ATTACHMENT 1 HAZARDOUS MATERIALS SURVEY REPORT

HAZARDOUS MATERIALS SURVEY REPORT

Kamehameha Highway – Kaipapau Stream Bridge Replacement Abandoned Single Story Structure Hauula, Oahu, Hawaii TMK: 5-4-11:21

The hazardous materials survey was recently completed by EnviroServices & Training Center, LLC (ETC) at the abandoned single story structure located on Kamehameha Highway adjacent to the Kaipapau Stream Bridge in Hauula, Oahu, Hawaii, identified by TMK: 5-4-11:21.

The following are the Scope of Work:

- Collected a total of forty-five (45) bulk asbestos samples from the Subject Location in accordance with EPA guidelines;
- Submitted the forty-five (45) bulk samples to NVL Laboratories, Inc. for analysis by polarized light microscopy (PLM) to determine asbestos type and content;
- Collected sixty-four (64) samples utilizing a portable X-Ray Fluorescence (XRF) analyzer to evaluate the lead content in the paint at the Subject Location;
- Collected one (1) bulk sample of suspected arsenic containing wood fiberboard from the Subject Location in accordance with EPA guidelines;
- Submitted the one (1) suspected arsenic containing sample to NVL Laboratories, Inc. for analysis via graphite furnace atomic absorption spectroscopy for total arsenic content;
- Visually inspected the Subject Location for mercury containing lamps and PCB containing fluorescent light ballasts; and
- Provided this report documenting ETC's methodologies, findings and recommendations.



WORK ACTIVITIES

Asbestos

On October 15, 2010, ETC personnel collected forty-five (45) samples of suspect materials from the Subject Location for asbestos analysis. These samples were collected in accordance with EPA guidelines and recommendations.

Each suspect asbestos containing material was first wetted with water. A small piece was then carefully cut out and placed in a labeled re-sealable plastic bag. The sampling equipment was cleaned between each sample collection to avoid cross-contamination between samples.

All samples were properly logged and recorded following strict chain of custody procedure and submitted to NVL Laboratories, Inc. (NVL) for analysis by polarized light microscopy in accordance with EPA Method 600/R-93/116. NVL is accredited for bulk asbestos analysis through successful participation in the National Voluntary Lab Accreditation Program (NVLAP).

Lead Paint

XRF Analyzer

ETC personnel collected and analyzed sixty-four (64) paint samples from the Subject Location using a portable XRF spectrum analyzer, in accordance with the EPA and HUD guidelines and recommendations.

The XRF measurements were collected using an EDAX MAP4 portable XRF spectrum analyzer. This portable XRF uses a 10-millicurie cobalt 57 (CO⁵⁷) radioactive source that, when exposed to lead containing building components, causes lead to emit X-rays with a characteristic frequency or energy. The intensity of the radiation is then measured by the instrument and reported as lead in milligrams per square centimeter (mg/cm²). The MAP4 measures both the L-shell X-ray and K-shell X-ray lines of lead. The K-shell X-ray lines are used to determine the level of lead in the paint. The EDAX MAP4 portable XRF spectrum analyzer has a detection limit of 0.05 mg/cm², with a maximum precision of +/- 0.05 mg/cm², and an accuracy of +/- 5.0% at 1.0 mg/cm².

Measurements were collected by placing the MAP 4 faceplate flat against the sample surface and then pulling the trigger. The trigger is then held until a K-shell reading is displayed at a 95% confidence level.

XRF measurement data were interpreted as follows:

- Positive results (lead-based paint) were determined when the K-shell results revealed a lead concentration equal to or greater than 1.0 mg/cm².
- Negative results (non lead-based paint) were determined when the K-shell results revealed a lead concentration at less than 1.0 mg/cm².

Quality control was accomplished by conducting validation checks. Such checks require the XRF Operator to collect a measurement from a calibration sample with a known concentration of lead. The manufacturer recommends that such measurements be within \pm 0.15 of the known concentration. These quality control procedures were conducted at the beginning, and at the end of the inspection. All measurements were within the manufacturer's guidelines.

Hazardous Materials Survey Report Kamehameha Highway — Kaipapau Stream Bridge Replacement Abandoned Single Story Structure Hauula, Oahu, Hawaii TMK: 5-4-11:21 October 22, 2010 Page 2



Arsenic

ETC personnel collected one (1) sample of particle wood board sink material suspected to contain arsenic from the Subject Location. The suspected arsenic containing sample was collected in general accordance with EPA guidelines and recommendations.

The suspected arsenic containing materials were wetted with amended water before sample collection. A small piece was 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.

Miscellaneous Hazardous Materials

ETC made visual observations to inventory and identify the presence of assumed mercury-containing fluorescent light bulbs and assumed PCB containing ballasts. No suspect mercury containing fluorescent lights were observed at the Subject Location. No suspect PCB containing fluorescent light ballasts were observed at the Subject Location.



RESULTS Asbestos

Forty-five (45) samples were taken during the course of this investigation. The results of this analysis are summarized in the attached Table 1. Laboratory analysis did identify levels of asbestos above the regulatory limit of 1% in the vent/pipe sealant material located on the roof of the Subject Location. Table 1 below summarizes these results. The attached Map 1 lists identified asbestos-containing materials.

