



August 6, 2021

State of Hawaii Department of Transportation  
Highways Division, Maui District  
650 Palapala Drive,  
Kahului, Hawaii 96732

Attention: Mr. Ty Fukuroku

Subject: Limited Hazardous Materials Survey  
State of Hawaii Department of Transportation  
Highways Division, Maui District Office

The following comprehensive report documents the limited hazardous materials activities performed at Department of Transportation Maui District Office, Kahului, Maui, Hawaii on July 23, 2021. ETC inspected the Subject Site for suspected asbestos-containing materials (ACM), lead-containing and lead-based paint (LCP & LBP), and arsenic-containing materials (AsM) as part of the State of Hawaii Department of Transportation, Highways Division Maui District Office renovations.

Laboratory analysis indicated the following to be asbestos-containing material:

- White joint compound on interior drywall walls contained 2% chrysotile.
- Grey caulking on interior window frames contained 20% chrysotile.
- Off-white skim coat on interior CMU walls contained 2% chrysotile.
- White joint compound on interior drywall ceiling of restroom ceilings contained 2% chrysotile.

Laboratory analysis indicated the following to be lead-containing paint:

- Purple paint on east drywall wall of the general office area was lead-containing.
- Light yellow paint in the of the shared gender restroom and throughout various offices was lead-containing.
- Navy blue paint on east drywall wall of the survey crew area was lead-containing.
- Grey paint on exterior textured concrete walls was lead-containing.
- White paint on exterior fascia was lead-containing.

Laboratory analysis indicated no arsenic-containing materials present at the time of the survey.

If you have any questions or desire further information, please feel free to contact me at 808-839-7222.

Respectfully,

**ENVIROSERVICES & TRAINING CENTER, LLC**

A handwritten signature in black ink, appearing to read "B. Carroll".

Brian Carroll  
Environmental Scientist

# **LIMITED HAZARDOUS MATERIALS SURVEY REPORT**

State of Hawaii Department of Transportation  
Maui District Office  
650 Palapala Drive  
Kahului, Maui, Hawaii 96732

Prepared for:  
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ETC Project No. 19-3501

August 6, 2021

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## 1.0 CERTIFICATIONS AND LIMITATIONS


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EnviroServices & Training Center, LLC (ETC) has completed this Limited Hazardous Materials Survey (Survey) of the State of Hawaii Department of Transportation, Highways Division, Maui District (DOT), District Office, located at 650 Palapala Drive, Kahului, Maui, Hawaii (Subject Site). ETC's findings and recommendations contained herein are based on site observations, government regulations and laboratory data, which were gathered at the time and location of the study. Opinions stated in this report do not apply to changes that may have occurred after the services were performed.

ETC has performed specified services for this project with the degree of care, skill and diligence ordinarily exercised by professional consultants performing the same or similar services. No other warranty, guarantee, or representation, expressed or implied, is included or intended, unless otherwise specifically agreed to in writing by both ETC and ETC's Client.

This report is intended for the sole use of the DOT (Client), exclusively for the Subject Site. Client may use and release this report, including making and retaining copies, provided such use is limited to the Subject Site and project for which this report is provided. However, the services performed may not be appropriate for satisfying the needs of other users. Release of this report to third-parties will be at the sole risk of ETC's Client and/or said user, and ETC shall not be liable for any claims or damages resulting from or connected with such release or any third party's use or reuse of this report.

Surveyed By:   
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State of Hawaii Asbestos Building Inspector #HIASB-5099  
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Surveyed and  
Prepared By:   
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State of Hawaii Lead Based Paint Inspector # PB-1124

## 2.0 EXECUTIVE SUMMARY

ETC has conducted a Survey and compiled this report for the State of Hawaii Department of Transportation, Highways Division, Maui District (DOT) Office located at 650 Palapala Drive, Kahului, Hawaii, the Subject Site. The scope of services was limited to all interior and exterior building materials which could potentially be affected by future renovations as specified by Mr. Ty Fukuroku of the DOT Maui District Office. The following summarizes the results of ETC's survey on July 23, 2021.

### 2.1 Summary of Asbestos Containing Building Materials Survey

Four (4) materials sampled contained a non-regulated asbestos below the regulatory limit of 1% but above the laboratory's detection limit. The following table summarizes these findings.

#### Asbestos-Containing Materials

Homogeneous Area	Material	Asbestos Content	Estimated Quantity
Walls	Joint compound on drywall	2% Chrysotile	15,000 sq. ft.
Interior window frames	Grey caulking	20% Chrysotile	150 l.f.
Walls	Skim coat on CMU	2% Chrysotile	10,000 sq.ft.
Restroom ceilings	Joint compound on drywall	2% Chrysotile	400 sq.ft.

### 2.2 Summary of Lead Paint Survey

None of the sampled paint was found to contain lead in excess of the Environmental Protection Agency (EPA)/United States Department of Housing and Urban Development (HUD) guideline of 0.5 percent lead by weight, defining Lead-Based Paint (LBP).

Five (5) paints sampled were found to contain lead above the laboratory detection limit, but below the EPA/HUD guideline, classifying it as Lead-Containing Paint (LCP). The following table summarizes these findings.

#### Lead-Containing Paints

Location	Color	Substrate	Description	Estimated Quantity
General office E. wall	Purple	Drywall	Intact	400 sq. ft.
Throughout	Light yellow	Drywall/concrete	Intact	250 sq. ft.

Location	Color	Substrate	Description	Estimated Quantity
Survey crew area E. wall	Navy blue	Drywall	Intact	400 sq. ft.
Exterior walls	Grey	Concrete/CMU	Fair	15,000 sq. ft.
Roof - Fascia	White	Wood	Poor	3,000 sq. ft.

The remaining eleven (11) sampled paints did not contain detectable amounts of lead, classifying them as non-lead containing.

### 2.3 Summary of Arsenic Survey

ETC personnel identified, and sampled materials suspected of being treated with arsenic, from the Subject Site. None (0) of the sampled materials were found to contain levels of arsenic above the laboratory reporting limit of thirteen milligrams per kilogram (13 mg/kg), classifying them as non-arsenic containing.

### 3.0 INTRODUCTION/PURPOSE

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The purpose of this Survey was to inspect the Subject Site for the presence of hazardous materials on the interior and exterior of the Maui District Office. Specifically, ETC completed the following tasks:

- Mobilized a State of Hawaii Department of Health (DOH)/ Environmental Protection Agency (EPA) certified asbestos building inspector and lead risk assessor to the Subject Site;
- Collected one hundred twenty (120) samples of forty (40) suspected asbestos-containing materials (ACM) from the Subject Site and recorded the location of each material;
- Submitted the 120 samples of suspected ACM to Hawaii Analytical Laboratory (HAL) for asbestos analysis via Polarized Light Microscopy (PLM) in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 600/R -93/116;
- Collected sixteen (16) paint chip samples from the Subject Site;
- Submitted the 16 paint chip samples HAL for analysis by flame atomic absorption spectroscopy (FAAS) via EPA SW-846 Method 7420 for total lead content;
- Collected one (1) samples of suspected arsenic containing materials (AsCM) from the Subject Site;
- Submitted (1) samples of suspected AsCM to NVL Laboratories, Inc. (NVL) for analysis of total arsenic content via EPA Method 6010; and
- Prepared this report documenting the field activities and the results of the investigation including analytical results, conclusions, and recommendations.



## **4.0 METHODOLOGY**

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### **4.1 Asbestos**

ETC personnel collected a total of one hundred twenty (120) samples of forty (40) suspected ACM for asbestos analysis. Samples were collected in accordance with EPA guidelines and recommendations.

The suspected ACM was wetted before sample collection. A small piece was then carefully cut out and placed into a labeled, re-sealable plastic bag. The sampling equipment was cleaned between each sample collection to avoid cross-contamination between samples. Sample locations were randomly selected in accordance with EPA protocols and recommendations.

Samples were properly logged and recorded following strict chain-of-custody procedure and submitted to HAL located in Honolulu, Hawaii for analysis by PLM in accordance with EPA Method 600/R-93/116. HAL is accredited for bulk asbestos analysis through successful participation in the National Voluntary Lab Accreditation Program (NVLAP).

### **4.2 Lead Paint**

ETC personnel collected and had analyzed sixteen (16) paint chip sample from the Subject Site in accordance with the EPA guidelines and recommendations.

The suspected lead-containing paints were wetted with amended water before sample collection. Paint was carefully scraped and placed into a labeled re-sealable plastic bag. The sampling equipment was cleaned between each sample collection to avoid cross-contamination between samples.

Samples were properly logged and recorded following strict chain-of-custody procedure and submitted to HAL located in Honolulu, Hawaii for analysis by FAAS, in accordance with EPA Method 7420. HAL is an Environmental Lead Laboratory Accreditation Program (ELLAP)-accredited laboratory.

### **4.3 Arsenic**

ETC personnel collected one (1) sample of materials suspected of being treated with arsenic, from the Subject Site. The suspected AsCM samples were collected in accordance with EPA guidelines and recommendations.

The suspected AsCM was wetted before sample collection. Small pieces were then carefully cut out and placed into a labeled, re-sealable plastic bag. The samples were logged and recorded following strict chain-of-custody procedure and submitted to NVL in Seattle, Washington for analysis by EPA Method 6010.

## **5.0 RESULTS**

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### **5.1 Asbestos**

A total of one hundred twenty (120) suspect asbestos samples were collected from forty (40) suspected materials and submitted for analysis via PLM. Four (4) of the sampled materials were found to contain levels of asbestos above the regulatory limit of 1%. A detailed list of sampled materials and results can be found in Table 1 included in Appendix I.

In accordance with federal and state regulations, and industry standard practice, ETC determined homogeneous areas of each suspect material and collected multiple representative samples of the material from each homogeneous area by building and floor. Typically, all samples for a suspect material will have similar laboratory results. When the results differ, a single result above the regulatory limit is sufficient to determine that the material within the homogeneous area is ACM and the entirety of the homogeneous area should be treated as ACM. Thus, ETC may request that the laboratory stops analyzing when the first sample in the set is determined to have an asbestos content above one percent.

