project specifications.
  9. Act quickly in case of emergencies with appropriate response.

### 3.4 SAMPLING DESIGN

- A. The following is a typical sampling design during the actual construction. The number of samples and volume quantities may vary, depending on each project's specifications.

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1. Work Area Samples: Low volume samples of 480 liters each shall be taken in the work area. Ambient air samples shall be taken at the inside and outside of the work area and that the persons entering the work area are wearing proper respiratory protection. If monitoring inside and outside the work area shows airborne concentrations have reached the predetermined specified TWA, the consultant shall stop all work, notify the Engineer immediately, have the Contractor correct the condition(s) causing the increase and ensure that the Contractor obtains the Engineer's approval prior to restarting the removal work.
2. Final Clearance Samples: Upon completion of all asbestos work, the Qualified Consultant shall conduct visual inspection of the asbestos work area and post abatement clearance sampling. The post abatement clearance sampling shall be conducted for all interior asbestos work areas.

### 3.5 LABORATORY ANALYSIS

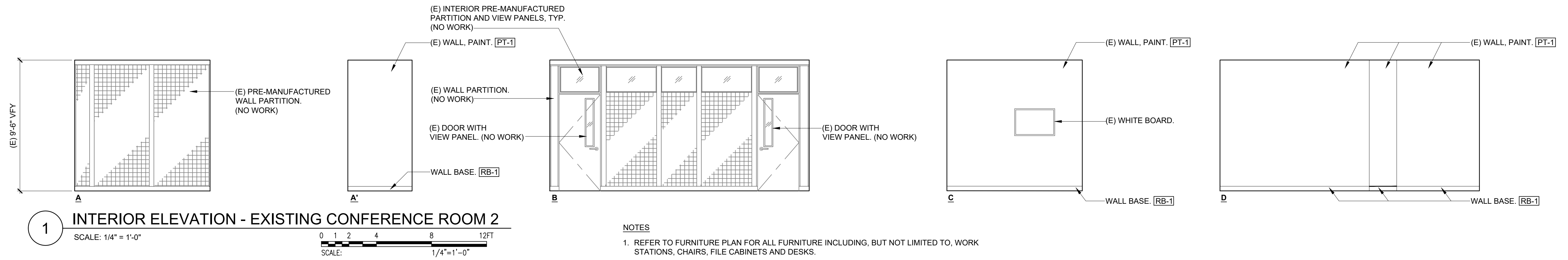
The Qualified Consultant shall maintain testing facilities in the vicinity of the project site. An industrial hygiene monitoring setup with high-volume and low-volume pumps, calibrators and all filtering needs, in addition to a fully-equipped laboratory for rapid sample analyses to the field, shall be included in this facility. This is vital because it increases the efficiency of the Contractor and allows immediate readings of air samples, rather than mailing them to a laboratory, which sometimes delays the release of containment area.

### 3.6 DAILY TESTING RECORDS

At the conclusion of every day's testing, the Qualified Consultant shall provide copies of all air monitoring records of each containment area to the Engineer and the Contractor.

END OF SECTION





**1 INTERIOR ELEVATION - EXISTING CONFERENCE ROOM 2**  
SCALE: 1/4" = 1'-0"

**NOTES**  
1. REFER TO FURNITURE PLAN FOR ALL FURNITURE INCLUDING, BUT NOT LIMITED TO, WORK STATIONS, CHAIRS, FILE CABINETS AND DESKS.

EXISTING FURNITURE LIST: TO BE SALVAGED FOR RELOCATION, TEMPORARY, STORAGE, AND FOR CONTRACTOR REINSTALLATION															
TYPE	QTY	DESCRIPTION	SIZE	TYPE	QTY	DESCRIPTION	SIZE	TYPE	QTY	DESCRIPTION	SIZE	TYPE	QTY	DESCRIPTION	SIZE
CPY-1	1	COPY MACHINE	28" X 54" X 39" HT 10" TRAY	BC-2	2	BLACK LARGE BOOKCASE	13" X 35" X 71" HT	DF-1	1	7-DRAWER FILE	23.5" X 28.5" X 37" HT	WP-1	1	WOOD PODIUM	17" X 24" X 53" HT
CPY-2	1	COPY MACHINE	30" X 66" X 40" HT 8" TRAY	D-1	5	DESK	30" X 60" X 28" HT	GF-1	17	GREEN FILE CABINET	18.5" X 28 X 32" HT	CL-1	1	WALL CLOCK	12"
CPY-3	1	COPY MACHINE	24" X 40" X 46" HT	D-2	1	DESK	29.5" X 60" X 29" HT	MC-1	1	MEDIUM METAL CABINET	18.5" X 36" X 42" HT	TB-1	3	TACK BOARD	48" X 96"
CPY-4	1	COPY MACHINE	24" X 27" X 45" HT 8" TRAY	D-3	3	DESK	24" X 48" X 49" HT	MC-2	1	LARGE METAL CABINET	24" X 38" X 78" HT	WB-1	3	WHITE BOARD	24" X 36"
MS-1	1	MEDIUM METAL SHELF	18.5" X 37.5" X 48" HT	D-4	2	DESK	28" X 60" X 28.5" HT	MF-1	2	2 TIER FILE	19" X 30" X 28" HT	WB-2	1	WHITE BOARD	36" X 48"
MS-2	1	MEDIUM METAL SHELF	12.5" X 37" X 52" HT	D-5	1	DESK	30" X 73.5" X 29" HT	MF-2	1	3 TIER FILE	13" X 36" X 56" HT	PH-1	1	PEN HOLDER	2" X 4" X 4" HT
MS-3	1	MEDIUM METAL SHELF	17.5" X 37" X 52" HT	D-6	1	DESK	30" X 48" X 26.5"	FAN-1	1	PEDESTAL FAN	15"	SL-1	1	STEP LADDER	17" X 30" BASE X 33" HT
MS-4	12	TALL METAL SHELF	13" X 36" X 78" HT	D-7	1	DESK	48" X 150" X 29"	TS-1	1	TABLE STAND ON WHEELS	19.5" X 32" X 25.5" HT	MSL-1	1	SMALL MAIL SLOT	17" X 60" X 12" HT
MR-1	1	LARGE METAL RACK	12" X 37.5" X 84"	WD-1	1	WOOD DESK	30" X 60" X 32" HT	TV-1	1	TV MONITOR	29" X 51"	MSL-2	2	LARGE MAIL SLOT	16" X 38" X 60" HT
SR-1	1	SMALL STEEL RACK	19" X 36" X 35" HT	F-1	6	MEDIUM FILE CABINET	18" X 28" X 52" HT	TV-2	1	TV MONITOR	33" X 58"	BD-1	1	BLACK DESK	17" X 60" X 40" HT
BC-1	1	LARGE BOOKCASE	11" X 44" X 67" HT	F-2	3	TALL FILE CABINET	18.5" X 28" X 57.5" HT	WSH-1	1	WOOD SHELF	18.5" X 22" X 48" HT	DH-1	1	DESK HUTCH	17" X 60" X 8" HT