TABLE 1 ASBESTOS SAMPLE RESULTS ABANDONED SINGLE STORY STRUCTURE KAIPAPAU STREAM BRIDGE REPLACEMENT HAUULA, OAHU, HAWAII

Sample ID	Location	Material	Color	Friability	Est. Amt. of Material	Asbestos Content
A-1	_					None Detected
A-2	Exterior Roof	Roofing Material	Black/ Various	Not Applicable (N/A)	1200 sq. ft.	None Detected
A-3	Koor		v urious (rvr1)			None Detected
A-4						Chrysotile 6%
A-5	Exterior Roof	Vent/ Pipe Sealant Material	Black/Grey	Category II Non-Friable	10 sq. ft.	Chrysotile 6%
A-6	Koor	Dealant Water lat		ron-riable		Chrysotile 6%
A-7						None Detected
A-8	Exterior Roof	Sealant Material on Roof	Grey	ŅΑ	15 sq. ft.	None Detected
A-9	ROOL	Oli Pader		-		None Detected
A-10					•	None Detected
A-11	Interior Kitchen	Tile Grouting and Mastic	Grey	N/A	25 sq. ft.	None Detected
A-12	KIMICI	19218010		- Land		None Detected
A-13						None Detected
A-14	Interior Kitchen	Sink and Counter Sealant	White	N/A	5 linear ft.	None Detected
A-15	Kitchon	Bearant				None Detected
A-16			., .			None Detected
A-17	Interior	Door Sealant Material	Various Painted	N/A	100 linear ft.	None Detected
A-18		Niaiciui	1 amos			None Detected
A-19						None Detected
A-20	Interior	Tile and Mastic under Carpet	Red/Beige	N/A	400 sq. ft.	None Detected
A-21		under Carpet				None Detected
A-22						None Detected
A-23	Interior	Electrical Wire Wrap	Black	N/A	N/A - Throughout	None Detected
A-24		, , , rah				None Detected
A-25						None Detected
A-26	Interior/ Exterior	Window Sealant	Various Painted	N/A	300 linear ft.	None Detected
A-27	LAWIN		I diffico			None Detected

Hazardous Materials Survey Report Kamehameha Highway — Kaipapau Stream Bridge Replacement Abandoned Single Story Structure Hauula, Oahu, Hawaii TMK: 5-4-11:21



TABLE 1 - CONTINUED ASBESTOS SAMPLE RESULTS

ABANDONED SINGLE STORY STRUCTURE KAIPAPAU STREAM BRIDGE REPLACEMENT

HAUULA, OAHU, HAWAII

Sample ID	Location	Material	Color	Friability	Est. Amt. of Material	Asbestos Content	
A-28							None Detected
A-29	Interior	Shower and Tile mastic	Various	N/A	25 sq. ft.	None Detected	
A-30		Museo				None Detected	
A-31	·					None Detected	
A-32	Interior	Wall Plaster on Wood	Various Painted	N/A	40 sq. ft.	None Detected	
A-33		11 000	2 121210474			None Detected	
A-34		Interior Shower/Tub Bathroom Sealant				None Detected	
A-35			White	N/A	15 linear ft.	None Detected	
A-36	Datinoon						None Detected
A-37		Wall Sealant Material				None Detected	
A-38	Interior		Various Painted	N/A	250 linear ft.	None Detected	
A-39		1710001101	- Lamaca			None Detected	
A-40				A STATE OF THE STA		None Detected	
A-41	Exterior	CMU/Concrete Material	Grey	N/A	400 sq. ft.	None Detected	
A-42		IAIGICI IQI			the state of the s	None Detected	
A-43			l	STATE OF THE PROPERTY OF THE P		None Detected	
A-44	Exterior	Window Sealant	Various Painted	Various Pointed	N/A	200 linear ft.	None Detected
A-45						None Detected	

Lead Paint

XRF measurements indicated that twenty-six (26) painted surfaces of the Subject Location **did** contain lead in excess of the EPA/HUD guideline of 1.0 mg/cm² defining Lead-Based Paint (LBP). All remaining XRF sampled surfaces of the Subject Site contained detectable levels of lead at levels less than 1.0 mg/cm² and are considered to be Lead Containing Paint (LCP). The attached Table 2 lists these results.



Arsenic

The one (1) arsenic sample collected was found to have no arsenic content above the reporting limit and is not considered to be arsenic containing. Table 3 below summarizes this result.

TABLE 3 ARSENIC SAMPLE RESULTS ABANDONED SINGLE STORY STRUCTURE KAIPAPAU STREAM BRIDGE REPLACEMENT HAUULA, OAHU, HAWAII

CHARLES STATE OF THE PARTY OF T	Sample ID	Area	Structure	Condition	Color	Arsenic (ppm)*
	ARS-1	Kitchen	Particle Wood Counter Top	Роог	White	< 20.0

* <# = Not detected above the detection limit of # for this sample.

Miscellaneous Hazardous Materials Inspection

No suspect mercury containing fluorescent lights were observed at the Subject Location.

No suspect PCB containing fluorescent light ballasts were observed at the Subject Location.



RECOMMENDATIONS

In summary, asbestos containing materials (ACM) and surfaces coated in lead based paint (LBP) and lead containing paint (LCP) were observed. Based on ETC's visual inspection of the facility and laboratory data, ETC recommends the following:

- Manage and/or remove and dispose of hazardous and regulated materials in accordance with applicable local, state, and federal regulations, prior to renovation and/or demolition activities that may disturb these materials.
- Any non-friable ACM which could be crumbled and pulverized during renovation/demolition activities must be removed and disposed of by a qualified asbestos abatement contractor. In addition, the services of a qualified consultant should be obtained to monitor and inspect the removal activities to ensure compliance with applicable Environmental Protection Agency (EPA), Occupational Safety and Health Administration (OSHA), and Hawaii Occupational Safety and Health (HIOSH) regulations pertaining to the handling of asbestos containing material.
- Remove and dispose of all lead based paint and loose and flaking (poor condition) leadcontaining paint that may be disturbed during renovation/demolition activities in accordance
 with applicable local, state, and federal regulations. Note that conditions of paint may have
 changed since the time of this survey.
- Any abatement and demolition contractor(s) must take appropriate measures to comply with applicable EPA, OSHA and HIOSH regulations pertaining to the handling of asbestos and lead containing materials and worker protection. Note that OSHA and HIOSH regulate activities that disturb paint which contain any detectable concentration of lead.
- Have air monitoring conducted for airborne asbestos fibers by a State of Hawaii certified
 Project Monitor and airborne lead by qualified personnel during any lead and/or asbestos
 abatement and general renovation/demolition activities of areas that were determined to
 contain these contaminants.