In addition, three (3) materials were found to contain fibrous glass at a concentration. It is ETC's recommendation to handle materials containing such fibers with appropriate protective equipment.

A detailed list of sampled asbestos and results can be found in Table 1 included in Appendix I.

Asbestos laboratory analytical results are included in Appendix II.

### **5.2 Lead Paint**

None (0) of the paint samples were determined to contain lead in excess of the Environmental Protection Agency (EPA)/United States Department of Housing and Urban Development (HUD) guideline of 0.5% lead by weight defining Lead-Based Paint (LBP).

Five (5) of the sampled paints were found to contain detectable levels of lead less than the EPA/HUD guideline but greater than or equal to the reporting limit for the laboratory of 0.01% lead by weight, classifying them as Lead-Containing Paint (LCP).

The eleven (11) remaining sampled paint was not found to contain any detectable amounts of lead, classifying them as non-lead containing.

A detailed list of sampled paints and results can be found in Table 2 included in Appendix I.

Lead laboratory analytical results are included in Appendix II.

### **5.3 Arsenic**

None (0) of the suspect arsenic-containing materials (AsCM) identified and sampled by ETC were found to contain arsenic.

A detailed list of sampled materials and results can be found in Table 3 included in Appendix I.

Arsenic laboratory analytical results are included in Appendix II.

## 6.0 DISCUSSION AND RECOMMENDATIONS

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The findings and recommendations of ETC's limited hazardous material survey extended only to those areas that were accessible at the time of the site reconnaissance. ETC collected samples from inconspicuous areas when possible. Any areas that were inaccessible either due to physical restraints (i.e. areas within walls, behind locked doors, beneath flooring materials, hidden materials, etc.) or occupancy are not covered under the scope of this survey and should be evaluated for hazardous materials separately prior to any disturbance.

Based on ETC's visual inspection of the Subject Site and laboratory data, ETC recommends the following:

- Any materials at the Subject Site that are suspected to contain a hazardous contaminant but was not tested as part of this survey should be tested prior to disturbance.
- Manage and/or remove and dispose of hazardous and regulated materials in accordance with applicable federal, state, and local regulations, prior to renovation and/or demolition activities that may disturb these materials.
- Handle materials containing Wollastonite and/or glass fibers with appropriate protective equipment to prevent inhalation or ingestion of fibers and contact with skin and mucous membranes.
- Remove and dispose of all loose and flaking (poor condition) LCP that may be disturbed during renovation/demolition activities in accordance with applicable federal, state, and local regulations. Note that conditions of paint may have changed since the time of this survey.
- All waste and debris generated from the removal of LCP must either be recycled in accordance with applicable regulatory requirements, where available (e.g. metal components), or undergo Toxicity Characteristic Leaching Procedure (TCLP)-Lead analysis prior to disposal.
- Retain the services of a qualified consultant to monitor and inspect the removal activities to ensure compliance with specifications and applicable EPA, OSHA, and HIOSH regulations pertaining to the handling of asbestos-containing materials and lead-containing paint.
- Conduct air monitoring for asbestos fibers and lead dust by qualified personnel during abatement and general renovation/demolition activities of areas that were determined to contain these contaminants.
- Handle materials containing <1% asbestos with the same care and appropriate protective equipment as regulated asbestos containing materials to prevent inhalation or ingestion of fibers and contact with skin and mucous membranes.

# *Appendix* **I**

## **TABLES OF RESULTS**

**Table 1**  
**Maui District Office**  
**Asbestos Survey Results**

<i>Sample ID</i>	<i>Homogeneous Area</i>	<i>Material</i>	<i>Condition</i>	<i>Category</i>	<i>Friability</i>	<i>Asbestos Content</i>	<i>Estimated Quantity</i>
1901-M-A01	Floor throughout	1x1' speckled grey VFT	Damaged	Misc	N/A	ND	10,000 sq. ft.
1901-M-A02						ND	
1901-M-A03						ND	
1901-M-A04	Base of walls	4" grey cove base with mastic	Damaged	Misc	N/A	ND*	500 l.f
1901-M-A05						ND*	
1901-M-A06						ND*	
<b>1901-M-A07</b>	<b>Walls</b>	<b>Joint compound on drywall</b>	<b>Good</b>	<b>Misc</b>	<b>NF1</b>	<b>&lt; 1 to 2% Chrysotile</b>	<b>15,000 sq ft</b>
<b>1901-M-A08</b>						<b>NA</b>	
<b>1901-M-A09</b>						<b>NA</b>	
1901-M-A10	Walls	Concrete	Good	Misc	N/A	ND	10,000 sq ft
1901-M-A11						ND	
1901-M-A12						ND	
1901-M-A13	Door frames	White caulking	Good	Misc	N/A	ND	700 l.f.
1901-M-A14						ND	
1901-M-A15						ND	
<b>1901-M-A16</b>	<b>Interior window frames</b>	<b>Grey caulking</b>	<b>Good</b>	<b>Misc</b>	<b>NF1</b>	<b>20% Chrysotile</b>	<b>150 l.f.</b>
<b>1901-M-A17</b>						<b>NA</b>	
<b>1901-M-A18</b>						<b>NA</b>	
<b>1901-M-A19</b>	<b>Walls</b>	<b>Skim coat on CMU</b>	<b>Good</b>	<b>Misc</b>	<b>NF1</b>	<b>2% Chrysotile</b>	<b>10,000 sq. ft.</b>
<b>1901-M-A20</b>						<b>NA</b>	
<b>1901-M-A21</b>						<b>NA</b>	
1901-M-A22	Drop ceiling	2'x4' acoustic tile	Good	Misc	N/A	ND*	10,000 sq. ft.
1901-M-A23						ND*	
1901-M-A24						ND*	
1901-M-A25	Plenum	Duct insulation	Fair	TSI	N/A	ND*	20 l.f.
1901-M-A26						ND*	
1901-M-A27						ND*	
1901-M-A28	Various offices - Base of walls	4" brown cove base with mastic	Damaged	Misc	N/A	ND	500 l.f.
1901-M-A29						ND	
1901-M-A30						ND	
1901-M-A31	Floor	Concrete	Damaged	Misc	N/A	ND	2,000 sq. ft.
1901-M-A32						ND	
1901-M-A33						ND	
1901-M-A34	Men's Restroom	1x1" grey CFT	Good	Misc	N/A	ND	100 sq. ft.
1901-M-A35	S. entrance hallway					ND	
1901-M-A36						ND	
1901-M-A37	Men's Restroom	4x4" white CWT	Good	Misc	N/A	ND	100 sq. ft.
1901-M-A38	S. entrance hallway					ND	
1901-M-A39						ND	

ND = None Detected  
NA = Not Analyzed  
\*Wollastonite/Fibrous Glass

**Table 1**  
**Maui District Office**  
**Asbestos Survey Results**

<i>Sample ID</i>	<i>Homogeneous Area</i>	<i>Material</i>	<i>Condition</i>	<i>Category</i>	<i>Friability</i>	<i>Asbestos Content</i>	<i>Estimated Quantity</i>
1901-M-A40	S. Hallway Restrooms	White caulking	Damaged	Misc	N/A	ND	50 l.f.
1901-M-A41						ND	
1901-M-A42						ND	
1901-M-A43	S. Hallway Restrooms	White caulking	Damaged	Misc	N/A	ND	50 l.f.
1901-M-A44						ND	
1901-M-A45						ND	
<b>1901-M-A46</b>	<b>Shared gender restroom - Ceiling</b>	<b>Joint compound on drywall</b>	<b>Good</b>	<b>Misc</b>	<b>NF1</b>	<b>&lt; 1 to 2% Chrysotile</b>	<b>400 sq. ft.</b>
<b>1901-M-A47</b>						<b>NA</b>	
<b>1901-M-A48</b>						<b>NA</b>	
1901-M-A49	Lab/survey/ break area - Countertop	Beige caulking	Damaged	Misc	N/A	ND	50 l.f.
1901-M-A50						ND	
1901-M-A51						ND	
1901-M-A52	Ext. Walkway	Concrete	Damaged	Misc	N/A	ND	1,000 sq. ft.
1901-M-A53						ND	
1901-M-A54						ND	
1901-M-A55	Ext. Structural pillars	Concrete	Damaged	Misc	N/A	ND	750 sq. ft.
1901-M-A56						ND	
1901-M-A57						ND	
1901-M-A58	Ext. Walls	Textured concrete	Damaged	Misc	N/A	ND	2,000 sq. ft.
1901-M-A59						ND	
1901-M-A60						ND	
1901-M-A61	Ext. Extruding window sections	Concrete	Damaged	Misc	N/A	ND	300 sq. ft.
1901-M-A62						ND	
1901-M-A63						ND	
1901-M-A64	Ext. Mechanical enclosure	Decorative CMU	Good	Misc	N/A	ND	500 sq. ft.
1901-M-A65						ND	
1901-M-A66						ND	
1901-M-A67	Ext. Roof overhang	Plaster	Damaged	Misc	N/A	ND	400 sq. ft.
1901-M-A68						ND	
1901-M-A69						ND	
1901-M-A70	Women's restroom - Floor	1x1" grey CFT	Good	Misc	N/A	ND	100 sq. ft.
1901-M-A71						ND	
1901-M-A72						ND	
1901-M-A73	Women's restroom - Wall	4x4" white CWT	Good	Misc	N/A	ND	100 sq. ft.
1901-M-A74						ND	
1901-M-A75						ND	
1901-M-A76	Roof - Bolts	O-ring spacer with waterproofing	Damaged	Misc	N/A	ND	5 sq. ft.
1901-M-A77						ND	
1901-M-A78						ND	

