Asbestos Containing Materials Survey

Tripler Army Medical Facility E-Wing Exterior Surface Repair Project

Prepared For:

Dept. of Veterans Affairs 459 Patterson Rd., Box 138 Honolulu, HI 96819

Prepared By:

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June 11, 2012

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Section 1

Narrative Report

Introduction

WEC conducted a limited asbestos containing materials survey on May 21, 2012 at the E-Wing of the Tripler Army Medical Facility. The survey was limited to sampling of accessible suspect ACM present on the exterior walls of the E-Wing building. The suspect asbestos containing material sampling was conducted in compliance with the Hawaii Department of Health sample requirements. Sampling was conducted by Shad Wells, a HDOH certified Asbestos Building Inspector (HIASB-0132).

Executive Summary

Suspect Asbestos Containing Material Samples - Laboratory sample analysis of the suspect asbestos containing materials collected by WEC from accessible areas, indicated that regulated asbestos containing materials (RACM) are present. The following materials were sampled:

- Skim Coat
- Plaster (RACM)
- Wall Transition Membrane
- Window/Vent Caulk
- Ext. Wall Joint Caulk

Asbestos Containing Materials Table:

Asbestos Containing Materials	Results	Estimated Quantities
Plaster – Friable	< 1% Chrysotile	All Exterior Wall
Condition – Fair	Asbestos	Surfaces Excluding
Exterior Walls		Cementitious/Plaster
See Section 2 for Photo ID of Material		Awnings

Note: NESHAP and HDOH regulations classify friable materials containing < 1% asbestos as regulated asbestos containing materials (RACM) unless concentrations of < 1% have been verified by PLM point count method.

Lead in Paint Samples - Laboratory sample analysis of the paint chip samples collected indicated that lead containing paints (LCP < 5000 ppm Lead) are present. The following paint colors were sampled:

Lead In Paint Table:

Paint Chip Samples: Location/Color	Results Lead PPM
Exterior Wall – Pink Paint (Lead Containing)	540
Exterior Wall – Beige Paint (Lead Containing)	360
5 th Level Exterior Ceiling – Beige Paint (Lead Containing)	450

Project Impacts

Asbestos Containing Materials

Removal of RACM must be conducted by a licensed asbestos abatement contractor in compliance with applicable federal, state and local regulations.

Suspect asbestos containing materials discovered during renovation/demolition that were not sampled must be tested for asbestos or treated as an asbestos containing material until proven otherwise.

The following asbestos containing materials have been identified:

Exterior Wall Plaster

The potentially friable asbestos containing plaster is located under the exterior paint and skim coat layers on the exterior walls of the E Wing building. Removal and/or disturbance of this material are defined by EPA as Category II ACM that may become friable during exterior wall repair and surface preparation.

Note: Without additional PLM point count analysis to verify the asbestos concentrations at < 1% the wall repair and surface preparation must be conducted within a negative pressure containment.

Lead in Paint

Sample analysis of the paint chip samples collected from the exterior surfaces of the building indicate that there is lead containing paint present at the project site. The renovations of the structure must be conducted by workers that possess OSHA Lead Awareness Training in compliance with OSHA 29 CFR 1926.62 Lead in Construction Standard during disturbance of paints containing lead.

Analytical Methods

Asbestos

EPA method 600/R-93/116 is the method used to analyze bulk asbestos samples. This method utilizes polarized light microscopy (PLM) with dispersion staining oils to identify asbestos species. EPA method 600/R-93/116 is the method of analysis recommended by the US EPA to determine the composition of suspect asbestos containing materials.

Lead Paint

EPA method SW-846 -7420 is the method used to analyze paint samples. This method utilizes an atomic absorption spectroscopy (AAS).