**NOTES:**  
1. SUBMIT COMPLETE AND VERIFIED FURNITURE LIST AND PHOTO DOCUMENTATION TO THE ENGINEER PRIOR TO REMOVAL AND STORAGE.  
2. FURNITURE LOCATION SHALL COMPLY WITH ADAAG 404.2.4.1  
3. REFER TO SHEET A-11 FOR TYPICAL DOCUMENTATION OF EA WORKSTATION, WS-1 THRU WS-5 AND WSM-1.

FINISH / MATERIAL SCHEDULE					
TYPE	DESCRIPTION	COLOR	FINISH / PRODUCT INFO.	MANUFACTURER	REMARKS
CS-1	PAINT - DOOR EDGES	CLEAR STAIN	SEMI-GLOSS	MNF: SHERWIN WILLIAMS CONTACT: RICHARD CONDIE, CSI TEL: (916) 267-3232 EMAIL: richard.condie@sherwin.com	PROVIDE SUBMITTAL AND SAMPLE PRODUCT DATA FOR ARCHITECT REVIEW PRIOR TO ORDER AND INSTALLATION.
PT-1	PAINT - INTERIOR WALLS, CONDUIT DROPS	MATCH: EXISTING ROOM COLOR	SEMI-GLOSS	MNF: SHERWIN WILLIAMS CONTACT: RICHARD CONDIE, CSI TEL: (916) 267-3232 EMAIL: richard.condie@sherwin.com	PROVIDE SUBMITTAL AND SAMPLE PRODUCT DATA FOR ARCHITECT REVIEW PRIOR TO ORDER AND INSTALLATION.
RB-1	RUBBER BASE - COVE BASE	MOLASSES R41ML	ARMSTRONG FLOORING (OR APPROVED EQUAL) - 4" RUBBER BASE	MNF: ARMSTRONG FLOORING CONTACT: SHEILA SURBAN, TRI-WEST TEL: (808) 372-0529 EMAIL: ssurban@triwestltd.com	PROVIDE SUBMITTAL AND SAMPLE PRODUCT DATA FOR ARCHITECT REVIEW PRIOR TO ORDER AND INSTALLATION.
VCT-1	VINYL COMPOSITE TILE PREMIUM EXCELON IMPERIAL TEXTURE	51804 EARTHSTONE GREIGE	ARMSTRONG FLOORING (OR APPROVED EQUAL) 12" X 12" X 1/8" POLISHED, SEE REMARKS	MNF: ARMSTRONG FLOORING CONTACT: SHEILA SURBAN, TRI-WEST TEL: (808) 372-0529 EMAIL: ssurban@triwestltd.com	PROVIDE SUBMITTAL AND SAMPLE PRODUCT DATA FOR ARCHITECT REVIEW PRIOR TO ORDER AND INSTALLATION. FLOOR POLISH S-480 OVER NEW TILE.
RS-1	WINDOW ROLLER SHADES (MANUAL)	STONE, 6080 - WOVEN SHADE 1% OPENNESS FACTOR / TRANSPARENCY	MECHO 5 (OR PRE-APPROVED EQUAL) MANUAL ROLLER SHADE, SINGLE ROLL W/ CHAIN PULL, SIDE MOUNTED HARDWARE WITH MATCHING WOVEN SHADE VALANCE AND CLOSURE PANELS.	MNF: MECHOSHADE OR PRE-APPROVED EQUAL CONTACT: MICK DODGE TEL: (925) 765-8972 EMAIL: mick.dodge@springwindowfashions.com	PROVIDE SUBMITTAL AND SAMPLE PRODUCT DATA FOR ARCHITECT REVIEW PRIOR TO ORDER AND INSTALLATION.

ADDENDUM NO. 3	5/21/24				
ADDENDUM NO. 2	5/8/24				
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES LAND DIVISION					
DLNR LAND OFFICE IMPROVEMENTS KALANIMOKU BUILDING, ROOM 220					
INTERIOR ELEVATIONS FINISH MATERIAL, FURNITURE LIST					
DESIGNED: RTM			SUBMITTED:		
DRAWN: KH			DATE: 04/12/24		
CHECKED: RTM			SCALE: AS NOTED		
APPROVED:			DRAWING NO.		
CHIEF ENGINEER			DATE		
			<b>A-9</b>		

This work was prepared by me or under my supervision and construction of the project will be under my observation. Expiration date 04/30/26.  
OMIZU Architecture Inc.