ND = None Detected  
NA = Not Analyzed  
\*Wollastonite/Fibrous Glass

**Table 1**  
**Maui District Office**  
**Asbestos Survey Results**

<i>Sample ID</i>	<i>Homogeneous Area</i>	<i>Material</i>	<i>Condition</i>	<i>Category</i>	<i>Friability</i>	<i>Asbestos Content</i>	<i>Estimated Quantity</i>
1901-M-A79	Roof - Fall protection latch	White caulking	Damaged	Misc	N/A	ND	10 sq. ft.
1901-M-A80						ND	
1901-M-A81						ND	
1901-M-A82	Roof - Weather station	Black caulking	Damaged	Misc	N/A	ND	50 l.f.
1901-M-A83						ND	
1901-M-A84						ND	
1901-M-A85	Roof - Black solar panel	White caulking	Damaged	Misc	N/A	ND	100 l.f.
1901-M-A86						ND	
1901-M-A87						ND	
1901-M-A88	Roof - Vent	Black caulking	Damaged	Misc	N/A	ND	50 l.f.
1901-M-A89						ND	
1901-M-A90						ND	
1901-M-A91	Roof - Black solar panel pipes	Foam insulation	Damaged	TSI	N/A	ND	5 sq. ft.
1901-M-A92						ND	
1901-M-A93						ND	
1901-M-A94	Roof - Pipe penetrations	Black caulking	Damaged	Misc	N/A	ND	50 l.f.
1901-M-A95						ND	
1901-M-A96						ND	
1901-M-A97	Roof - Spine flashing	White caulking	Damaged	Misc	N/A	ND	100 l.f.
1901-M-A98						ND	
1901-M-A99						ND	
1901-M-A100	Ext. Mechanical area - Beams	Grout	Damaged	Misc	N/A	ND	20 l.f.
1901-M-A101						ND	
1901-M-A102						ND	
1901-M-A103	Ext. Mechanical enclosure	Concrete	Damaged	Misc	N/A	ND	50 sq. ft.
1901-M-A104						ND	
1901-M-A105						ND	
1901-M-A106	Ext. Mechanical enclosure	Foam insulation	Damaged	TSI	N/A	ND	20 sq. ft.
1901-M-A107						ND	
1901-M-A108						ND	
1901-M-A109	Ext. Mechanical enclosure	Grey caulking	Damaged	Misc	N/A	ND	20 l.f.
1901-M-A110						ND	
1901-M-A111						ND	
1901-M-A112	Lobby area	4" grey cove base with mastic	Good	Misc	N/A	ND	50 sq. ft.
1901-M-A113						ND	
1901-M-A114						ND	
1901-M-A115	Shared Restroom	1x1" grey CFT	Good	Misc	N/A	ND	50 sq. ft.
1901-M-A116						ND	
1901-M-A117						ND	
1901-M-A118	Shared Restroom	2"x4" grey CWT	Good	Misc	N/A	ND	25 l.f.
1901-M-A119						ND	
1901-M-A120						ND	

ND = None Detected  
NA = Not Analyzed  
\*Wollastonite/Fibrous Glass



**Table 2**  
**Maui District Office**  
**Lead Survey Results**

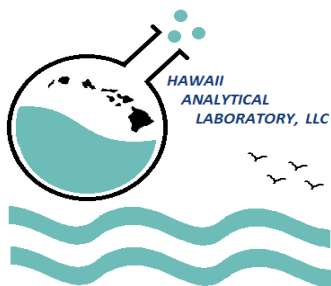
Sample ID	Int/Ext	Homogeneous Areas	Color	Substrate	Condition	Laboratory Reporting Limit (mg/kg)	Results (mg/kg)
1901-M-L01	Int	Throughout - Walls	Light pink	Drywall	Intact	44	BRL
1901-M-L02	Int	Throughout - Doors	Pink	Wood/Drywall	Intact	120	BRL
<i>1901-M-L03</i>	<i>Int</i>	<i>General office E. wall</i>	<i>Purple</i>	<i>Drywall</i>	<i>Intact</i>	<i>40</i>	<i>440*</i>
1901-M-L04	Int	Lobby area	White	Drywall	Intact	40	BRL
<i>1901-M-L05</i>	<i>Int</i>	<i>Throughout</i>	<i>Light yellow</i>	<i>Drywall/Concrete</i>	<i>Intact</i>	<i>44</i>	<i>210*</i>
1901-M-L06	Int	Throughout	Tan	Drywall/Concrete/CMU	Intact	40	BRL
1901-M-L07	Int	Throughout	Off-white	Drywall/Concrete/CMU	Intact	43	BRL
1901-M-L08	Int	Throughout - Walls	Light blue	Drywall/Concrete/CMU/wood	Intact	40	BRL
1901-M-L09	Int	Throughout - Doors	Blue	Wood/Drywall	Intact	56	BRL
<i>1901-M-L10</i>	<i>Int</i>	<i>Survey area E. wall</i>	<i>Navy blue</i>	<i>Drywall</i>	<i>Intact</i>	<i>46</i>	<i>290*</i>
1901-M-L11	Int	Manager's office E. wall	Brown	Drywall	Intact	40	BRL
1901-M-L12	Int	Manager's office walls	Salmon	Drywall	Intact	40	BRL
<i>1901-M-L13</i>	<i>Ext</i>	<i>Walls</i>	<i>Grey</i>	<i>Concrete/CMU</i>	<i>Fair</i>	<i>40</i>	<i>74*</i>
1901-M-L14	Ext	Structural pillars	Dark brown	Concrete	Fair	40	BRL
<i>1901-M-L15</i>	<i>Ext</i>	<i>Roof - Fascia</i>	<i>White</i>	<i>Wood</i>	<i>Poor</i>	<i>40</i>	<i>450*</i>
1901-M-L16	Ext	Roof - Vent	Faded white	Metal	Poor	40	BRL

**Table 3**  
**Maui District Office**  
**Arsenic Survey Results**

<i>Sample ID</i>	<i>Homogeneous Area</i>	<i>Material</i>	<i>Condition</i>	<i>Arsenic Content (mg/kg)</i>	<i>Estimated Quantity</i>
1091-M-AS01	Drop ceiling	Canec tile	Good	BRL	10000 sq.ft.

## *Appendix* **II**

### **LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS**



# Hawaii Analytical Laboratory ANALYTICAL REPORT

Wednesday, July 28, 2021

EnviroServices & Training Center, LLC  
505 Ward Avenue, Suite 202  
Honolulu HI 96814

