#### **SECTION 13280**

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

#### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This section includes the results of the State's survey for Asbestos, Lead and /or other hazardous materials and is provided for the Contractor's information.
- B. Related Sections include the following:
  - 1. SECTION 13281 ASBESTOS ABATEMENT for requirements of all work which disturbs ACM. Also, refer to the drawings.
  - 2. SECTION 13283 LEAD PAINT CONTROL MEASURES for requirements of all work which disturbs lead paint. Also, refer to the drawings.

#### 1.2 ASBESTOS

- A. The structure or structures to be renovated or modified under this contract were surveyed for the presence of asbestos containing materials (ACM), using AHERA requirements. A copy of the survey report, as well as any subsequent supplemental survey report(s), if performed, are included in this Section.
  - 1. The report(s) are included, even when no ACM was found, for the Contractor's information. Review the attached report(s) for the basis on which the negative ACM finding was made. Contractor may perform further surveys at its own expense, if ACM not shown in the report(s) is suspected in the areas of the building(s) in which work will be performed. If ACM is found, notify the State immediately. The State will reimburse the Contractor for the testing cost if ACM is found.
  - 2. If there is ACM outside of the areas in which work will be performed, this ACM shall not be disturbed in any way.
- B. If applicable, notify employees, Subcontractors and all other persons engaged on the project of the presence of asbestos in the existing buildings in accordance with the requirements of Chapter 110, Article 12-110-2 (f) (1) (B) of the Occupational Safety and Health Standards, State of Hawaii.
- C. In the event that work is required in any building or buildings on the site other than the one(s) designated within this project scope, request copies of the asbestos survey report(s) for such building(s) from the State. Based on the information contained in the additional

survey(s), notify affected personnel per paragraph entitled "ASBESTOS", item B., hereinabove.

D. The Contractor shall follow all applicable rules and regulations pertaining to the

#### 1.3 LEAD PAINT

- A. The structure or structures to be renovated or modified under this contract were surveyed for the presence of lead paint. A copy of the survey report is included in Inspection Report for Asbestos and Lead-Based Paint.
- B. Inform employees, Subcontractors and all other persons engaged in the project that lead paint is present in the existing building(s) and at the job site. Follow the requirements of Title 12 (Department of Labor and Industrial Relations), Subtitle 8 (Division of Occupational Safety and Health), Chapter 148 (Lead Exposure in Construction), Hawaii Administrative Rules.
- C. The Contractor shall follow all applicable rules and regulations pertaining to the handling, removal and disposal of lead paint.

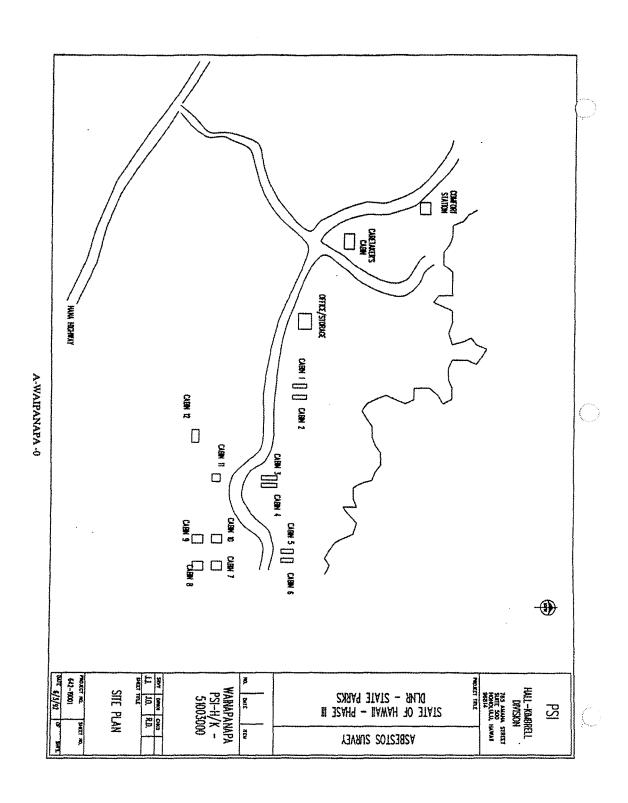
PART 2 - PRODUCTS (Not Used)