Analysis was performed by WEC's in house NVLAP/AIHA accredited laboratory

Section 2

Site Photographs





Exterior Wall – RACM - Cementitious Plaster

Section 3

Laboratory Results



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LAB CODE: 200350-0

Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Report #: 78922 Report By: S. Yoshitake

Report Date: 6/4/2012

Client: Dept. of Veterans Affairs

459 Patterson Rd., Box 138

Honolulu, HI 96819

Collection Date: 5/21/2012

Collection By: S. Wells

TAT: One week (or more)

Analysis By: K. Wells

Analysis Date: 6/4/2012 Received By: Wells

Project Name/Location:

Samples: 42

E-Wing Exterior TAMC

Layers: 60

Received Date: 6/4/2012

Material

Client ID# B796-01

WEC ID# Location

Skim Coat

Laver of 2

ASBESTOS

HB12-2593A 2nd Fl. Lanai Ext. Wall South Side

Homogenous

No

Color

None Detected

% Non-Fibrous Materials:

% Other Fibrous Materials:

100%

Pink

Other Fibrous Materials Cellulose

Client ID#

<1%

WEC ID# Location

B796-01

HB12-2593B 2nd Fl. Lanai Ext. Wall South Side

100%

100%

Material Plaster

Layer 2 of 2

ASBESTOS

Chrysotile <1%

% Asbestos: % Other Fibrous Materials: <1%

Homogenous No

Color Tan

Other Fibrous Materials Cellulose

<1%

Client ID# WEC ID# B796-02

Location HB12-2594A 2nd Fl. Lanai Ext. Wall South Side

% Non-Fibrous Materials:

Material Skim Coat Laver of 2

ASBESTOS

None Detected

% Other Fibrous Materials: <1% % Non-Fibrous Materials:

Homogenous No

Color Pink

Other Fibrous Materials

Client ID#

B796-02

Cellulose

₩EC ID#

<1%

<1%

Location HB12-2594B 2nd Fl. Lanai Ext. Wall South Side

Plaster

Layer of 2

ASBESTOS

% Asbestos:

<1%

Homogenous Color

Chrysotile Other Fibrous Materials

Cellulose

<1%

% Other Fibrous Materials:

<1% % Non-Fibrous Materials: 100%

No

Material

Tan



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID# B796-03 ASBESTOS None Detected Other Fibrous Materials Cellulose	WEC ID# HB12-2595A	Location 2nd Fl. Lanai Ext. Wall South Side % Other Fibrous Materials: <1% % Non-Fibrous Materials: 100%	Material Skim Coat Homo- genous No	Layer 1 of 2 Color Pink
Client ID# B796-03	WEC ID# HB12-2595B	Location 2nd Fl. Lanai Ext. Wall South Side	Material Plaster	Layer 2 of 2
ASBESTOS Chrysotile Other Fibrous Materials Cellulose	<1%	% Asbestos: <1% % Other Fibrous Materials: <1% % Non-Fibrous Materials: 100%	Homo- genous No	Color Tan
Client ID# B796-04 ASBESTOS None Detected Other Fibrous Materials Synthetic	WEC ID# HB12-2596	Location 2nd Fl. Lanai Ext. Wall Transition South Side % Other Fibrous Materials: 12% % Non-Fibrous Materials: 88%	Material Membrane Homo- genous No	Layer 1 of 1 Color O-Wht/Grn
Client ID# B796-05 ASBESTOS None Detected Other Fibrous Materials Synthetic	WEC ID# HB12-2597	Location 2nd Fl. Lanai Ext. Wall Transition South Side % Other Fibrous Materials: 12% % Non-Fibrous Materials: 88%	Material Membrane Homo- genous No	Layer 1 of 1 Color O-Wht/Grn
Client ID# B796-06 ASBESTOS None Detected Other Fibrous Materials Synthetic	WEC ID# HB12-2598	Location 2nd Fl. Lanai Ext. Wall Transition South Side % Other Fibrous Materials: 12% % Non-Fibrous Materials: 88%	Material Membrane Homo- genous No	Layer 1 of 1 Color O-Wht/Gm