**Phone Number:** (808)839-7222  
**Facsimile:** (808) 839-4455  
**Email:** -

**Lab Job No:** 202107064  
**Date Submitted:** 7/26/2021  
**Your Project:** 19-3501, Maui Highways SWMP, 7/23/21

## Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202143099	1901-M-A01		NONE DETECTED		None detected	Tar + vinyl	7/27/2021
	<u>Layer</u> Black mastic (limited)						
	Comments						
202143099	1901-M-A01		NONE DETECTED		None detected	Vinyl	7/27/2021
	<u>Layer</u> Gray vinyl floor tile						
	Comments						
202143100	1901-M-A02		NONE DETECTED		None detected	Vinyl + other	7/27/2021
	<u>Layer</u> Gray cove base						
	Comments						
202143100	1901-M-A02		NONE DETECTED		None detected	Binder + other	7/27/2021
	<u>Layer</u> Yellow mastic						
	Comments						
202143101	1901-M-A03		NONE DETECTED		None detected	Vinyl	7/27/2021
	<u>Layer</u> Gray vinyl floor tile						
	Comments						
202143102	1901-M-A04		NONE DETECTED		None detected	Vinyl + other	7/27/2021
	<u>Layer</u> Gray cove base						
	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
202143102	1901-M-A04		NONE DETECTED		Wollastonite (+/- optical sign)	5	Binder + other	7/27/2021
<u>Layer</u>	<u>Yellow mastic</u>							
Comments								
202143103	1901-M-A05		NONE DETECTED		None detected		Vinyl + other	7/27/2021
<u>Layer</u>	<u>Gray cove base</u>							
Comments								
202143103	1901-M-A05		NONE DETECTED		Wollastonite (+/- optical sign)	5	Binder + other	7/27/2021
<u>Layer</u>	<u>Yellow mastic</u>							
Comments								
202143104	1901-M-A06		NONE DETECTED		None detected		Vinyl + other	7/27/2021
<u>Layer</u>	<u>Gray cove base</u>							
Comments								
202143104	1901-M-A06		NONE DETECTED		Wollastonite (+/- optical sign)	5	Binder + other	7/27/2021
<u>Layer</u>	<u>Yellow / brown mastic</u>							
Comments								
202143105	1901-M-A07		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	15	Gypsum	7/27/2021
<u>Layer</u>	<u>White drywall</u>							
Comments								
202143105	1901-M-A07	Yes	Chrysotile	< 1	None detected		Calcite + paint	7/27/2021
<u>Layer</u>	<u>White joint compound / beige paint</u>							
Comments								
202143105	1901-M-A07	Yes	Chrysotile	< 1	Cellulose (undulose)	5	Calcite	7/27/2021
<u>Layer</u>	<u>White joint compound / paper</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
202143106	1901-M-A08		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	15 Gypsum	7/27/2021
<u>Layer</u>	<u>White drywall</u>						
Comments							
202143106	1901-M-A08	Yes	Chrysotile	2	None detected	Calcite + paint	7/27/2021
<u>Layer</u>	<u>White joint compound / beige paint</u>						
Comments							
202143107	1901-M-A09						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
Comments							
202143108	1901-M-A10		NONE DETECTED		None detected	Cementitious	7/27/2021
<u>Layer</u>	<u>Gray concrete</u>						
Comments							
202143108	1901-M-A10		NONE DETECTED		None detected	Gypsum + calcite + quartz + paint	7/27/2021
<u>Layer</u>	<u>White texture / white paint</u>						
Comments							
202143109	1901-M-A11		NONE DETECTED		None detected	Cementitious	7/27/2021
<u>Layer</u>	<u>Gray concrete</u>						
Comments							
202143109	1901-M-A11		NONE DETECTED		None detected	Gypsum + calcite + quartz + paint	7/27/2021
<u>Layer</u>	<u>White texture / white paint</u>						
Comments							
202143110	1901-M-A12		NONE DETECTED		None detected	Cementitious	7/27/2021
<u>Layer</u>	<u>Gray concrete</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
202143110	1901-M-A12		NONE DETECTED		None detected	Gypsum + calcite + quartz + paint	7/27/2021
<u>Layer</u>	<u>White texture / white paint</u>						
Comments							
202143111	1901-M-A13		NONE DETECTED		None detected	Binder + paint	7/27/2021
<u>Layer</u>	<u>White caulking / off-white paint</u>						
Comments							
202143112	1901-M-A14		NONE DETECTED		None detected	Binder + paint	7/27/2021
<u>Layer</u>	<u>White caulking / off-white paint</u>						
Comments							
202143113	1901-M-A15		NONE DETECTED		None detected	Binder + paint	7/27/2021
<u>Layer</u>	<u>White caulking / off-white paint</u>						
Comments							
202143114	1901-M-A16	Yes	Chrysotile	20	None detected	Binder + other	7/27/2021
<u>Layer</u>	<u>Gray caulking / off-white paint</u>						
Comments							
202143115	1901-M-A17						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
Comments							
202143116	1901-M-A18						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
Comments							
202143117	1901-M-A19		NONE DETECTED		None detected	Cementitious	7/27/2021
<u>Layer</u>	<u>Gray concrete</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
<b>202143117</b>	<b>1901-M-A19</b>	<b>Yes</b>	Chrysotile	<b>2</b>	None detected	Calcite + paint + other	7/27/2021
<u>Layer</u>	<u>Off-white skim coat / beige paint</u>						
Comments							
<b>202143118</b>	<b>1901-M-A20</b>						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
Comments							
<b>202143119</b>	<b>1901-M-A21</b>						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
Comments							
<b>202143120</b>	<b>1901-M-A22</b>		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	<b>70</b> Perlite + glass + other	7/27/2021
<u>Layer</u>	<u>Gray / white ceiling tile</u>						
Comments							
<b>202143121</b>	<b>1901-M-A23</b>		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	<b>70</b> Perlite + glass + other	7/27/2021
<u>Layer</u>	<u>Gray / white ceiling tile</u>						
Comments							
<b>202143122</b>	<b>1901-M-A24</b>		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	<b>70</b> Perlite + glass + other	7/27/2021
<u>Layer</u>	<u>Gray / white ceiling tile</u>						
Comments							
<b>202143123</b>	<b>1901-M-A25</b>		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	<b>20</b> Aluminum	7/27/2021
<u>Layer</u>	<u>Silver wrap</u>						
Comments							
<b>202143123</b>	<b>1901-M-A25</b>		NONE DETECTED		Fibrous glass (amorphous)	<b>&gt; 99</b> None detected	7/27/2021
<u>Layer</u>	<u>Yellow insulation</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
202143124	1901-M-A26		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	20	Aluminum	7/27/2021
<u>Layer</u>	<u>Silver wrap</u>							
Comments								
202143124	1901-M-A26		NONE DETECTED		Fibrous glass (amorphous)	> 99	None detected	7/27/2021
<u>Layer</u>	<u>Yellow insulation</u>							
Comments								
202143125	1901-M-A27		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	20	Aluminum	7/27/2021
<u>Layer</u>	<u>Silver wrap</u>							
Comments								
202143125	1901-M-A27		NONE DETECTED		Fibrous glass (amorphous)	> 99	None detected	7/27/2021
<u>Layer</u>	<u>Yellow insulation</u>							
Comments								
202143126	1901-M-A28		NONE DETECTED		None detected		Vinyl + other	7/27/2021
<u>Layer</u>	<u>Green cove base</u>							
Comments								
202143126	1901-M-A28		NONE DETECTED		None detected		Binder + other	7/27/2021
<u>Layer</u>	<u>Yellow mastic</u>							
Comments								
202143127	1901-M-A29		NONE DETECTED		None detected		Vinyl + other	7/27/2021
<u>Layer</u>	<u>Green cove base</u>							
Comments								
202143127	1901-M-A29		NONE DETECTED		None detected		Binder + other	7/27/2021
<u>Layer</u>	<u>Yellow mastic</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
202143128	1901-M-A30		NONE DETECTED		None detected	Vinyl + other	7/27/2021
<u>Layer</u>	<u>Green cove base</u>						
Comments							
202143128	1901-M-A30		NONE DETECTED		None detected	Binder + other	7/27/2021
<u>Layer</u>	<u>Yellow mastic</u>						
Comments							
202143129	1901-M-A31		NONE DETECTED		None detected	Cementitious + other	7/27/2021
<u>Layer</u>	<u>Gray concrete</u>						
Comments							
202143130	1901-M-A32		NONE DETECTED		None detected	Cementitious + other	7/27/2021
<u>Layer</u>	<u>Gray concrete</u>						
Comments							
202143131	1901-M-A33		NONE DETECTED		None detected	Cementitious + other	7/27/2021
<u>Layer</u>	<u>Gray concrete</u>						
Comments							
202143132	1901-M-A34		NONE DETECTED		None detected	Ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							
202143132	1901-M-A34		NONE DETECTED		None detected	Glass +	7/27/2021
<u>Layer</u>	<u>Gray grout</u>						
Comments							
202143132	1901-M-A34		NONE DETECTED		None detected	Cementitious + other	7/27/2021
<u>Layer</u>	<u>Gray mortar</u>						
Comments							

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Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202143132	1901-M-A34		NONE DETECTED		None detected	Binder	7/27/2021
<u>Layer</u>	<u>Off-white mastic</u>						
Comments							
202143133	1901-M-A35		NONE DETECTED		None detected	Ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							
202143133	1901-M-A35		NONE DETECTED		None detected	Glass +	7/27/2021
<u>Layer</u>	<u>Gray grout</u>						
Comments							
202143134	1901-M-A36		NONE DETECTED		None detected	Ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							
202143134	1901-M-A36		NONE DETECTED		None detected	Glass +	7/27/2021
<u>Layer</u>	<u>Gray grout</u>						
Comments							
202143135	1901-M-A37		NONE DETECTED		None detected	Glass +	7/27/2021
<u>Layer</u>	<u>Gray grout</u>						
Comments							
202143135	1901-M-A37		NONE DETECTED		None detected	Ceramic	7/27/2021
<u>Layer</u>	<u>White ceramic tile</u>						
Comments							
202143136	1901-M-A38		NONE DETECTED		None detected	Glass +	7/27/2021
<u>Layer</u>	<u>Gray grout</u>						
Comments							

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Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202143136	1901-M-A38		NONE DETECTED		None detected	Ceramic	7/27/2021
	<u>Layer</u> <u>White ceramic tile</u>						
	Comments						
202143137	1901-M-A39		NONE DETECTED		None detected	Glass +	7/27/2021
	<u>Layer</u> <u>Gray grout</u>						
	Comments						
202143137	1901-M-A39		NONE DETECTED		None detected	Ceramic	7/27/2021
	<u>Layer</u> <u>White ceramic tile</u>						
	Comments						
202143138	1901-M-A40		NONE DETECTED		None detected	Binder	7/27/2021
	<u>Layer</u> <u>White sealant material</u>						
	Comments						
202143139	1901-M-A41		NONE DETECTED		None detected	Binder	7/27/2021
	<u>Layer</u> <u>White sealant material</u>						
	Comments						
202143140	1901-M-A42		NONE DETECTED		None detected	Binder	7/27/2021
	<u>Layer</u> <u>White sealant material</u>						
	Comments						
202143141	1901-M-A43		NONE DETECTED		None detected	Binder	7/27/2021
	<u>Layer</u> <u>White caulking</u>						
	Comments						
202143142	1901-M-A44		NONE DETECTED		None detected	Binder	7/27/2021
	<u>Layer</u> <u>White caulking</u>						
	Comments						

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Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202143143	1901-M-A45		NONE DETECTED		None detected	Binder	7/27/2021
<u>Layer</u>	<u>White caulking</u>						
<u>Comments</u>							
202143144	1901-M-A46		NONE DETECTED		Cellulose (undulose) + fibrous glass (amorphous)	15 Gypsum	7/27/2021
<u>Layer</u>	<u>Tan drywall</u>						
<u>Comments</u>							
202143144	1901-M-A46	Yes	Chrysotile	2	None detected	Calcite + binder + paint	7/27/2021
<u>Layer</u>	<u>White joint compound (1) / paint</u>						
<u>Comments</u>							
202143144	1901-M-A46	Yes	Chrysotile	< 1	Cellulose (undulose)	20 Calcite + binder	7/27/2021
<u>Layer</u>	<u>White joint compound (2) / paper</u>						
<u>Comments</u>							
202143145	1901-M-A47						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
<u>Comments</u>							
202143146	1901-M-A48						
<u>Layer</u>	<u>NOT ANALYZED DUE TO STOP ANALYSIS</u>						
<u>Comments</u>							
202143147	1901-M-A49		NONE DETECTED		None detected	Binder + paint	7/27/2021
<u>Layer</u>	<u>White caulking / paint</u>						
<u>Comments</u>							
202143148	1901-M-A50		NONE DETECTED		None detected	Binder + paint	7/27/2021
<u>Layer</u>	<u>White caulking / paint</u>						
<u>Comments</u>							