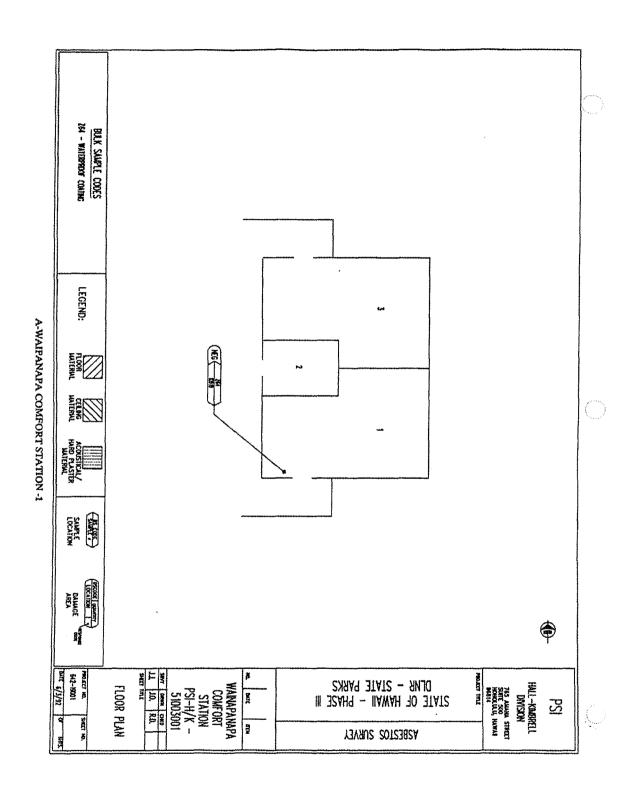
#### PART 3 - EXECUTION

#### 3.1 SURVEY

- A. Asbestos Survey, State of Hawaii, Phase III, DLNR State Parks, attached 84 pages, dated 6/3/92, prepared by PSI Hall-Kimbrell Division.
- B. Asbestos, Lead-Based Paint and Arsenic (Canec) Survey for Wainapanapa State Park, attached 10 pages, dated March 25, 2004, prepared by Vuich Environmental Consultants, Inc.
- C. Limited Inspection Report for Asbestos and Lead-Based Paint, attached 78 pages, dated March 2011, prepared by EnviroQuest, Inc.

**END OF SECTION** 





Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-4

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8	\$0	8	TOTALS	_	AREA #			***************************************					
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												MASE	NS# Sumple # XASB
<b>5</b> 0	<b>\$</b>	g		0	OHZ.	0 sq.ft.	я			usterproof coating		***	Rooms 1, 3
			Reason for Damage: A	ă or	201 101 201 101	Potential for Disturbance: 2	tial for E	Poten	7	Response Action: T	6: 12 5:	Waterproof Coating AMERA Damage Code: 5	** Area 1
S1SCO TOLYT	REPLACEMENT COSTS	DOSTS REMOVAL	CODE POT LEVEL COSTS	1	2002	CLANTITY	. 8g ×	10 PIPE	*	NATERIAL DESCRIPTION	Sdems of	SAUPLE GROUP MUNDER	LOCATION
5	Building Type: Restroom eer Constructed: UNIXW Date Inspected: 12/13/91 Inspector: Ogrodny/Jackman	Building Type: Restr Year Constructed: UNKN Date Inspected: 12/13 Inspector: Ogroc	Yea							Station	Comfort	51003001 DLRR - Walenapanepa THK 1-3-05:09 Meui, HI	Building Number: \$1003001 Building Numbe: DLNR - Walerapenope Comfort Station Address: THK 1-3-05109 Maui, HI
	Page: 129	27				=	SON Phase III	8				19001	Project Number: 64219001