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID# B796-07	WEC ID# HB12-2599	Location 2nd Fl. Window Caulk South Side		Material Coulk	Layer 1 of 1
B796-07	HB1Z-Z599	2nd Fi. Window Caulk South Side		Caulk	L. T
ASBESTOS				Homo- genous	Color
None Detected		% Other Fibrous Materials:		No	Black
Other Fibrous Materials		% Non-Fibrous Materials:	90%		
Synthetic	10%				
Client ID#	WEC ID#	Location	· · · · · · · · · · · · · · · · · · ·	Material	Layer
B796-08	HB12-2600	2nd Fl. Window Caulk South Side		Caulk	1 of 1
ASBESTOS				Homo-	Color
None Detected		% Other Fibrous Materials:	10%	genous No	Black
	٦	% Non-Fibrous Materials:	90%	IÁO	
Other Fibrous Materials Synthetic	10%				
Synthetic	1078				
Client ID#	WEC ID#	Location		Material	Layer
B796-09	HB12-2601	2nd Fl. Window Caulk South Side		Caulk	1 of 1
ASBESTOS				Homo-	Color
None Detected		% Other Fibrous Materials:	10%	genous No	Black
	7	% Non-Fibrous Materials:	90%	110	
Other Fibrous Materials Synthetic	10%				
Cynthesic	1070				
Client ID#	WEC ID#	Location		Material	Layer
B796-10	HB12-2602A	3rd FlLanai Ext. Wall South Side		Skim Coat	1 of 2
ASBESTOS				Homo-	Color
		% Other Fibrous Materials:	<1%	genous	Pink
None Detected	- 1	% Non-Fibrous Materials:	100%	No	T MIK
Other Fibrous Materials		70.101.7 32.000 31.000.01.01	10070		
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-10	HB12-2602B	3rd FlLanai Ext. Wall South Side		Plaster	2 of 2
ASBESTOS		% Asbestos:	<1%	Homo-	Color
Chrysotile	<1%	% Other Fibrous Materials:	<1%	genous No	Tan
Other Fibrous Materials		% Non-Fibrous Materials:	100%		
Cellulose	<1%				

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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

	1-1				
Client ID#	WEC ID#	Location		Material	Layer
B796-11	HB12-2603A	3rd FlLanai Ext. Wall South Side		Skim Coat	1 of 2
ASBESTOS				Homo-	Color
L		% Other Fibrous Materials:	<1%	genous	Pink
None Detected	_	% Non-Fibrous Materials:	100%	No	1 mix
Other Fibrous Materials		% Non-i brous materials.	10078		
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-11	HB12-2603B	3rd FlLanai Ext. Wall South Side		Plaster	2 of 2
ASBESTOS		% Asbestos:	<1%	Homo-	Color
Chrysotile	<1%	% Other Fibrous Materials:	<1%	genous No	Tan
		% Non-Fibrous Materials:	100%	NO	
Other Fibrous Materials Cellulose	<1%				
Сениюѕе	~170				
Client ID#	WEC ID#	Location		Material	Layer
B796-12	HB12-2604A	3rd FlLanai Ext. Wall South Side		Skim Coat	1 of 2
ASBESTOS				Homo-	
AGBEGIOG		% Other Fibrous Materials:	<1%	genous	Color
None Detected		,,	.,.	No	Pink
Other Fibrous Materials		% Non-Fibrous Materials:	100%		
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-12	HB12-2604B	3rd FlLanai Ext. Wall South Side		Plaster	2 of 2
ASBESTOS		% Asbestos:	<1%	Homo-	Calar
Chrysotile	<1%	% Other Fibrous Materials:	<1%	genous	Color Tan
		% Non-Fibrous Materials:	100%	No	idii
Other Fibrous Materials	<u> </u>	% NOH-FIDIOUS Waterials.	100%		
Cellulose	<1%	,			
Client ID#	WEC ID#	Location		Material	Layer
B796-13	HB12-2605	3rd FlWindow Caulk South Side		Caulk	1 of 1
ASBESTOS				Homo-	
ASDESTUS		% Other Fibrous Materials:	100/	genous	Color
None Detected			, -, -	No	Black
Other Fibrous Materials		% Non-Fibrous Materials:	90%		
Synthetic	10%				