October 22, 2010

Page 7



LIMITATIONS

ETC's findings, conclusions, and recommendations are based on research, site observations, and/or analytical data, which were gathered and accessible at the time and location of this project. We make no guarantee or warranty, either expressed or implied, except that our services are consistent with good commercial or customary practices designed to conform with acceptable industry standards. ETC has completed this project in accordance with the Guidelines, Standards, and Code of Ethics adopted by members of the American Industrial Hygiene Association, and American Conference of Governmental Industrial Hygienists.

Attachment:

Table 2: XRF Survey Results

Map 1

Laboratory Results

XRF SURVEY RESULTS

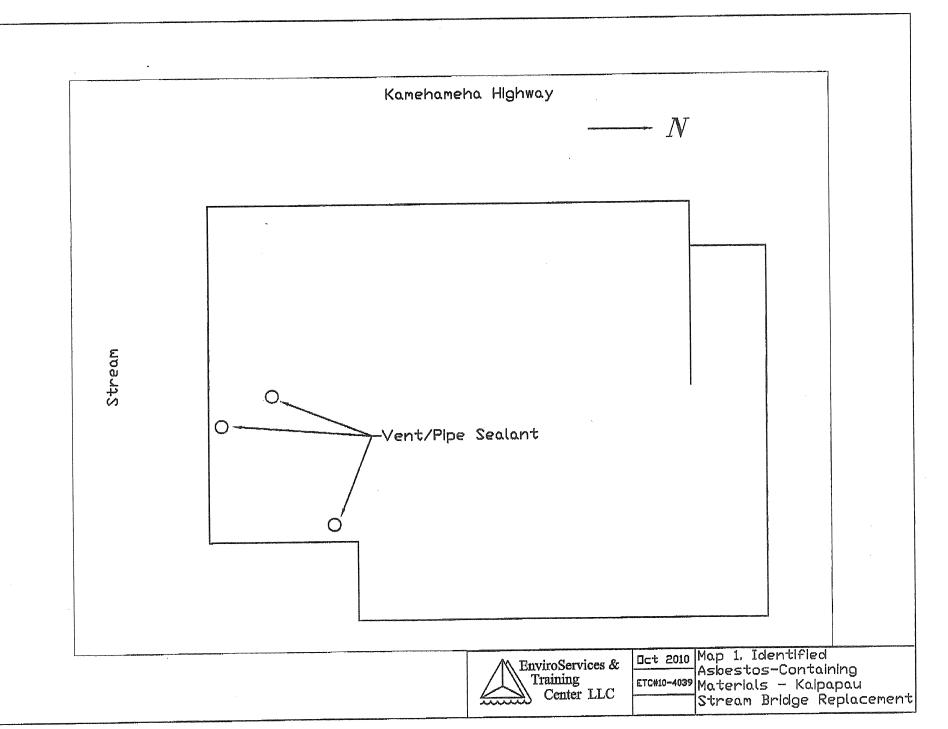
Abandoned Single Story Structure Kaipapau Stream Bridge Replacement

Sample		Interior/					~ 1	Pb Conc.
ID	Area	Exterior	Side	Structure	Substrate	Condition	Color	(mg/cm ²)
			Start Calib	oration - I				1.24
			Start Calib	ration - 2				1.18
Start Calibration - 3							1.17	
L-1	Kitchen	Interior	North	Wall	Wood	Poor	Green	7.55
L-2	Kitchen	Interior	South	Wall	Wood	Poor	Green	6.51
L-3	Kitchen	Interior	West	Wall	Wood	Poor	Beige	3.25
L-4	Kitchen	Interior	Ceiling	Ceiling	Wood	Poor	Beige	1.22
L-5	Bathroom	Interior	East	Wall	Wood	Poor	Pink	7.35
L-6	Bathroom	Interior	West	Wall	Wood	Poor	Green	2.51
L-7	Bathroom	Interior	South	Wall	Wood	Poor	Green	3.16
L-8	Bathroom	Interior	North	Wall	Wood	Poor	Green	0.55
L-9	Bathroom	Interior	Ceiling	Ceiling	Wood	Poor	Blue	0.39
L-10	Bathroom	Interior	North	Door	Wood	Poor	Brown	0.61
L-11	Bathroom	Interior	North	Door Jamb	Wood	Poor	Brown	0.17
L-12	Living Room	Interior	North	Wall	Wood	Poor	Beige	2.56
L-13	Living Room	Interior	East	Wall	Wood	Poor	Beige	3.15
L-14	Living Room	Interior	South	Wall	Wood	Poor	Beige	1.31
L-15	Living Room	Interior	West	Wall	Wood	Poor	Beige	0.76
L-16	Living Room	Interior	North	Trim Wall	Wood	Poor	Green	0.55
L-17	Living Room	Interior	East	Trim Wall	Wood	Poor	Green	0.36
L-18	Living Room	Interior	West	Trim Wall	Wood	Poor	Green	0.26
L-19	Room #2	Interior	North	Wall	Wood	Poor	Beige	2.61
L-20	Room #2	Interior	East	Wall	Wood	Poor	Beige	3.65
L-21	Room #2	Interior	South	Wall	Wood	Poor	Beige	1.75
L-22	Room #2	Interior	West	Wall	Wood	Poor	Beige	2.51
L-23	Room #2	Interior	South	Window Frame	Wood	Poor	Brown	0.65
L-24	Room #2	Interior	West	Window Frame	Wood	Poor	Brown	0.37
L-25	Room #2	Interior	East	Door	Wood	Poor	Brown	0.39
L-26	Room #2	Interior	East	Door Jamb	Wood	Poor	Brown	0.55
L-27	Room #2	Interior	Ceiling	Ceiling	Wood	Poor	Beige	0.73
L-28	Room #1	Interior	North	Wall	Wood	Fair	Beige	1.75
L-29	Room #1	Interior	South	Wall	Wood	Fair	Beige	0.69
L-30	Room #1	Interior	West	Wall	Wood	Fair .	Beige	1.56
L-31	Room #1	Interior	East	Wall	Wood	Fair	Beige	1.50
L-32	Room #1	Interior	East	Door	Wood	Fair	Brown	0.22
L-33	Room #1	Interior	East	Door Jamb	Wood	Fair	Brown	0.36
L-34	Room #1	Interior	East	Door	Wood	Fair	Brown	0.10
L-35	Living Room	Interior	East	Door Jamb	Wood	Fair	Brown	0.59
L-36	Room #1	Interior	North	Wall	Wood	Poor	Brown	1.29
L-37	Room #1	Interior	East	Wall	Wood	Poor	Brown	2.65
L-38	Room #1	Interior	South	Wall	Wood	Poor	Brown	0.55
L-39	Room #1	Interior	West	Wall	Wood	Poor	Brown	0.65
L-40	Room #1	Interior	West	Door Jamb	Wood	Fair	Green	0.52
L-41	Kitchen	Interior	East	Cabinets	Wood	Fair	Yellow	0.21
L-42	Kitchen	Interior	East	Cabinets	Wood	Fair	Yellow	0.18
L-43	Exterior	Exterior	South	Wall	Wood	Poor	Yellow	2.98
L-44	Exterior	Exterior	North	Wall	Wood	Poor	Yellow	7.15
L-45	Exterior	Exterior	South	Wall	Wood	Poor	Yellow	3.16
L-46	Exterior	Exterior	North	Wall	Wood	Poor	Yellow	2.15