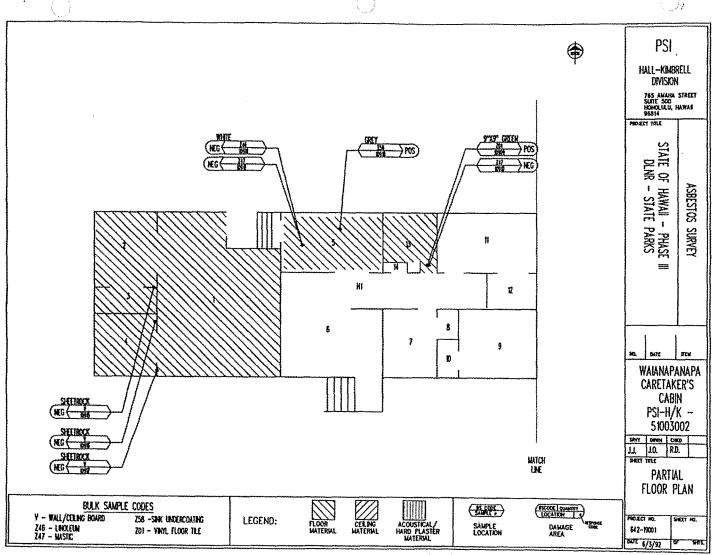
ASBESTOS ASSESSMENT SURVEY

CLIENT: DAG - Asbestos Litigation unit PROJECT #: 64219001 SOH Phase III 0 \* Primary Analysis (Entire Sample) 1-6 \* Subanalyses SAMPLE 10919 ANALY PRIHARY 344 8803 AS TO S ANT

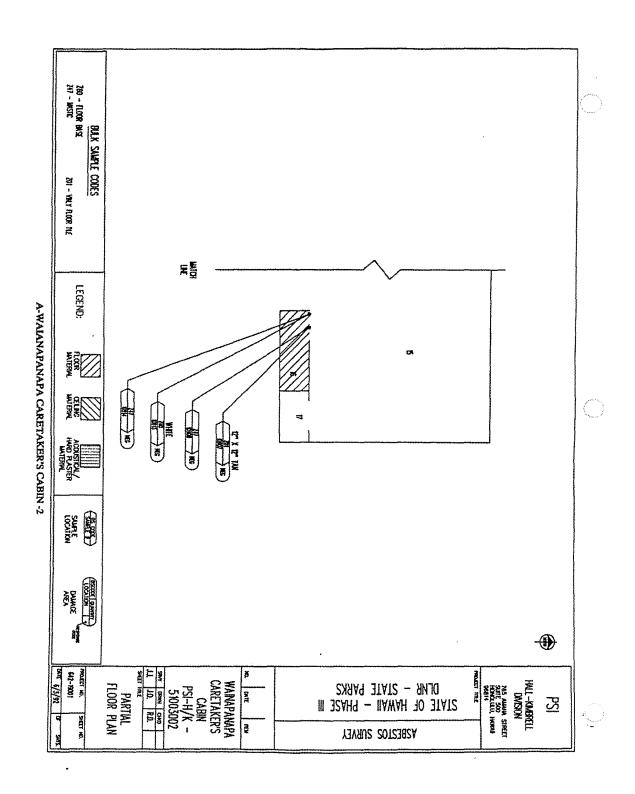
PSI/HALL-KIMBRELL, INC. ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 98 BUILDING: #: 51003001 BUILDING: DLNR - Vaisnapanapa Confort station

	<b>2</b>	i DMI GT	BUILDING NAME: DLWR - Weienapenape Comfort Station	- Walanape t Station	anapa Mara		BUILDING 1.D.: 51003001	1.D.: 5	1003001		PROJECT I	PROJECT NUMBER : 642-19001	19001
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A-WAIANAPANAPA CARETAKER'S CABIN -1



Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-9

## ASBESTOS ASSESSMENT SURVEY SON Phase III

Project Number: 64219001 Building Number: 51003002

Building Name: DLNR - Walamapanapa Caratakar's Cottage

Address : THK 1-3-05:09 Haul, HI Page: 130
Suflding Type: Residence
Year Constructed: UNKN
Date Inspected: 12/13/91
Inspector: Ogrodny/Jackman

LOCATION GR	MPLE HUMB COUP OF FREER SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	CODE	EXP PRIORITY POT LEVEL	RENOVAL I COSTS	REPLACEMENT COSTS	TOTAL
** Area 1 Floor Mat AHERA Dam	erial mage Code: 5	Response Action: 7	Potent	ial for	Disturbance: 2	Reason	for Damage: H			
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MS# Sample # XASB										
2 10908 0 X										
Room 13 - see comments green 94x94	3 1	vinyl floor tile		7X	26 <b>s</b> q.ft.	OKI	14 IV	\$104	\$74	\$178
MS# Sample # XASB										
3 10909 7 X										
Room 13 - see comments green 9"X9"	4 1	mestic		0%	O sq.ft.	OHZ	0	\$0	\$0	\$0

## ASSESTOS ASSESSMENT SURVEY SON Phase III

Project Number: 64219001 Building Number: 51003002

Building Name: DLNR - Weierepenapa Caretaker's Cottage

Address : THK 1-3-05:09 Hauf, HI Page: 131
Suitiding Type: Residence
Year Constructed: UNKN
Date Inspected: 12/13/91
Inspector: Ogrodny/Jackman