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

				·	
Client ID# B796-14	WEC ID# HB12-2606	Location 3rd FL-Window Caulk South Side		Material Caulk	Layer 1 of 1
ASBESTOS	11012 2000	ord in Trindon Sadik South Side		Homo-	Color
None Detected Other Fibrous Materials	7	% Other Fibrous Materials: % Non-Fibrous Materials:	10% 90%	genous No	Black
Synthetic	10%				
Client ID#	WEC ID#	Location	· · · · ·	Material	Layer
B796-15	HB12-2607	3rd FlWindow Caulk South Side		Caulk	1 of 1
ASBESTOS				Homo- genous	Color
None Detected		% Other Fibrous Materials:		No	Black
Other Fibrous Materials	1	% Non-Fibrous Materials:	90%		
Synthetic	10%				
Client ID#	WEC ID#	Location		Material	Layer
B796-16	HB12-2608A	4th FlLanai Ext. Wall South Side		Skim Coat	1 of 2
ASBESTOS				Homo- genous	Color
None Detected		% Other Fibrous Materials:		No	Pink
Other Fibrous Materials	1	% Non-Fibrous Materials:	100%		
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-16	HB12-2608B	4th FlLanai Ext. Wall South Side		Plaster	2 of 2
ASBESTOS		% Asbestos:	<1%	Homo- genous	Color
Chrysotile	<1%	% Other Fibrous Materials:	<1%	No	Tan
Other Fibrous Materials		% Non-Fibrous Materials:	100%		
Cellulose	<1%				
Client ID#	WEC ID#	Location	<u>,</u>	Material	Layer
B796-17	HB12-2609A	4th FlLanai Ext. Wall South Side		Skim Coat	1 of 2
ASBESTOS				Homo- genous	Color
None Detected		% Other Fibrous Materials:		No	Pink
Other Fibrous Materials		% Non-Fibrous Materials:	100%		
Cellulose	<1%				



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID# B796-17	WEC ID# HB12-2609B	Location 4th FlLanai Ext. Wall South Side	Material Plaster	Layer 2 of 2
ASBESTOS Chrysotile	<1%	% Asbestos: <1% % Other Fibrous Materials: <1%	Homo- genous No	Color Tan
Other Fibrous Materials Cellulose	<1%	% Non-Fibrous Materials: 100%	6	
Client ID# B796-18	WEC ID# HB12-2610A	Location 4th FlLanai Ext. Wall South Side	Material Skim Coat	Layer 1 of 2
None Detected Other Fibrous Materials Cellulose	<1%	% Other Fibrous Materials: <1% % Non-Fibrous Materials: 100%	Homo- genous No	Color Pink
Client ID# B796-18	WEC ID# HB12-2610B	Location 4th FlLanai Ext. Wall South Side	Material Plaster	Layer 2 of 2
ASBESTOS Chrysotile	<1%	% Asbestos: <1% % Other Fibrous Materials: <1%	Homo- genous No	Color Tan
Other Fibrous Materials Cellulose	<1%	% Non-Fibrous Materials: 100%		
Client ID# B796-19	WEC ID# HB12-2611	Location 4th FlWindow Caulk South Side	Material Caulk	Layer 1 of 1
None Detected Other Fibrous Materials Synthetic	10%	% Other Fibrous Materials: 10% % Non-Fibrous Materials: 90%	Homo- genous No	Color Black
Client ID# B796-20	WEC ID# HB12-2612	Location 4th FlWindow Caulk South Side	Material Caulk	Layer 1 of 1
None Detected Other Fibrous Materials Synthetic	10%	% Other Fibrous Materials: 10% % Non-Fibrous Materials: 90%	Homo- genous No	Color Black

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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID# B796-21 ASBESTOS None Detected Other Fibrous Materials Synthetic	WEC ID# HB12-2613	Location 4th FlWindow Caulk South Side % Other Fibrous Materials: 1: % Non-Fibrous Materials: 9	0% 0%	Material Caulk Homo- genous No	Layer 1 of 1 Color Black
Client ID# B796-22 ASBESTOS None Detected Other Fibrous Materials Cellulose	WEC ID# HB12-2614A	Location 5th FlLanai Ext. Wall South Side % Other Fibrous Materials: < % Non-Fibrous Materials: 1	:1% 00%	Material Skim Coat Homo- genous No	Layer 1 of 2 Color Pink
Client ID# B796-22 ASBESTOS Chrysotile Other Fibrous Materials Cellulose	WEC ID# HB12-2614B	% Other Fibrous Materials: <	1% 1% 00%	Material Plaster Homo- genous No	Layer 2 of 2 Color Tan
Client ID# B796-23 ASBESTOS None Detected Other Fibrous Materials Cellulose	WEC ID# HB12-2615A	Location 5th FlLanai Ext. Wall South Side % Other Fibrous Materials: < % Non-Fibrous Materials: 1	:1% 00%	Material Skim Coat Homo- genous No	Layer 1 of 2 Color Pink
Client ID# B796-23 ASBESTOS Chrysotile Other Fibrous Materials Cellulose	WEC ID# HB12-2615B <1%	% Other Fibrous Materials: <	1% :1% :00%	Material Plaster Homo- genous No	Layer 2 of 2 Color Tan