XRF SURVEY RESULTS

Abandoned Single Story Structure Kaipapau Stream Bridge Replacement

Sample ID	Area	Interior/ Exterior	Side	Structure	Substrate	Condition	Color	Pb Conc. (mg/cm ²)
L-47	Exterior	Exterior	South	Window Frame	Wood	Poor	Brown	0.71
L-48	Exterior	Exterior	North	Window Frame	Wood	Poor	Brown	0.61
L-49	Exterior	Exterior	South	Window Frame	Wood	Poor	Brown	0.35
L-50	Exterior	Exterior	North	Window Frame	Wood	Poor	Brown	0.39
L-51	Exterior	Exterior	South	Door Frame	Wood	Poor	Brown	0.65
L-52	Exterior	Exterior	North	Door	Wood	Poor	Brown	0.36
L-53	Exterior	Exterior	South	Door Frame	Wood	Poor	Brown	0.09
L-54	Exterior	Exterior	North	Door	Wood	Poor	Brown	0.15
L-55	Exterior	Exterior	South	Door Frame	Wood	Poor	Brown	0.21
L-56	Exterior	Exterior	North	Door	Wood	Роот	Brown	0.31
L-57	Lanai	Exterior	South	Ceiling Overhang	Wood	Poor	Brown	0.36
L-58	Lanai	Exterior	North	Ceiling Overhang	Wood	Poor	Brown	3.52
L-59	Lanai	Exterior	South	Ceiling Overhang	Wood	Poor	Brown	2.15
L-60	Lanai	Exterior	North	Railings	Wood	Poor	Brown	1.95
L-61	Lanai	Exterior	South	Railings	Wood	Poor	Brown	0.31
L-62	Lanai	Exterior	East	Floor	Wood	Poor	Brown	0.15
L-63	Lanai	Exterior	South	Railings	Wood	Poor	Brown	0.09
L-64	Lanai	Exterior	North	Floor	Wood	Poor	Brown	0.21
			End Calil	bration - 1				1.16
End Calibration - 2								1.17
			End Cali	bration - 3				1.18



PAJAN

4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206,547,0100, Fax: 206,634,1936 www.nvllabs.com For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00 Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30 Samples Analyzed: 30

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi
Project Location: Hauula Bridge Replacement

Lab ID: 30076743 Client Sample #: A-1 Location: Hauula Bridge Replacement Description: Black asphaltic fibrous material with granules and white paint Layer 1 of 4 Asbestos Type: % Non-Fibrous Materials: Other Fibrous Materials:% Glass fibers 28% None Detected ND Asphalt/Binder, Granules, Mineral grains Description: Layered black asphaltic fibrous material with granules Layer 2 of 4 Asbestos Type: % Other Fibrous Materials:% Non-Fibrous Materials: None Detected ND Glass fibers 30% Asphalt/Binder, Granules, Mineral grains Description: Black asphaltic fibrous material with red granules Layer 3 of 4 Asbestos Type: % Other Fibrous Materials:% Non-Fibrous Materials: Cellulose 40% None Detected ND Asphalt/Binder, Granules Description: Black asphaltic fibrous material with trace silver paint Layer 4 of 4 Asbestos Type: % Other Fibrous Materials:% Non-Fibrous Materials: Cellulose 70% None Detected ND Asphalt/Binder, Metallic paint Client Sample #: A-2 Lab ID: 30076744 Location: Hauula Bridge Replacement Layer 1 of 3 Description: White soft material