LOCATIO			SAIPLE GROUP NUMBER	MANS OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
MS#	Sample #	XASB												
4	10910	0 X												
Rooms 5,	13 - white	tinoteum	5	1	t fnoteum		0%	0 sq.ft.	OHI	Û		\$0	\$0	\$0
MS#	Sample #	XASB												
5	10911	0 %			•									
Rooms 5,	13 - white	tinoteur	. 6	1	mastic		θX	0 sq.ft.	OHZ	0		\$0	\$0	\$0
MS#	Sample #	XASE												
6	10912	0 %												
Rooms 1,	2, 3, 4, 1	6 - White	7	1	floor base		ox	0 sq.ft.	OHZ	0		\$0	\$0	\$0
NS#	Sample #	%A58												
7	10913	0 %												
Rooms 1,	2, 3, 4, 1	6 - White	8	1	mastic		0%	0 sq.ft.	OHZ	0		\$0	\$0	\$0

### ASBESTOS ASSESSMENT SURVEY SON Phase 111

Project Number: 64219001 Building Number: 51003002

Building Name: DLWR - Valanapanapa Carataker's Cottage

Address : TMK 1-3-05:09

Mauf, XI

Page: 132
Suilding Type: Residence
Year Constructed: UNIXX
Date Inspected: 12/13/91
Inspector: Ogrodny/Jackman

	mui, ai											Limpec	tor: oftonial secon	
LOCATION		SAMPLE GROUP MUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY			EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
HS# Sample	# XASB													
8 10914	0 X													
9*x9* Green VI	T and Whi	te Linole	tuca are d	emaged. Other flooring is new.				AREA #		1 1	OTALS	\$104	\$74	\$17
** Area		Colling 8		Response Action: 7	Poten	tial for	Disturbence: 2	Ře	ason	for	Damages, A			•
ooms 1-4 - Sheetr	rock	9	3	wall/celling board		0%	0 sq.ft.	ć	ЖZ	0		\$0	\$0	\$
MS# Sample	# XA58													
9 10915 9 10916	0 X													
9 10917	0 X													
								AREA #		2 1	OTALS	\$8	\$0	
** Ares		- Sink U Domege C		ing Response Action: 7	Poten	tial for	Disturbance: 2	Re	eason	for	Damege: A		······································	***************************************
om 5 - grey		10	1	sink undercoating		20%	1 each	(	OH2	14	īV	\$90	\$289	\$37

Project Humber: 50030901  Building kname: DilRT - Weisnappmape Caretaker's Cottege  Year Constructed: UKKY  Page: 133  Building kname: DilRT - Weisnappmape Caretaker's Cottege  Year Constructed: UKKY  Date Inspected: 12/13/91  Inspector: Ognomy/Jackman  1010168 2073  AREA # 3 107ALS \$500 \$259 \$379	8557	\$363	\$194	OTALS	8	\$UILDING # 51003002 TOTALS									
SOH Phase III  Page: Page: 133  Building Type: Residence Year Constructed: UNKN  Date Inspected: 12/13/91  SAMPLE HAMS PIPE X QUANTITY OWN EXP PRICATTY REMOVAL REPLACEMENT GROUP OF MATERIAL DESCRIPTION ID ASS QUANTITY CODE POT LEVEL COSTS COSTS  NUMBER SAMPS	\$377	\$289		1								**************************************	****		***************************************
SOH Phase III  Page: 133 Building Type: Residence  Veas Constructed: UNKN  Date Inspected: 12/13/91  SAMPLE NUMB GROUP OF MATERIAL DESCRIPTION ID ASS QUANTITY CODE POT LEVEL COSTS COSTS  NUMBER SAMPS  SOH Phase III  Building Type: Residence  Veas Constructed: UNKN  Date Inspected: 12/13/91  And Exp PRICRITY REMOVAL REPLACEMENT  COSTS  SAMPLE NUMBER SAMPS													ğ	10918	<b>3</b>
SOH Phase III  Building Type: Residence Year Constructed: UNKN  Date Inspected: 12/13/91  SAMPLE NAMES SAMPS  SOH Phase III  Building Type: Residence Year Constructed: UNKN  Date Inspected: 12/13/91  SAMPLE NAMES SAMPS  SOH PASS QUANTITY  SOUR EXP PRIGRITY REMOVAL REPLACEMENT COSTS  SON EXP PRIGRITY REMOVAL REPLACEMENT COSTS													# XASB	Sample	75 <b>1</b>
SOH Phase III  Page: 933  Building Type: Residence Year Constructed: UKKN  Date Inspected: 12/13/91  Inspector: Ogrodny/Jackman	89	0513	cosis	1	3	CODE	ATTEMO	Š	ā	MATERIAL DESCRIPTION	SAMPS	; ~			LOCKITO
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SOM Phase III Page: Suilding Type: Residensianspanops Caretaker's Cottage Year Constructed: UNIXI	5	ed: 12/13/91 or: Ogrodny/Jackm	ate Inspect	9						•		3	ect, 81	ress : 11	ă
SOM Phase !!!  Some state of the state of th		ed: UKX	r Construct	Yes						r's Cottage	Caretaker	actementaria	WR - Wal	Name: Di	Building
SOM Phase !!!		pe: Residence	Building Ty										200200	umber: 5:	ailding t
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ASBESTOS ASSESSMENT SURVEY
SON Phase 111