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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID#	WEC ID#	Location	Material	Layer
B796-24	HB12-2616A	5th FtLanai Ext. Wall South Side	Skim Coat	1 of 2
ASBESTOS			Homo-	Color
		% Other Fibrous Materials: <1%	genous	Pink
None Detected	-	% Non-Fibrous Materials: 100%	No	
Other Fibrous Materials	1	70 Non 1 Ibrode Materiale. 10078		
Cellulose	<1%			
Client ID#	WEC ID#	Location	Material	Layer
B796-24	HB12-2616B	5th FiLanai Ext. Wall South Side	Plaster	2 of 2
ASBESTOS	•	% Asbestos: <1%	Homo-	Color
Chrysotile	<1%	% Other Fibrous Materials: <1%	genous	Tan
		% Non-Fibrous Materials: 100%	No	Tun
Other Fibrous Materials	1	70 TVGITT IDIOUG MULOTIGIG. 10079		
Cellulose	<1%			
Client ID#	WEC ID#	Location	Material	Layer
B796-25	HB12-2617	5th FlMechanical Rm. Vent Caulk South Side	Caulk	1 of 1
ASBESTOS			Homo-	
AGBEGTOG		% Other Fibrous Materials: 10%	genous	Color Black
None Detected			No	DIACK
Other Fibrous Materials]	% Non-Fibrous Materials: 90%		
Synthetic	10%			
Client ID#	WEC ID#	Location	Material	Layer
B796-26	HB12-2618	5th FlMechanical Rm. Vent Caulk South Side	Caulk	1 of 1
ASBESTOS			Homo-	Color
Name Detected		% Other Fibrous Materials: 10%	genous No	Black
None Detected	٦	% Non-Fibrous Materials: 90%	NO	
Other Fibrous Materials	1001	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Synthetic	10%			
Client ID#	WEC ID#	Location	Material	Layer
B796-27	HB12-2619	5th FlWindow Caulk East Side	Caulk	1 of 1
ASBESTOS			Homo-	Color
None Detected		% Other Fibrous Materials: 10%	genous No	Black
Other Fibrous Materials	1	% Non-Fibrous Materials: 90%		
Synthetic	10%			

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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

	· · · · · · · · · · · · · · · · · · ·				
Client ID# B796-28	WEC ID# HB12-2620	Location 5th FlStair Access Ext. Wall Crack Re	epair Caulk	Material Caulk	Layer 1 of 1
ASBESTOS		% Other Fibrous Materials: <1	1%	Homo- genous	Color
None Detected			00%	No	Black
Other Fibrous Materials		% Non-Fibrous Waterials. To	0.076		
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-29	HB12-2621	5th FlStair Access Ext. Wall Crack Re	epair Caulk	Caulk	1 of 1
ASBESTOS				Homo-	Color
None Detected		% Other Fibrous Materials: <1	1%	genous No	Black
Other Fibrous Materials	7	% Non-Fibrous Materials: 10	00%	140	
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-30	HB12-2622	5th FlStair Access Ext. Wall Crack Re	epair Caŭlk	Caulk	1 of 1
ASBESTOS				Homo-	Color
None Detected		% Other Fibrous Materials: <1	1%	genous No	Black
	7	% Non-Fibrous Materials: 10	00%	140	
Other Fibrous Materials Cellulose	<1%				
					· · · · · · · · · · · · · · · · · · ·
Client ID#	WEC ID#	Location		Material	Layer
B796-31	HB12-2623	Ground Level Ext. Wall Joint Caulk		Caulk	1 of 1
ASBESTOS				Homo-	Color
None Detected		% Other Fibrous Materials: <1	1%	genous No	Pink/Blk
Other Fibrous Materials	7	% Non-Fibrous Materials: 10	00%		
Cellulose	<1%				
		<u>.</u>		<u>,</u>	
Client ID#	WEC ID#	Location		Material	Layer
B796-32	HB12-2624	Ground Level Ext. Wall Joint Caulk		Caulk	1 of 1
ASBESTOS				Homo- genous	Color
None Detected		% Other Fibrous Materials: <1	1%	genous No	Pink/Blk
Other Fibrous Materials		% Non-Fibrous Materials: 10	00%		
Cellulose	<1%				
L					