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202143149	1901-M-A51		NONE DETECTED		None detected	Binder + paint	7/27/2021
	<u>Layer</u> <u>White caulking / paint</u>						
	Comments						
202143150	1901-M-A52		NONE DETECTED		None detected	Cementitious + other	7/27/2021
	<u>Layer</u> <u>Gray concrete</u>						
	Comments						
202143151	1901-M-A53		NONE DETECTED		None detected	Cementitious + other	7/27/2021
	<u>Layer</u> <u>Gray concrete</u>						
	Comments						
202143152	1901-M-A54		NONE DETECTED		None detected	Cementitious + other	7/27/2021
	<u>Layer</u> <u>Gray concrete</u>						
	Comments						
202143153	1901-M-A55		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray concrete / brown paint</u>						
	Comments						
202143154	1901-M-A56		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray concrete / brown paint</u>						
	Comments						
202143155	1901-M-A57		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray concrete / brown paint</u>						
	Comments						
202143156	1901-M-A58		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray cementitious material / paint</u>						
	Comments						

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**Email:** -

**Lab Job No:** 202107064  
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**Your Project:** 19-3501, Maui Highways SWMP, 7/23/21

## Bulk Asbestos Determination

Sample No.	Your Sample ID / Description	Asbestos Present?	Type	%v/v	Other Fibrous	%v/v Matrix	Date Analyzed
202143157	1901-M-A59		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray cementitious material / paint</u>						
	Comments						
202143158	1901-M-A60		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray cementitious material / paint</u>						
	Comments						
202143159	1901-M-A61		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray concrete / paint</u>						
	Comments						
202143160	1901-M-A62		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray concrete / paint</u>						
	Comments						
202143161	1901-M-A63		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray concrete / paint</u>						
	Comments						
202143162	1901-M-A64		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray cementitious material / paint</u>						
	Comments						
202143163	1901-M-A65		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray cementitious material / paint</u>						
	Comments						
202143164	1901-M-A66		NONE DETECTED		None detected	Cementitious + paint + other	7/27/2021
	<u>Layer</u> <u>Gray cementitious material / paint</u>						
	Comments						

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### Bulk Asbestos Determination

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202143165	1901-M-A67		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Gray plaster</u>						
Comments							
202143166	1901-M-A68		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Gray plaster</u>						
Comments							
202143167	1901-M-A69		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Gray plaster</u>						
Comments							
202143168	1901-M-A70		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Tan grout</u>						
Comments							
202143168	1901-M-A70		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>White ceramic tile</u>						
Comments							
202143168	1901-M-A70		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>White mortar</u>						
Comments							
202143169	1901-M-A71		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Tan grout</u>						
Comments							
202143169	1901-M-A71		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>White ceramic tile</u>						
Comments							

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## Bulk Asbestos Determination

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202143169	1901-M-A71		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>White mortar</u>						
	Comments						
202143170	1901-M-A72		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Tan grout</u>						
	Comments						
202143170	1901-M-A72		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
	<u>Layer</u> <u>White ceramic tile</u>						
	Comments						
202143170	1901-M-A72		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>White mortar</u>						
	Comments						
202143171	1901-M-A73		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Tan grout</u>						
	Comments						
202143171	1901-M-A73		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
	<u>Layer</u> <u>White ceramic tile</u>						
	Comments						
202143172	1901-M-A74		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Tan grout</u>						
	Comments						
202143172	1901-M-A74		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
	<u>Layer</u> <u>White ceramic tile</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
202143173	1901-M-A75		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Tan grout</u>						
Comments							
202143173	1901-M-A75		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>White ceramic tile</u>						
Comments							
202143174	1901-M-A76		NONE DETECTED		None detected	Calcite + binder	7/27/2021
<u>Layer</u>	<u>White/black caulks</u>						
Comments							
202143175	1901-M-A77		NONE DETECTED		None detected	Calcite + binder	7/27/2021
<u>Layer</u>	<u>White/black caulks</u>						
Comments							
202143176	1901-M-A78		NONE DETECTED		None detected	Calcite + binder	7/27/2021
<u>Layer</u>	<u>White/black caulks</u>						
Comments							
202143177	1901-M-A79		NONE DETECTED		None detected	Calcite + binder	7/27/2021
<u>Layer</u>	<u>Tan/white caulks</u>						
Comments							
202143178	1901-M-A80		NONE DETECTED		None detected	Binder + other	7/27/2021
<u>Layer</u>	<u>Tan caulk</u>						
Comments							
202143179	1901-M-A81		NONE DETECTED		None detected	Binder + other	7/27/2021
<u>Layer</u>	<u>Tan caulk</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
202143180	1901-M-A82		NONE DETECTED		None detected		Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143181	1901-M-A83		NONE DETECTED		None detected		Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143182	1901-M-A84		NONE DETECTED		None detected		Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143183	1901-M-A85		NONE DETECTED		None detected		Binder + other	7/27/2021
	<u>Layer</u> <u>White caulk</u>							
	Comments							
202143184	1901-M-A86		NONE DETECTED		None detected		Binder + other	7/27/2021
	<u>Layer</u> <u>White caulk</u>							
	Comments							
202143185	1901-M-A87		NONE DETECTED		None detected		Binder + other	7/27/2021
	<u>Layer</u> <u>White caulk</u>							
	Comments							
202143186	1901-M-A88		NONE DETECTED		Polypropylene (undulose)	5	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143187	1901-M-A89		NONE DETECTED		Polypropylene (undulose)	5	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</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
202143188	1901-M-A90		NONE DETECTED		Polypropylene (undulose)	5	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143189	1901-M-A91		NONE DETECTED		None detected		Foam	7/27/2021
	<u>Layer</u> <u>Black foam insulation</u>							
	Comments							
202143190	1901-M-A92		NONE DETECTED		None detected		Foam	7/27/2021
	<u>Layer</u> <u>Black foam insulation</u>							
	Comments							
202143191	1901-M-A93		NONE DETECTED		None detected		Foam	7/27/2021
	<u>Layer</u> <u>Black foam insulation</u>							
	Comments							
202143192	1901-M-A94		NONE DETECTED		Polypropylene (undulose)	5	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143193	1901-M-A95		NONE DETECTED		Polypropylene (undulose)	5	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143194	1901-M-A96		NONE DETECTED		Polypropylene (undulose)	5	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Black caulk</u>							
	Comments							
202143195	1901-M-A97		NONE DETECTED		None detected		Calcite + binder	7/27/2021
	<u>Layer</u> <u>White caulk</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
202143196	1901-M-A98		NONE DETECTED		None detected	Calcite + binder	7/27/2021
	<u>Layer</u> <u>White caulk</u>						
	Comments						
202143197	1901-M-A99		NONE DETECTED		None detected	Calcite + binder	7/27/2021
	<u>Layer</u> <u>White caulk</u>						
	Comments						
202143198	1901-M-A100		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Gray plaster</u>						
	Comments						
202143199	1901-M-A101		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Gray plaster</u>						
	Comments						
202143200	1901-M-A102		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Gray plaster</u>						
	Comments						
202143201	1901-M-A103		NONE DETECTED		None detected	Cementitious	7/27/2021
	<u>Layer</u> <u>Gray concrete</u>						
	Comments						
202143202	1901-M-A104		NONE DETECTED		None detected	Cementitious	7/27/2021
	<u>Layer</u> <u>Gray concrete</u>						
	Comments						
202143203	1901-M-A105		NONE DETECTED		None detected	Cementitious	7/27/2021
	<u>Layer</u> <u>Gray concrete</u>						
	Comments						

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202143204	1901-M-A106		NONE DETECTED		None detected	Foam	7/27/2021
	<u>Layer</u> <u>Black foam insulation</u>						
	Comments						
202143205	1901-M-A107		NONE DETECTED		None detected	Foam	7/27/2021
	<u>Layer</u> <u>Black foam insulation</u>						
	Comments						
202143206	1901-M-A108		NONE DETECTED		None detected	Foam	7/27/2021
	<u>Layer</u> <u>Black foam insulation</u>						
	Comments						
202143207	1901-M-A109		NONE DETECTED		None detected	Binder + other	7/27/2021
	<u>Layer</u> <u>Gray caulk</u>						
	Comments						
202143208	1901-M-A110		NONE DETECTED		None detected	Binder + other	7/27/2021
	<u>Layer</u> <u>Gray caulk</u>						
	Comments						
202143209	1901-M-A111		NONE DETECTED		None detected	Binder + other	7/27/2021
	<u>Layer</u> <u>Gray caulk</u>						
	Comments						
202143210	1901-M-A112		NONE DETECTED		None detected	Calcite + vinyl	7/27/2021
	<u>Layer</u> <u>Gray covebase</u>						
	Comments						
202143210	1901-M-A112		NONE DETECTED		None detected	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Off-white mastic</u>						
	Comments						

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202143211	1901-M-A113		NONE DETECTED		None detected	Calcite + vinyl	7/27/2021
	<u>Layer</u> <u>Gray covebase</u>						
	Comments						
202143211	1901-M-A113		NONE DETECTED		None detected	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Off-white mastic</u>						
	Comments						
202143212	1901-M-A114		NONE DETECTED		None detected	Calcite + vinyl	7/27/2021
	<u>Layer</u> <u>Gray covebase</u>						
	Comments						
202143212	1901-M-A114		NONE DETECTED		None detected	Calcite + binder	7/27/2021
	<u>Layer</u> <u>Off-white mastic</u>						
	Comments						
202143213	1901-M-A115		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
	<u>Layer</u> <u>Gray ceramic tile</u>						
	Comments						
202143213	1901-M-A115		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Gray grout</u>						
	Comments						
202143214	1901-M-A116		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
	<u>Layer</u> <u>Gray ceramic tile</u>						
	Comments						
202143214	1901-M-A116		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
	<u>Layer</u> <u>Gray grout</u>						
	Comments						

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202143215	1901-M-A117		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							
202143215	1901-M-A117		NONE DETECTED		None detected	Calcite + quartz	7/27/2021
<u>Layer</u>	<u>Gray grout</u>						
Comments							
202143216	1901-M-A118		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							
202143217	1901-M-A119		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							
202143218	1901-M-A120		NONE DETECTED		None detected	Calcite + ceramic	7/27/2021
<u>Layer</u>	<u>Gray ceramic tile</u>						
Comments							

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**General Comments**

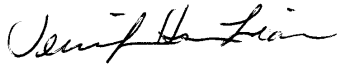
The bulk sample[s] analysis subject of this analytical report were conducted in general accordance with the procedures outlined in the United States Environmental Protection Agency's "Interim Method for the Determination of Asbestos in Bulk Insulation Samples" (EPA-600/M4-82-020, Dec. 1982) and / or "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. 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.