### PSI/HALL-KIMBRELL ENVIRONMENTAL INC. ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: DAG - Asbestos Litigation Unit PROJECT #: 64219001 SOM Phase III

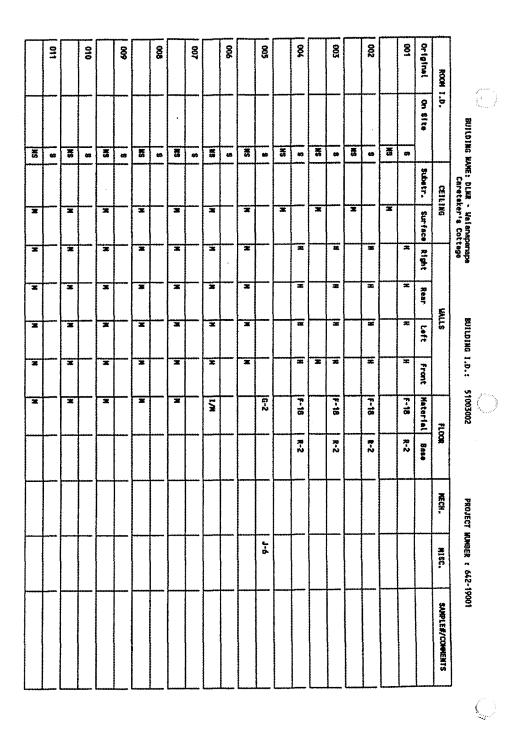
PAGE: 92 BUILDING #: 51003002 BUILDING: DLNR - Waianapanapa Caretaker's Cottage

GROUP#	SAMPLE MANSER	ANALY	TYPE	CONS	HONO	COLOR	TOT ASB	CHRY	AHO	CRO	ANT	ACT /TRE
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7	10913	0	PRIMARY	Y	¥	T	0	0	0	0	0	0
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9	10915	0	PRIMARY	¥	ĸ	T	0	0	0	0	0	0
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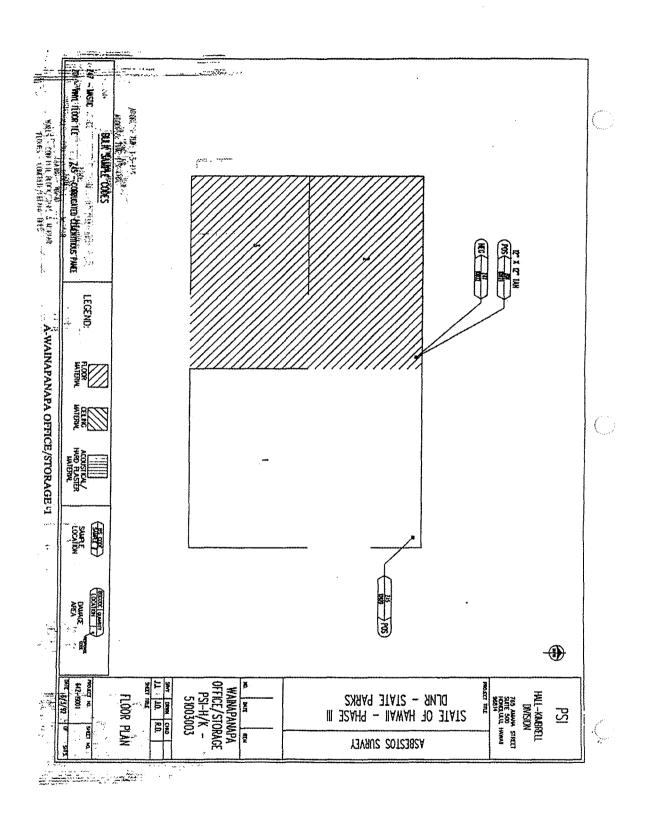
0 = Primary Analysis (Entire Sample) 1-4 = Subenalyses