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID# B796-33	WEC ID# HB12-2625	Location Ground Level Ext. Wall Joint Caulk		Material Caulk	Layer 1 of 1
None Detected Other Fibrous Materials Cellulose	<1%	% Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Homo- genous No	Color Pínk/Blk
Client ID# B796-34	WEC ID# HB12-2626A	Location Ground Level Ext. Wall North Side		Material Skim Coat	Layer 1 of 2
None Detected Other Fibrous Materials Cellulose	<1%	% Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Homo- genous No	Color Pink
Client ID# B796-34 ASBESTOS Chrysotile Other Fibrous Materials Cellulose	WEC ID# HB12-2626B <1%	Location Ground Level Ext. Wall North Side % Asbestos: % Other Fibrous Materials: % Non-Fibrous Materials:	<1% <1% 100%	Material Plaster Homo- genous No	Layer 2 of 2 Color Tan
Client ID# B796-35 ASBESTOS None Detected Other Fibrous Materials Cellulose	WEC ID# HB12-2627A	Location Ground Level Ext. Wall West Side % Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Material Skim Coat Homo- genous No	Layer 1 of 2 Color Pink
Client ID# B796-35 ASBESTOS None Detected Other Fibrous Materials Cellulose	WEC ID# HB12-2627B	Location Ground Level Ext. Wall West Side % Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Material Plaster Homo- genous No	Layer 2 of 2 Color Tan



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID#	WEC ID#	I a set a s		20-2	
B796-36		Location Ground Level Ext. Wall Southwest Side		Material Skim Coat	Layer 1 of 2
ASBESTOS	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Homo- genous	Color
None Detected		% Other Fibrous Materials: <1%		No	Pink
Other Fibrous Materials		% Non-Fibrous Materials:	100%	*	
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-36	HB12-2628B	Ground Level Ext. Wall Southwest S	Side	Plaster	2 of 2
ASBESTOS		% Asbestos:	<1%	Homo-	Color
Chrysotile	<1%	% Other Fibrous Materials:	<1%	genous No	Tan
Other Fibrous Materials	7	% Non-Fibrous Materials:	100%		
Cellulose	<1%				
Client ID#	WEC ID#	Location		Material	Layer
B796-37	HB12-2629A	Ground Level Ext. Roof Eave		Skim Coat	1 of 2
ASBESTOS				Homo-	Color
None Detected		% Other Fibrous Materials:	<1%	genous No	Off-White
	7	% Non-Fibrous Materials:	100%	NO	
Other Fibrous Materials Cellulose	<1%				
Genniose	-1/6				
Client ID# B796-37	WEC ID#	Location Ground Level Ext. Roof Fave		Material	Layer 2 of 2
D130-01	HB12-2023D	Glouid Level Ext. Addi Eave		Plaster	
ASBESTOS				Homo- genous	Color
None Detected		% Other Fibrous Materials:	<1%	No	Off-White
Other Fibrous Materials]	% Non-Fibrous Materials:	100%		
Cellulose	<1%				
			··· · · · · · · · · · · · · · · · · ·		
Client ID#	WEC ID#	Location		Material	Layer
B796-38	HB12-2630A	Ground Level Ext. Roof Eave		Skim Coat	1 of 2
ASBESTOS				Homo-	Color
ASBESTUS				genous	COIOI
None Detected		% Other Fibrous Materials:		genous No	Off-White
<u> </u>	7.	% Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	•	



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Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#:

Client ID# B796-38	WEC ID# HB12-2630B	Location Ground Level Ext. Roof Eave		Material Plaster	Layer 2 of 2
None Detected Other Fibrous Materials Cellulose	<1%	% Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Homo- génous No	Color Off-White
Client ID# B796-39	WEC ID# HB12-2631A	Location Ground Level Ext. Roof Eave		Material Skim Coat	Layer 1 of 2
None Detected Other Fibrous Materials Cellulose	<1%	% Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Homo- genous No	Color Off-White
Client ID# B796-39	WEC ID# HB12-2631B	Location Ground Level Ext. Roof Eave		Material Plaster	Layer 2 of 2
None Detected Other Fibrous Materials Cellulose	<1%	% Other Fibrous Materials: % Non-Fibrous Materials:	<1% 100%	Homo- genous No	Color Off-White
Client ID# B796-40	WEC ID# HB12-2632	Location Ground Level Window Caulk North	Side	Material Caulk	Layer 1 of 1
None Detected Other Fibrous Materials Synthetic	10%	% Other Fibrous Materials: % Non-Fibrous Materials:	10% 90%	Homo- genous No	Color Black
Client ID#	WEC ID#	Location		Material	Layer
B796-41 ASBESTOS None Detected Other Fibrous Materials Synthetic	HB12-2633	% Other Fibrous Materials: % Non-Fibrous Materials:		Caulk Homo- genous No	Color Black

AX: (808) 843-0657

LAB CODE: 200350-0

Bulk Sample Analysis for Asbestos

WEC Project #: H12-796 Client Project#: Report #: 78922 Report By: S. Yoshitake Report Date: 6/4/2012

WEC ID# Material Layer Client ID# Location of B796-42 HB12-2634 Ground Level Window Caulk South Side Caulk Homo-**ASBESTOS** Color aenous % Other Fibrous Materials: 10% Black No **None Detected** % Non-Fibrous Materials: 90% Other Fibrous Materials Synthetic 10% Date 6/4/2012 Kanokthip Wells, Lab Analyst Mille Date 6/4/2012 Shad Wells, S., Technical Reviewer

Analysis performed by EPA Method 600/R-93/116 with dispersion staining microscopy. All quantities reported are based on visual estimation by PLM, unless point-counting method is requested and noted for the sample. Test report relates only to items tested and must not be used by client to claim product endorsement by NVLAP or any agency of the U.S. Government. Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse). White Environmental Consultants, Inc. is an NVLAP accredited laboratory for bulk asbestos analysis. (Lab# 200350-0)



WHITE CLIENT PAGE OF PROJECT NAME E-Wing Exterior DATE 5/21/13

APPLICATION CONTROL	CONSULTANT	S INC. LOCATION Tripler Arm	y medical Facility
	s Rd. Suite 203, Honolulu, Hl	96819 WEC JOB# H17-796	CLIENT JOB#
		BULK SAMPLE ANALYTIC TURNAROUND TIME # 0F SAMPLES	SELECTED LABORATORY
ASBESTOS BULK PAIN	T SOIL ARSENIC BULK	RUSH 24hr 48hr 72hr (5-day	2 WEO
COLLECTED BY SUM	RELINOISHED BY SUUM	DATE/TIME RELINQUISHED REFERENCES S/27/12/1000	DATE/TIME RECEIVED 6/4/120220
COMMENTS:		•	
SAMPLE ID#	MATERIAL	LOCATION	COMMENTS
B796-01	Skim coat/ plaster	2nd Lanai Exterior Wall Fl. – South Side	
02	.		
03	+	à.	
04	Membrant	Lanai wall Transition South Side	,
05		Î	
06			
07	caulk	window cank South Side	
08			
09			
10	8kim Coat/	3rd Lemai Exterior Fl Wall South Side	
	1		
12			
13	caulk	window canlk South Side.	
14			
1 15		+ +	



Dept. of veterans Affairs PROJECT NAME E-Wing Exterior

CLIENT JOB# WEC JOB# 112-796

FIELD DATA SHEET - BULK SAMPLE ANALYTICAL REQUEST

		BULK SAMPLE ANALYTIC	COMMENTS
SAMPLE ID#	Skim CE CH		·
B796-16	Plate	4th Fl. Lanal Exterior well South Sile	
1 17	1		
18			
19	caulk	Window caulk South Side	
20	1	174	
21			
22	Skimcoat/ Plastu	5th Lanai Exterior Flo wall South Side	
23	/ / / / / / /	Wall Start Start	
24			
75	coulk	mechanical Room vent earlk. South Side	
76	\	1	
27		Window Caulk Bast Side	
28	eaulk	Stair Access Exterior	:
79		cardik	
30			
31	cank	Grand Level Exterior Leavi Joint caulk	
32			
33			
34	Skim coax/ Plash	Grand Extenor WENI Lead North Side	
35	1	L Exterior well west side	