Non-Fibrous Materials: Other Fibrous Materials: Asbestos Type: %

Binder/Filler None Detected ND None Detected ND

Layer 2 of 3 Description: Layered black asphaltic fibrous material with granules

Non-Fibrous Materials: Other Fibrous Materials: Asbestos Type: %

Asphalt/Binder, Granules, Mineral grains Glass fibers 27% None Detected ND

Layer 3 of 3 Description: Black asphaltic fibrous material (on wood)

Non-Fibrous Materials: Other Fibrous Materials: Asbestos Type: %

Asphalt/Binder Cellulose 45% None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 1 of 10

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30

Samples Analyzed: 30

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement

Method: EPA/600R-93/116

Lab ID: 30076 Location: Hauu	745 Client Sample #: A-3 la Bridge Replacement		
Layer 1 of 3			
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	None Detected ND	None Detected ND
Layer 2 of 3	Description: Layered black asphaltic fibrous m	naterial with granules	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Granules, Mineral grains	Glass fibers 32%	None Detected ND
Layer 3 of 3	Description: Black asphaltic fibrous material (d	on trace wood)	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder	Cellulose 48%	None Detected ND
Lab ID: 30076 Location: Hauu	746 Client Sample #: A-4 lla Bridge Replacement		
Layer 1 of 3	Description: Off-white soft material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Binder/Filler	None Detected ND	None Detected ND
Layer 2 of 3	Description: Black asphaltic material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder	None Detected ND	Chrysotile 6%
Layer 3 of 3	Description: Layered black asphaltic fibrous n	naterial with granules	
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Asphalt/Binder, Granules	Glass fibers 12%	None Detected ND
		Cellulose 20%	

Lab ID: 30076747 Client Sample #: A-5

Location: Hauula Bridge Replacement

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

Nick Ly, Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -50%). This report relates only to the Items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 2 of 10

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement

Batch #: 3013630.00 Client Project #: 10-4039 Date Received; 10/19/2010 Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Description: Off-white soft material Laver 1 of 3

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: % None Detected ND

Binder/Filler Layer 2 of 3

Description: Black asphaltic material Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder

None Detected ND

None Detected ND

Chrysotile 6%

Description: Layered black asphaltic fibrous material with granules Layer 3 of 3

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Granules

Glass fibers

None Detected ND

Cellulose 27%

Client Sample #: A-6 Lab ID: 30076748

Location: Hauula Bridge Replacement

Layer 1 of 2

Description: Off-white soft material

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler

None Detected

None Detected ND

Description: Black asphaltic material with trace paint Layer 2 of 2

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Paint

None Detected ND Chrysotile

Client Sample #: A-7 Lab ID: 30076749

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Black asphaltic material with gray surface and granules

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Granules

7% Cellulose

None Detected ND

Lab ID: 30076750

Client Sample #: A-8

Location: Hauula Bridge Replacement

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

Nick Ly, Techn

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall

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Page 3 of 10

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30 Samples Analyzed: 30

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi

Layer 1 of 1

Layer 1 of 1

Layer 2 of 3

Project Location: Hauula Bridge Replacement

Description: Black asphaltic material with gray surface and granules

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Granules

Cellulose 9% None Detected

Lab ID: 30076751 Client Sample #: A-9

Location: Hauula Bridge Replacement

Description: Black asphaltic material with gray surface and granules

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Granules

Cellulose 9% None Detected ND

Lab ID: 30076752 Client Sample #: A-10

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Gray hard brittle material

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler, Mineral grains

None Detected ND None Detected

Lab ID: 30076753 Client Sample #: A-11

Location: Hauula Bridge Replacement

Description: Off-white hard brittle material Layer 1 of 3

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler, Mineral grains

Description: Gray hard brittle material

None Detected

None Detected ND

Non-Fibrous Materials: Binder/Filler, Mineral grains Other Fibrous Materials:% None Detected

Asbestos Type: % None Detected

Description: Light tan material (on trace wood) Layer 3 of 3

Non-Fibrous Materials:

Binder/Filler

Other Fibrous Materials:% None Detected

Asbestos Type: %

None Detected

Lab ID: 30076754

Client Sample #: A-12

Location: Hauula Bridge Replacement

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

NICK EX

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 4 of 10

NVLAD

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010 Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement

Layer 1 of 3 Description: Off-white hard brittle material Non-Fibrous Materials: Binder/Filler, Mineral grains

Other Fibrous Materials:% ND None Detected

Asbestos Type: % None Detected ND

Description: Gray hard brittle material Layer 2 of 3

Non-Fibrous Materials:

Binder/Filler, Mineral grains

Other Fibrous Materials:% None Detected ND

Asbestos Type: % None Detected ND

Description: Light tan material (on trace wood) Layer 3 of 3

> Non-Fibrous Materials: Binder/Filler

Other Fibrous Materials:% None Detected

ND

1%

ND

Asbestos Type: %

None Detected

Client Sample #: A-13 Lab ID: 30076755

Location: Hauula Bridge Replacement

Description: Off-white powdery material with paint Layer 1 of 1

Non-Fibrous Materials:

Other Fibrous Materials:%

Cellulose

Asbestos Type: %

ND

None Detected

Calcareous particles, Binder/Filler, Paint Lab ID: 30076756 Client Sample #: A-14

Location: Hauula Bridge Replacement

Layer 1 of 2 Description: Beige soft material

> Non-Fibrous Materials: Binder/Filler

Other Fibrous Materials:% None Detected

Asbestos Type: % None Detected ND

Description: Trace off-white powdery material Layer 2 of 2

Non-Fibrous Materials:

Calcareous particles, Binder/Filler

Other Fibrous Materials:% None Detected

Asbestos Type: %

None Detected

Lab ID: 30076757 Client Sample #: A-15

Location: Hauula Bridge Replacement

Layer 1 of 2 Description: Beige soft material

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler

None Detected

ND

None Detected

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All builk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and aculty of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC Address: 505 Ward Avenue, Suite 202