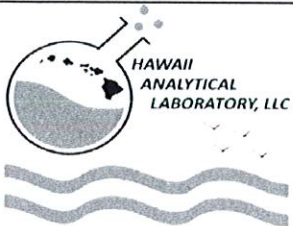
None Detected = asbestos was not observed in the sample. If trace amount of asbestos was detected below our quantifiable limits of 1.0%, <1% (trace) would be indicated and the asbestos type listed. Point counting, where applicable, are recommended to improve accuracy.



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

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☐ New Client?

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Company : ENVIROSERVICES & TRAINING CENTER, LLC  
Address\* : 505 Ward Ave. Suite #202  
Honolulu, HI 96814  
Phone / Cell No.\* : (808) 839-7222  
Report results to : Antone Gabriel  
via email or fax : agabriel@gotoetc.com, smarvin@gotoetc.com, bcarroll@gotoetc.com

Invoice To\* : Bianca Kim  
Company : ENVIROSERVICES & TRAINING CENTER, LLC  
Address\* : 505 Ward Ave. Suite #202  
Honolulu, HI 96814  
Phone / Cell No.\* : (808) 839-7222  
Purchase Order No. :  
Email Invoice To :

**Need Results By\*:**

- ☐ 5 Working Days (WD)  
☐ 4 WD  
☐ 3 WD  
☒ 2 WD  
☐ 24 hours  
☐ 6 hours or less  
☐ 4 hours or less  
☐ 1-2 hours

Site/Project Name:

**Maui Highways SWMP**

Client Project No.:

**19-3501**

Sampled By:

**B. Carroll**

Comments / Special Instructions:

☐ verbal results needed?

PLM POSITIVE STOP Instructions:

- ☒ Positive stop per SAMPLE  
☐ Positive stop per LAYER

**LAB USE ONLY**

Lab Report No.:

**202107064**

	Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1	1901-M-A01 to A03	7/23/2021	Bulk	202143099	PLM	202143100	202143101
2	1901-M-A04 to A06	7/23/2021	Bulk	202143102	PLM	202143103	202143104
3	1901-M-A07 to A09	7/23/2021	Bulk	202143105	PLM	202143106	202143107
4	1901-M-A10 to A12	7/23/2021	Bulk	202143108	PLM	202143109	202143110
5	1901-M-A13 to A15	7/23/2021	Bulk	202143111	PLM	202143112	202143113
6	1901-M-A16 to A18	7/23/2021	Bulk	202143114	PLM	202143115	202143116
7	1901-M-A19 to A21	7/23/2021	Bulk	202143117	PLM	202143118	202143119
8	1901-M-A22 to A24	7/23/2021	Bulk	202143120	PLM	202143121	202143122
9	1901-M-A25 to A27	7/23/2021	Bulk	202143123	PLM	202143124	202143125
10	1901-M-A28 to A30	7/23/2021	Bulk	202143126	PLM	202143127	202143128
11	1901-M-A31 to A33	7/23/2021	Bulk	202143129	PLM	202143130	202143131
12	1901-M-A34 to A36	7/23/2021	Bulk	202143132	PLM	202143133	202143134
Relinquished By (Print and Sign)		Date/Time		Received By (Print and Sign)		Date/Time	
S. Marvin		7/26/2021		Corin Forrest		07-26-21 1:13 pm	

Sample description can be paint chips, concrete, specific sample collection location, etc...

If matrix is 'soil', please specify if it is a FOREIGN SOIL SAMPLE (outside Hawaii) in the comment section.

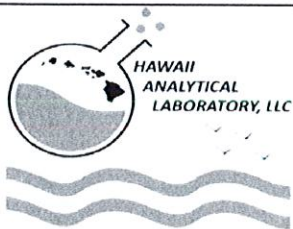
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☐ via FedEx ☐ via USPS ☐ via .....

Page: 1 of 4





3615 Harding Avenue, Suite 308  
Honolulu, HI 96816  
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www.analyzehawaii.com

☐ New Client?

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Site/Project Name:

**Maui Highways SWMP**

Client Project No.:

**19-3501**

Sampled By:

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Comments / Special Instructions:

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**LAB USE ONLY**

Lab Report No.:

**202107064**

	Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1	1901-M-A37 to A39	7/23/2021	Bulk	202143135	PLM	202143136	202143137
2	1901-M-A40 to A42	7/23/2021	Bulk	202143138	PLM	202143139	202143140
3	1901-M-A43 to A45	7/23/2021	Bulk	202143141	PLM	202143142	202143143
4	1901-M-A46 to A48	7/23/2021	Bulk	202143144	PLM	202143145	202143146
5	1901-M-A49 to A51	7/23/2021	Bulk	202143147	PLM	202143148	202143149
6	1901-M-A52 to A54	7/23/2021	Bulk	202143150	PLM	202143151	202143152
7	1901-M-A55 to A57	7/23/2021	Bulk	202143153	PLM	202143154	202143155
8	1901-M-A58 to A60	7/23/2021	Bulk	202143156	PLM	202143157	202143158
9	1901-M-A61 to A63	7/23/2021	Bulk	202143159	PLM	202143160	202143161
10	1901-M-A64 to A66	7/23/2021	Bulk	202143162	PLM	202143163	202143164
11	1901-M-A67 to A69	7/23/2021	Bulk	202143165	PLM	202143166	202143167
12	1901-M-A70 to A72	7/23/2021	Bulk	202143168	PLM	202143169	202143170

Relinquished By (Print and Sign)

**S. Marvin**

Date/Time

**7/26/2021**

Received By (Print and Sign)

**Corin Forrest**

Date/Time

**07-26-21 P01:13 IN**

Sample description can be paint chips, concrete, specific sample collection location, etc...

If matrix is 'soil', please specify if it is a FOREIGN SOIL SAMPLE (outside Hawaii) in the comment section.

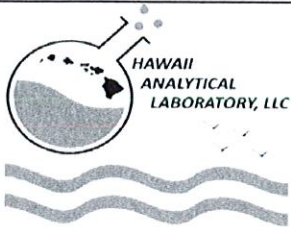
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Site/Project Name:

**Maui Highways SWMP**

Client Project No.:

**19-3501**

Sampled By:

**B. Carroll**

Comments / Special Instructions:

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**LAB USE ONLY**

Lab Report No.:

**202107064**

	Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1	1901-M-A73 to A75	7/23/2021	Bulk	202143171	PLM	202143172	202143173
2	1901-M-A76 to A78	7/23/2021	Bulk	202143174	PLM	202143175	202143176
3	1901-M-A79 to A81	7/23/2021	Bulk	202143177	PLM	202143178	202143179
4	1901-M-A82 to A84	7/23/2021	Bulk	202143180	PLM	202143181	202143182
5	1901-M-A85 to A87	7/23/2021	Bulk	202143183	PLM	202143184	202143185
6	1901-M-A88 to A90	7/23/2021	Bulk	202143186	PLM	202143187	202143188
7	1901-M-A91 to A93	7/23/2021	Bulk	202143189	PLM	202143190	202143191
8	1901-M-A94 to A96	7/23/2021	Bulk	202143192	PLM	202143193	202143194
9	1901-M-A97 to A99	7/23/2021	Bulk	202143195	PLM	202143196	202143197
10	1901-M-A100 to A102	7/23/2021	Bulk	202143198	PLM	202143199	202143200
11	1901-M-A103 to A105	7/23/2021	Bulk	202143201	PLM	202143202	202143203
12	1901-M-A106 to A108	7/23/2021	Bulk	202143204	PLM	202143205	202143206
Relinquished By (Print and Sign)		Date/Time		Received By (Print and Sign)		Date/Time	
S. Marvin		7/26/2021		Corin Forrest		07-26-21 P01:13	

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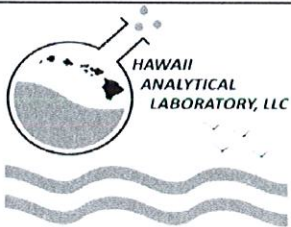
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Site/Project Name:

**Maui Highways SWMP**

Client Project No.:

**19-3501**

Sampled By:

**B. Carroll**

Comments / Special Instructions:

☐ verbal results needed?

PLM POSITIVE STOP Instructions:

- ☒ Positive stop per SAMPLE  
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**LAB USE ONLY**

Lab Report No.:

**202107064**

Lab ID

Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1901-M-A109 to A111	7/23/2021	Bulk	202143207	PLM	202143208	202143209
1901-M-A112 to A114	7/23/2021	Bulk	202143210	PLM	202143211	202143212
1901-M-A115 to A117	7/23/2021	Bulk	202143213	PLM	202143214	202143215
1901-M-A118 to A120	7/23/2021	Bulk	202143216	PLM	202143217	202143218

Relinquished By (Print and Sign)

**S. Marvin**

Date/Time

**7/26/2021**

Received By (Print and Sign)

**Corin Forrest**

Date/Time

**07-26-21 P01:13 IN**

Sample description can be paint chips, concrete, specific sample collection location, etc...

If matrix is 'soil', please specify if it is a FOREIGN SOIL SAMPLE (outside Hawaii) in the comment section.

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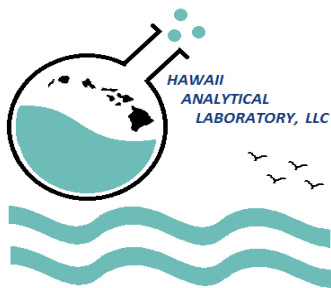
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☐ via FedEx

☒ via USPS

☐ via .....