Dept. of veterans Affairs PROJECT NAME E-Wim EX

197 Sand Island Access Rd. Suite 203, Honolulu, HI 96819

FIELD D	DATA SHEET -	BULK SAMPLE ANALYTIC	AL REQUEST
SAMPLE ID#	MATERIAL	LOCATION	COMMENTS
	Skim Coat	Ground Exter well	
13796-36	PLASTY	Level - Southwest Side	
1 .	5'sim coat/	Exterior Roof Eve	
37	18/68/00		
	1		
38			
0.0			
34	1 4	+ +	•
	cantis	whow early	
40	Gar.	North Side	⊘ 3
		wadow calk	
1 41		west side	
		# Wildow early	
+ 42		f South Such	İ
		4 250KN 200C	
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FAX: (808) 843-0657



LAB # 102845

Lead Analysis in Paint

WEC Project #: H12-796 Client Project#:

Report #: 78920 Report By: S. Yoshitake Report Date: 6/4/2012

Client: Dept. of Veterans Affairs 459 Patterson Rd., Box 138

Honolulu, HI 96819

TAT: One week (or more)

Samples: 3

Collection By: S. Wells

Collection Date: 5/21/2012

Analysis By: K. Wells

Analysis Date: 6/1/2012 Received By: Wells

Received Date: 6/1/2012

Project /NameLocation: E-Wing Exterior TAMC

Client ID#	WEC ID#	Result	Result Units	Reporting Limit (ppm)
LP796-01	HP12-1607	540	ppm	100
LP796-02	HP12-1608	360	ppm	98
LP796-03	HP12-1609	450	ppm	99

Kanokthip Wells, Lab Analyst

Taylor Epstein, Technical Review

Date

6/4/2012

Date

6/4/2012

If units of "weight %" are desired, use the following conversion equation: ppm/10,000 = wt %. Using units of "ppm" allows low concentrations of lead to be reported as whole numbers. EPA SW-846 Chapter 3.2 used in sample preparation. Analysis performed by flame atomic absorption spectroscopy using EPA Method SW-846-7420 and NIOSH Method 7082. The Reporting Limit is at least twice that of the Method Detection Limit (MDL). The MDL (defined as the minimum concentration of an analyte that can be reported with 99% confidence to have a concentration greater than zero) is determined from statistical analysis of replicate samples in a given matrix containing the analyte, as defined in 40CFR Part 136, Appendix B. Laboratory blanks are used to assess possible contamination and sensitivity of analysis, and no blank correction is made. Unless otherwise stated, all quality control samples are acceptable. Modifications made to the previously referenced test methods are documented in WEC Inc.'s Standard Operating Procedures Manual. Supporting laboratory documentation is available upon request. Unless otherwise stated, samples are received in acceptable condition. Results relate only to the items tested. WEC inc. Honolulu is AIHA accredited in the Industrial Hygiene Program of asbestos fiber counts. WEC Inc. Honolulu is also AlHA accredited in the Environmental Lead Program for airborne particulates, soils, dust wipes, and paint chips (Lab ID# 102845). Test reports must not be reproduced without the approval of WEC Inc., and are subject to WEC Inc. General Terms and Conditions (see reverse).



Dept, of Veterans Affairs

CLIENT PAGE OF PROJECT NAME E-Wing Exterior DATE 5/21/12

CONSULTANTS INC.

	CONSULTANTS	3.1.5	CLIENT JOB#
	Rd. Suite 203, Honolulu, HI		
FIELD D		BULK SAMPLE ANALYTIC TURNAROUND TIME # OF SAMPLES	SELECTED LABORATORY
, PAINT	SOIL ARSENIC BULK	RUSH 24hr 48hr 72hr 5-day 3	WEC
	RELINGISHED BY 8000000000000000000000000000000000000	DATE/TIME RELINQUISHED RECEIVED BY \$\frac{5}{27}/12 \ 1000	DATE / TIME RECEIVED
COMMENTS:		V	- /
SAMPLE ID#	MATERIAL	LOCATION	COMMENTS
LP796-01	Paint	Exterior wall	Pink Paint
LP796-02		1	Pink Paint Beige Paint Beige Paint.
LP796-03	4	5th Level control arm. Ceiling - Exterior .	Beige Paint.
			MATERIA (1997)
:	·		
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