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010 Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Honolulu, HI 96814

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement

Description: Trace off-white powdery material (on wood) Layer 2 of 2

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler

None Detected ND None Detected

Lab ID: 30076758 Client Sample #: A-16

Location: Hauula Bridge Replacement

Layer 2 of 2

Layer 1 of 2

Lab ID: 30076759

Description: Clear soft material with paint Layer 1 of 2

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler, Paint

None Detected

None Detected ND

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:% None Detected

Asbestos Type: % None Detected ND

Calcareous particles, Binder/Filler, Paint

Client Sample #: A-17 Location: Hauula Bridge Replacement

Description: Clear soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler, Paint

None Detected ND None Detected ND

Description: Off-white soft material with paint Layer 2 of 2

Non-Fibrous Materials:

Other Fibrous Materials:% None Detected

Asbestos Type: %

None Detected

Calcareous particles, Binder/Filler, Paint Lab ID: 30076760 Client Sample #: A-18

Location: Hauula Bridge Replacement

Layer 1 of 2

Description: Clear soft material with paint

Non-Fibrous Materials:

Binder/Filler, Paint

Other Fibrous Materials:% None Detected

Asbestos Type: % None Detected ND

Layer 2 of 2 Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials: %

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

ND None Detected

ND

None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -50%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 6 of 10

Qajvn

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30

Samples Analyzed: 30

Asbestos Type: %

None Detected ND

Asbestos Type: %

None Detected ND

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement

Client Sample #: A-19 Lab ID: 30076761 Location: Hauula Bridge Replacement Layer 1 of 3 Description: Dark red tile Non-Fibrous Materials: Layer 2 of 3

Calcareous particles, Vinyl/Binder Description: Clear soft adhesive

> Non-Fibrous Materials: Adhesive/Binder

Description: Gray material (on wood) Non-Fibrous Materials:

Calcareous particles, Binder/Filler

Other Fibrous Materials: %

Cellulose 3%

Other Fibrous Materials: %

None Detected

Other Fibrous Materials:% None Detected ND

3%

Asbestos Type: % None Detected ND

Client Sample #: A-20 Lab ID: 30076762

Location: Hauula Bridge Replacement

Layer 3 of 3

Layer 2 of 3

Layer 3 of 3

Layer 1 of 3 Description: Dark red tile

> Non-Fibrous Materials: Calcareous particles, Vinyl/Binder

Description: Clear soft adhesive Non-Fibrous Materials:

Adhesive/Binder

Description: Gray thin material (on wood) Non-Fibrous Materials:

Calcareous particles, Binder/Filler

Other Fibrous Materials:% None Detected

Other Fibrous Materials:%

Other Fibrous Materials: %

None Detected

Cellulose

None Detected ND

Asbestos Type: %

None Detected ND

Asbestos Type: %

Asbestos Type: % None Detected

Lab ID: 30076763 Client Sample #: A-21 Location: Hauula Bridge Replacement

Layer 1 of 3

Description: Dark red tile

Non-Fibrous Materials: Calcareous particles, Vinyl/Binder

Other Fibrous Materials:%

Cellulose 3% Asbestos Type: %

None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 7 of 10

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For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi

Project Location: Hauula Bridge Replacement

Description: Clear soft adhesive Layer 2 of 3

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Adhesive/Binder

None Detected ND

None Detected ND

Description: Gray thin material (on wood) Layer 3 of 3

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler

ND None Detected

None Detected

Lab ID: 30076764

Client Sample #: A-22

Location: Hauula Bridge Replacement

Description: Black woven asphaltic fibrous material with trace paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Paint

Cellulose 87%

None Detected ND

Lab ID: 30076765

Layer 1 of 1

Client Sample #: A-23

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Black woven asphaltic fibrous material with trace paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Paint

Cellulose 90%

None Detected

Lab ID: 30076766

Client Sample #: A-24

Layer 1 of 1

Location: Hauula Bridge Replacement

Description: Black woven asphaltic fibrous material with trace paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Asphalt/Binder, Paint

Cellulose 88%

None Detected

Lab ID: 30076767

Client Sample #: A-25

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND

None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

NIEKLY Technical Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 8 of 10

MATON

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi
Project Location: Hauula Bridge Replacement

Lab ID: 30076768

Layer 1 of 1

Client Sample #: A-26

Location: Hauula Bridge Replacement

Eddardi, Tradula Bridge Replacement

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected NE

None Detected ND

Lab ID: 30076769 Client Sample #: A-27

Location: Hauula Bridge Replacement

Layer 1 of 1 Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND

None Detected ND

Lab ID: 30076770 Client Sample #: A-28

Location: Hauula Bridge Replacement

Layer 1 of 3 Description: Brown hard or

Description: Brown hard compressed fibrous material with off-white surface

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Fine particles, Adhesive/Binder

Cellulose 96%

None Detected ND

Layer 2 of 3 Description: Beige soft mastic

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Mastic/Binder

None Detected ND

None Detected ND

Layer 3 of 3 Description: Off-white compacted powdery material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Caulking compound, Paint

None Detected ND

None Detected ND

Lab ID: 30076771 Client Sample #: A-29

Location: Hauula Bridge Replacement

Layer 1 of 2 Des

Description: Brown hard compressed fibrous material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Fine particles, Adhesive/Binder, Paint

Cellulose 96%

None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

lick Dieboical Di

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93//16 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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MAJAN

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Batch #: 3013630.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 30