Page: 4 of 4



## Hawaii Analytical Laboratory ANALYTICAL REPORT

Tuesday, July 27, 2021

EnviroServices & Training Center, LLC  
505 Ward Avenue, Suite 202  
Honolulu HI 96814

**Phone Number:** (808)839-7222  
**Facsimile:** (808) 839-4455  
**Email:** -

**Lab Job No:** 202107063  
**Date Submitted:** 7/26/2021  
**Your Project:** 19-3501, Maui Highways SWMP, 7/23/21

### Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202143083	1901-M-L01	< 44	mg/kg	7/27/2021
Comments	MRL = 44 mg/kg			
202143084	1901-M-L02	< 120	mg/kg	7/27/2021
Comments	MRL = 120 mg/kg			
202143085	1901-M-L03	440	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143086	1901-M-L04	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143087	1901-M-L05	210	mg/kg	7/27/2021
Comments	MRL = 44 mg/kg			
202143088	1901-M-L06	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143089	1901-M-L07	< 43	mg/kg	7/27/2021
Comments	MRL = 43 mg/kg			
202143090	1901-M-L08	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			

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

EnviroServices & Training Center, LLC  
505 Ward Avenue, Suite 202  
Honolulu HI 96814

**Phone Number:** (808)839-7222  
**Facsimile:** (808) 839-4455  
**Email:** -

**Lab Job No:** 202107063  
**Date Submitted:** 7/26/2021  
**Your Project:** 19-3501, Maui Highways SWMP, 7/23/21

### Total Lead (paint chips)

NIOSH Method: 7082m LEAD by FAAS

Sample No.	Your Sample ID / Description	Results	Units	Date Analyzed
202143091	1901-M-L09	< 56	mg/kg	7/27/2021
Comments	MRL = 56 mg/kg			
202143092	1901-M-L10	290	mg/kg	7/27/2021
Comments	MRL = 46 mg/kg			
202143093	1901-M-L11	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143094	1901-M-L12	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143095	1901-M-L13	74	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143096	1901-M-L14	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143097	1901-M-L15	450	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			
202143098	1901-M-L16	< 40	mg/kg	7/27/2021
Comments	MRL = 40 mg/kg			

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**Email:** -

**Lab Job No:** 202107063  
**Date Submitted:** 7/26/2021  
**Your Project:** 19-3501, Maui Highways SWMP, 7/23/21

---

**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.

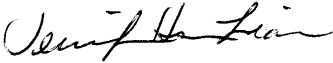
**Results and Symbols Definitions**

> 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.

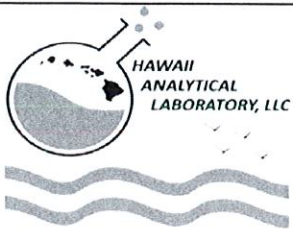


---

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

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Site/Project Name:

**Maui Highways SWMP**

Client Project No.:

**19-3501**

Sampled By:

**D. Holliman**

Comments / Special Instructions:

☐ verbal results needed?

PLM POSITIVE STOP Instructions:

- ☐ Positive stop per SAMPLE  
☐ Positive stop per LAYER

**LAB USE ONLY**

Lab Report No.:

**202107063**

	Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1	1901-M-L01	7/23/2021	Paint Chip		Lead		202143083
2	1901-M-L02	7/23/2021	Paint Chip		Lead		202143084
3	1901-M-L03	7/23/2021	Paint Chip		Lead		202143085
4	1901-M-L04	7/23/2021	Paint Chip		Lead		202143086
5	1901-M-L05	7/23/2021	Paint Chip		Lead		202143087
6	1901-M-L06	7/23/2021	Paint Chip		Lead		202143088
7	1901-M-L07	7/23/2021	Paint Chip		Lead		202143089
8	1901-M-L08	7/23/2021	Paint Chip		Lead		202143090
9	1901-M-L09	7/23/2021	Paint Chip		Lead		202143091
10	1901-M-L10	7/23/2021	Paint Chip		Lead		202143092
11	1901-M-L11	7/23/2021	Paint Chip		Lead		202143093
12	1901-M-L12	7/23/2021	Paint Chip		Lead		202143094
Relinquished By (Print and Sign)		Date/Time		Received By (Print and Sign)		Date/Time	
S. Marvin		7/26/2021		Corin Forrest		07-26-21 P01:12	

Sample description can be paint chips, concrete, specific sample collection location, etc...

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☐ 1-2 hours

Site/Project Name:

## Maui Highways SWMP

Client Project No.:

19-3501

Sampled By:	
-------------	--

D. Holliman

Comments / Special Instructions:

☐ verbal results needed?

PLM POSITIVE STOP Instructions:

- ☐ Positive stop per SAMPLE
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**LAB USE ONLY**

Lab Report No.:

202107063

Lab ID

Sample Identification / Description* (Maximum of 30 Characters)	Date Sampled* (mm/dd/yy)	Collection Medium	Sample Area / Air Volume	Analysis Requested*	Method Reference	Lab ID
1901-M-L13	7/23/2021	Paint Chip		Lead		202143095
1901-M-L14	7/23/2021	Paint Chip		Lead		202143096
1901-M-L15	7/23/2021	Paint Chip		Lead		202143097
1901-M-L16	7/23/2021	Paint Chip		Lead		202143098
Relinquished By (Print and Sign)		Date/Time		Received By (Print and Sign)		Date/Time
S. Maryin		7/26/2021		Corin Forrest		07-26-21 P01:12

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If matrix is 'soil', please specify if it is a FOREIGN SOIL SAMPLE (outside Hawaii) in the comment section.

**All samples submitted are subject to Hawaii Analytical Laboratory terms and conditions.**

**\*Required fields, failure to complete these fields may result in a delay in your samples being processed.**

☐ via FedEx    ☐ via USPS    ☐ via .....

Page: 2 of 2



July 28, 2021

Antone Gabriel

**EnviroServices & Training Center, LLC**

505 Ward Avenue, Suite 202

Honolulu, HI 96814



**NVL Batch # 2113314.00**

**RE: Total Metal Analysis**  
**Method: EPA 6010 (price per analyte) <paint>**  
**Item Code: ICP-M2**

Client Project: 19-3501  
Location: Maui Highways

Dear Mr. Gabriel,

NVL Labs received 1 sample(s) for the said project on 7/27/2021. Preparation of these samples was conducted following protocol outlined in EPA 3051/6010D, unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 6010 (price per analyte) <paint> . The results are usually expressed in mg/kg and ppm. Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Lab Supervisor



Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)  
4708 Aurora Avenue North | Seattle, WA 98103-6516

# Analysis Report

## Total Metals



Client: EnviroServices & Training Center, LLC  
Address: 505 Ward Avenue, Suite 202  
Honolulu, HI 96814

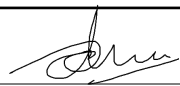
**Attention: Mr. Antone Gabriel**  
Project Location: Maui Highways

**Batch #: 2113314.00**  
Matrix: Bulk  
Method: EPA 3051/6010D  
Client Project #: 19-3501  
Date Received: 7/27/2021  
Samples Received: 1  
Samples Analyzed: 1

Lab ID	Client Sample #	Elements	Sample wt (g)	RL mg / kg	Results in mg / kg	Results in ppm
21087264	1901-M-As01	Arsenic (As)	0.3075	13.0	< 13.0	< 13.0

Sampled by: Client  
Analyzed by: Yasuyuki Hida  
Reviewed by: Shalini Patel

Date Analyzed: 07/28/2021  
Date Issued: 07/28/2021

  
Shalini Patel, Lab Supervisor

mg/ kg = Milligrams per kilogram  
ppm = Parts per million

RL = Reporting Limit  
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

# METAL LABORATORY SERVICES



**Company** EnviroServices & Training Center, LLC  
**Address** 505 Ward Avenue, Suite 202  
 Honolulu, HI 96814  
**Project Manager** Mr. Antone Gabriel  
**Phone** (808) 839-7222  
**NVL Batch Number** 2113314.00  
**TAT** 2 Days **AH** No  
**Rush TAT**  
**Due Date** 7/29/2021 **Time** 10:30 AM  
**Email** agabriel@gotoetc.com  
**Fax** (808) 839-4455

**Project Name/Number:** 19-3501 **Project Location:** Maui Highways

**Subcategory** Inductively Coupled Plasma (ICP) - Group Tests

**Item Code** ICP-M2 EPA 6010 (price per analyte) <paint>

**Metals** Arsenic (As)

**Total Number of Samples** 1

**Rush Samples**

	Lab ID	Sample ID	Description	A/R
1	21087264	1901-M-As01		A

	Print Name	Signature	Company	Date	Time
<b>Sampled by</b>	Client				
<b>Relinquished by</b>	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
<b>Received by</b>	Fatima Khan		NVL	7/27/21	1030
<b>Analyzed by</b>	Yasuyuki Hida		NVL	7/28/21	
<b>Results Called by</b>					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

**Special Instructions:**

Date: 7/27/2021  
 Time: 11:03 AM  
 Entered By: Fatima Khan



# METALS CHAIN OF CUSTODY

Turn Around Time

q 2 Hour

q 4 Hours

q 24 Hours

q 2 Days

q 5 Days

Please call for

# 2113314

Laboratory | Management | Training

Company: ENVIROSERVICES & TRAINING CENTER, LLC

Project Manager: Antone Gabriel

Address: 505 Ward Ave. Suite #202 Honolulu HI, 96814

Cell: (808) 839-7222

Email: agabriel@gotoetc.com

Phone: (808) 839-7222

Fax: (808) 839-4455

Project Name/Number: 19-3501

Project Location: Maui Highways

q Total Metals

q TCLP

q FAA (ppm)

q ICP (PPM)

q GFAA (ppb)

q CVAA (ppb)

q Air Filter

q Paint Chips (cm)

q Drinking Water

q Other Bulk

q Paint Chips (%)

q Dust Wipes

q Waste Water

RCRA 8

q Barium

q Arsenic

q Selenium

q Chromium

q Mercury

q Cadmium

q Silver

q Lead

RCRA 11

q Copper

q Zinc

q Other

Reporting Instructions

Call ( )

Fax ( )

q Email: agabriel@gotoetc.com, smarvin@gotoetc.com,  
bcarroll@gotoetc.com, dholliman@gotoetc.com

Total Number of Samples: 1

Sample ID	Description	Time	L/min
1	1901-M-As01		
2	Ceiling tile		
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

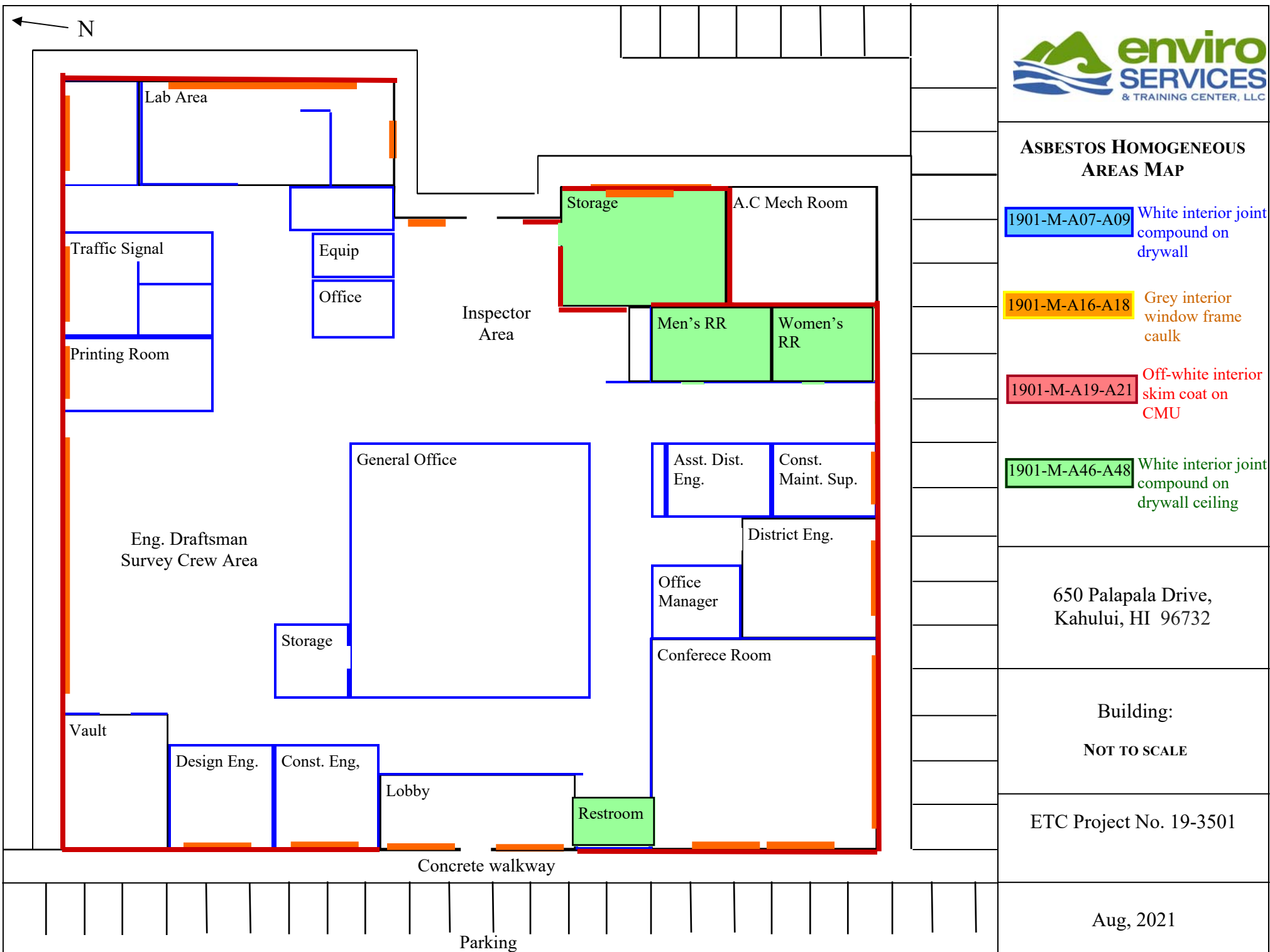
Print Name	Signature	Company	Date	Time
S. MARVIN	[Signature]	ETC	7/23/2021	
S. MARVIN	[Signature]	ETC	7/23/2021	

## Office Use Only

Print Name	Signature	Company	Date	Time
[Signature]	[Signature]	ETC	7/27/21	10:30am
Received by				
Analyzed by				
Called by				
Faxed/Email by				

# *Appendix* **III**

## **HOMOGENEOUS AREA MAP**



## ASBESTOS HOMOGENEOUS AREAS MAP

1901-M-A07-A09 White interior joint compound on drywall

1901-M-A16-A18 Grey interior window frame caulk

1901-M-A19-A21 Off-white interior skim coat on CMU

1901-M-A46-A48 White interior joint compound on drywall ceiling

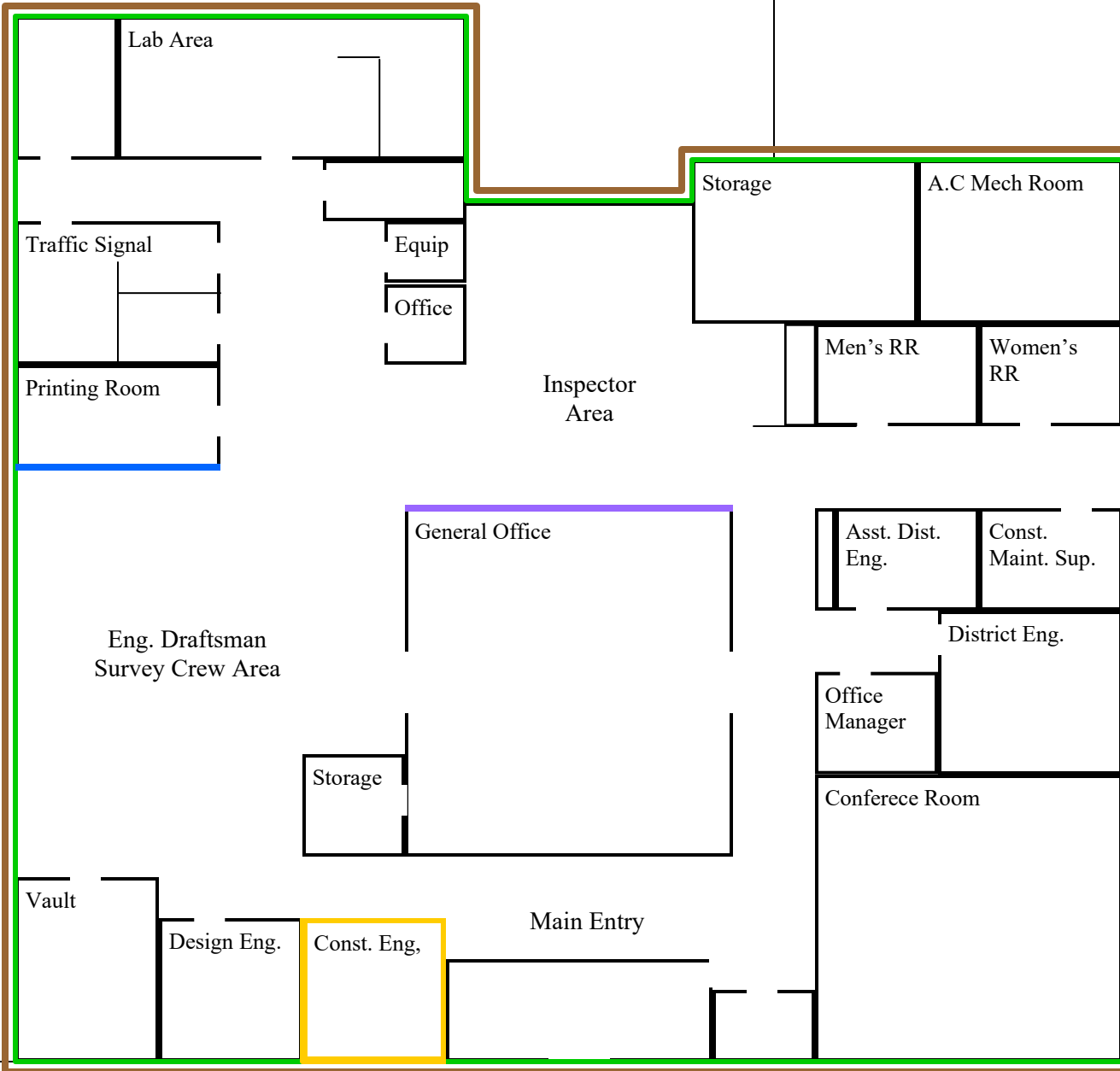
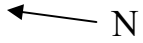
650 Palapala Drive,  
Kahului, HI 96732

Building:  
NOT TO SCALE

ETC Project No. 19-3501

Aug, 2021





### LEAD PAINT HOMOGENEOUS AREAS MAP

- 1901-M-L03 Purple int. paint on drywall wall
- 1901-M-L05 Light yellow int. paint on drywall walls
- 1901-M-L10 Navy blue int. paint on drywall wall
- 1901-M-L13 Grey ext. paint on concrete and CMU walls
- 1901-M-L15 White ext. paint on wooden fascia

650 Palapala Drive,  
Kahului, HI 96732

Building:  
NOT TO SCALE

ETC Project No. 19-3501

Aug, 2021