Samples Analyzed: 30

Method: EPA/600R-93/116

Attention: Mr. Kama Kobayashi
Project Location: Hauula Bridge Replacement

Layer 2 of 2 Description: Brown hard compressed fibrous material with off-white/blue surface

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Fine particles, Adhesive/Binder

Cellulose 95%

None Detected ND

Lab ID: 30076772 Client Sample #: A-30

Location: Hauula Bridge Replacement

Layer 1 of 3 Description: Brown hard compressed fibrous material with off-white surface

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Fine particles, Adhesive/Binder

Cellulose 95%

None Detected ND

Layer 2 of 3 Description: Brown hard compressed fibrous material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Fine particles, Adhesive/Binder, Paint

Cellulose 95%

None Detected ND

Layer 3 of 3 Description: Trace off-white soft mastic

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler

None Detected ND

None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/19/2010

Date: 10/19/2010

Nick

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93//16 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 10 of 10

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Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

CHAIN of CUSTODY

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4708 Aurora Ave N, Seattle, WA 98103

Tel: 206.547.0100 Emerg.Cell: 206.914.4646

SAMPLE LOG

BATCHID

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		Services & Training C1		NL Batch Number	
	eet 505 W	ard Avenue. Suite 202		Client Job Number <u>10-4554</u>	
		ılu, HI 96814		Total Samples	
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4708 Aurora Ave. N., Seattle, WA 98103 Fax: 206,634,1936 Tel: 206.547.0100, www.nvllabs.com

For the scope of accreditation under NVLAP Lab Code 102063-0

Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement Batch #: 3013632.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600R-93/116

Client Sample #: A-31 Lab ID: 30076775

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Off-white compacted powdery material with layered paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Caulking compound, Paint

None Detected

None Detected ND

Lab ID: 30076776 Client Sample #: A-32

Location: Hauula Bridge Replacement

Description: Off-white compacted powdery material with layered paint Layer 1 of 1

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Caulking compound, Paint

None Detected

None Detected

Lab ID: 30076777 Client Sample #: A-33

Location: Hauuta Bridge Replacement

Layer 1 of 1

Description: Off-white compacted powdery material with layered paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Caulking compound, Paint

None Detected ND None Detected ND

Lab ID: 30076778 Client Sample #: A-34

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND None Detected ND

Lab ID: 30076779 Client Sample #: A-35

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND None Detected ND

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/20/2010

Date: 10/20/2010

Nick Like

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement Batch #: 3013632.00

Client Project #: 10-4039 Date Received: 10/19/2010

> Samples Received: 15 Samples Analyzed: 15

Method: EPA/600R-93/116

Lab ID: 30076780 Client Sample #: A-36

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND None Detected

Lab ID: 30076781 Client Sample #: A-37

Location: Hauula Bridge Replacement

Layer 1 of 1

Description: Off-white soft material with layered paint (on wood)

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND None Detected

Lab ID: 30076782 Client Sample #: A-38

Location: Hauula Bridge Replacement

Layer 1 of 2

Description: Clear soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler, Paint

None Detected ND None Detected ND

Layer 2 of 2 Description: Off-white powdery material with paint (on wood)

Non-Fibrous Materials:

Other Fibrous Materials:% None Detected

Asbestos Type: %

None Detected

Fine particles, Binder/Filler, Paint

Client Sample #: A-39

Lab ID: 30076783

Location: Hauula Bridge Replacement

Description: Clear soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Binder/Filler, Paint

None Detected

None Detected ND

Layer 2 of 2 Description: Off-white powdery material with paint (on wood)

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Fine particles, Binder/Filler, Paint

None Detected NΠ None Detected ND

Sampled by: Client

Layer 1 of 2

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/20/2010

Date: 10/20/2010

Nick Eve

ND

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and aculty of the sample collector. This report shall not be reproduced except in full, without written approved of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: EnviroServices & Training CTR, LLC Address: 505 Ward Avenue, Suite 202

Honolulu, HI 96814

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement Batch #: 3013632.00

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 15 Samples Analyzed: 15

Method: EPA/600R-93/116

Lab ID: 30076 Location: Hauu	784 Client Sample #: A-40 la Bridge Replacement		
Layer 1 of 2	Description: Off-white brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles/Binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles, Cement/Binder	None Detected ND	None Detected ND
Lab ID: 30076 Location: Hauu	785 Client Sample #: A-41 da Bridge Replacement		
Layer 1 of 2	Description: Trace off-white brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles/Binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Gray cementitious material		•
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
_	Fine particles, Cement/Binder	None Detected ND	None Detected ND
Lab ID: 30076 Location: Haud	786 Client Sample #: A-42 lla Bridge Replacement		
Layer 1 of 2	Description: Trace off-white brittle material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %
	Fine particles/Binder, Mineral grains	None Detected ND	None Detected ND
Layer 2 of 2	Description: Gray cementitious material		
	Non-Fibrous Materials:	Other Fibrous Materials:%	Asbestos Type: %

Lab ID: 30076787

Client Sample #: A-43

Fine particles, Cement/Binder

Location: Hauula Bridge Replacement

Sampled by: Client

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/20/2010

Date: 10/20/2010

Nick Ly Technical Director

ND

None Detected

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 3 of 4

None Detected

ND

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Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client EnviroServices & Training CTR, LLC

Batch #: 3013632.00

Client Project #: 10-4039 Date Received: 10/19/2010

Samples Received: 15

Samples Analyzed: 15

Method: EPA/600R-93/116

Address: 505 Ward Avenue, Suite 202 Honolulu, HI 96814

Attention: Mr. Kama Kobayashi Project Location: Hauula Bridge Replacement

Layer 1 of 2 Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected NΠ None Detected

Layer 2 of 2 Description: Off-white soft putty material with paint (on wood)

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND None Detected

Lab ID: 30076788 Client Sample #: A-44

Location: Hauula Bridge Replacement

Description: Off-white soft material with paint Layer 1 of 2

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected

None Detected

Description: Off-white soft putty material with paint (on wood) Layer 2 of 2

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Detected ND None Detected

Lab ID: 30076789 Client Sample #: A-45

Location: Hauula Bridge Replacement

Layer 1 of 2

Description: Off-white soft material with paint

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: % None Detected ND

Calcareous particles, Binder/Filler, Paint

None Detected Description: Off-white soft putly material with paint (on trace wood)

Non-Fibrous Materials:

Other Fibrous Materials:%

Asbestos Type: %

Calcareous particles, Binder/Filler, Paint

None Defected ND None Detected ND

Sampled by: Client

Layer 2 of 2

Analyzed by: Nadezhda Prysyazhnyuk

Reviewed by: Nick Ly

Date: 10/20/2010

Date: 10/20/2010

Nick Ly Fecharcal Director

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using EPA 600/R -93/116 Method with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40 -60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government.

Page 4 of 4

NVL Laboratories, Inc. CHAIN of CUSTODY

	l)h.	高元	aria
RATCH	ID		

4708 Aurora Ave N, Seattle, WA 98103

To Fa

	erg.Cell: 206.914.4646	Sample Lug		CHID	_
	88.NVL.LABS (685.5227)		3013	632.0	0
Client Envi	roServices & Training CTR, LL	C NVL Batch Nu	ımber		
	Ward Avenue, Suite 202	Client Job Nu	mber 10-4234		
	olulu, HI 96814	Totai Sai			
oject Manager <u>Mr.</u>	(ama Kobayashi	Turn Around	Time 1 1-Hr 8-Hrs	2 Days	☐ 5 Days
elect Location	and Bridg Redound	mt	☐ 2-Hrs ☐ 12-Hr ☐ 4-Hrs ☐ 24-Hr		6-10 Day
	<i>y</i> \			TAT less than 2	4 Hrs
		Email ad	dress kama@gotoetc.	.com	
Phone: (808				The second secon	
	PCM (NIOSH 7400) TEM (
Asbestos Bulk	PLM (EPA/600/R-93/116) 🔲 I	PLM (EPA Point Count) P	LM (EPA Gravimetry)	TEM BULK	
☐ Mold/Fungus	Mold Air Mold Bulk F	Rotometer Calibration		·	
METALS I	et Limit Matrix		RA Metals All 8		r Metals
☐ Total Metals	FAA (ppm Air Filter	□ Soll □ A	rsenic (As) 🔲 Chron		pper (Cu)
☐ TCLP	☐ ICP (ppm) ☐ Drinking water	Paint Chips in % B	arium (Ba) Lead (PD)	ckel (Ni)
□ Cr 6	GFAA (ppl	a) Paint Chips in cr	admium (Cd) LI Mercu	O (C30) 1	nc (Zn)
Other Types] Fiberglass Silica Nuisa	ance Dust Respirable Dus	st Other (Specify)		
of Analysis					
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4708 Aurora Ave. N., Seattle, WA 98103 Tel: 206,547.0100, Fax: 206,634,1936 www.nviiabs.com

Analysis Report

AIHA - IH # 101861 WA - DOE# C1765



Total Metals

Client: EnviroServices & Training CTR, LLC

Address: 505 Ward Avenue, Suite 202

Honokulu, HI 96814

Batch #: 3013633.00

Matrix: Bulk

Method: EPA 6010

Client Project #: 10-4039

Date Received: 10/19/2010

Samples Received: 1

Samples Analyzed: 1

Attention: Mr. Kama Kobayashi
Project Location: Hauula Bridge Replacement

Sample RL Results in Results in Elements mg / kg Lab ID Client Sample # wt (g) mg / kg ppm Arsenic (As) 0.2035 20.0 < 20.0 < 20.0 30076790 ARS-1

Sampled by: Client

Analyzed by: Yasuyuki Hida

mg/ kg = Milligrams per kilogram

Reviewed by: Nick Ly

Date Analyzed: 10/20/2010

Date Issued: 10/20/2010

RL = Reporting Limit

'<' = Below the reporting Limit

ppm = Parts per million

Note: Method QC results are acceptable unless stated otherwise.

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

Bench Run No: 30-1020-02

Page 1 of 1

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Tel: 206.547.0100 Emerg.Cell: 206.914.4646

CHAIN of CUSTODY SAMPLE LOG



BATCH ID

	936 1.888.NVI	L.LADO (000.522	223		-		JUIJ	633.	UU
		vices & Training		.C	NVL Batch	Number			
Stre		505 Ward Avenue, Suite 202			Client Job Number <u>10-40:⇒</u> ?				
		Honolulu, HI 96814			Total Samples				
roject Manaç	_{jer} <u>Mr. Kama</u>	Kobayashi			Turn Arou	ınd Time ☐ 1+	ir 08-Hirs Irs 012-Hirs	C2 Days	☐ 5 Days
oject Locati	on Happle	bridge re	(yainun)	-			irs 24-Hrs		
					F 76	address kama	lease call for T		14 Hrs
Dha	ne: (808) 839-	-7222 Eavi	(808) 839	1.4455	Eman	aggress <u>Realic</u>	KULIOIUCIU.U	<u> </u>	
		(NIOSH 7400)			□ TEM (A	HERA) TEA	(EPA Level	II) Other	
		(EPA/600/R-93/							
☐ Mold/Fu		i Air 🗌 Mold Bu		Rolometer Ca					
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Other Ty of Analy		rglass D Silica	∐ Nuisa	ince Dust L	J Kespirable	Just U Other	(Specify)		
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-	of Package: [☐ Good ☐ Dan							
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