T = Trace

Job No. F55B642B



,en	SULTO!		SUILDING NAME: DLNR - Valenapenapa Caretaker's Cottage	- Valenap (er's Coti	eriapa tage		BUILDING	BUILDING 1.D.: 51003002	1003002		PROJECT I	PROJECT NUMBER : 642-19001	19001
ROOM 1.D.	1.0.		CEILING	菱		¥.	AYLLS		FLOOR	æ	MECH.	MISC.	SAMPLE#/COMMENTS
Or fg (ria)	On Site		Substr.	Surface Right		Rear	Loft	Front	Material	Sens			
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u	7,	Roome 2, 3 - ten 12ºx12º	N	7	Roome 2, 3 - tan 124x12*	:			7	All rooms - ceiling	:	rocyrlow	Project Kumber: 64219001 Building Number: 51003003 Building Name: DLKR - Weisnepanepa Storage Bidg. Address: TMK 1-3-05:09 Naui, Hi
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о Ж	ž	2#x12	N 24	×	24×12	~ = ±		80%	# XAS#	•	 Ω ≤		64219001 51003003 DLMR - 14 TMC 1-3-1
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		u			N	Floor amterial AHERA Danage Code:				***	Cementitious Panel AHERA Damage Codes	MANAGE GROOM BY MANAGE	o apparat
						Codes					Panel Code:	Scan's sto Barnik	8 ST CO
						us.					UH .	9 " 0	2 2 2 2
		mostic			vinyl floor tile	_				corrugated comentitious panel		XA.	<del>į</del>
					floor	Response Actions		•		8.	Response Actions	NATERIAL DESCRIPTION	
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5	Inspected: 12/13/91 Inspector: Ogrodny/Jackman	Date Inspected: 12/13/91 Inspector: Ogrodny/	9		min digrapher and the contract						8
	Storage 133	Building Type: Storage Year Constructed: UNIXI	**************************************			944 244 244	SON Phase III	8	Bldg.	mapanapa Storage Bldg.	edecedes

ASBEGTOS ASSESSMENT SURVEY
SON Phase III

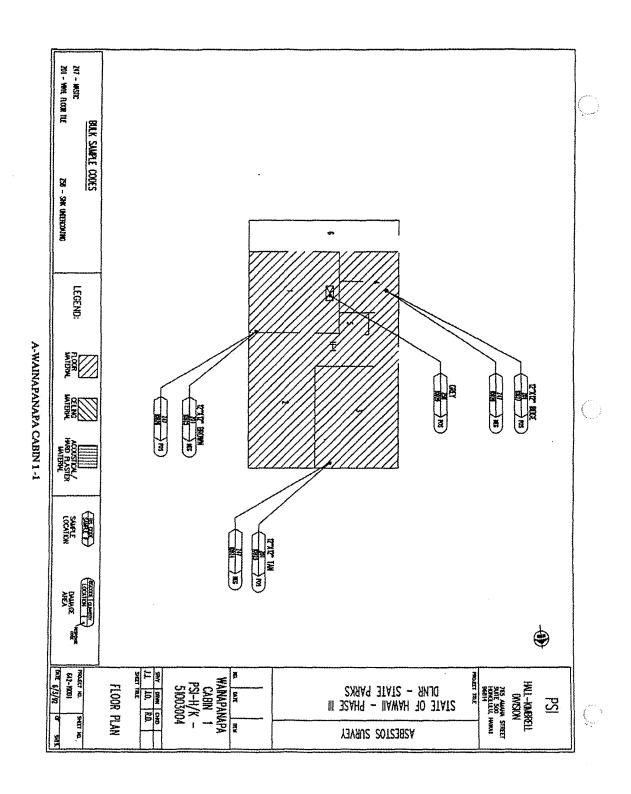
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PSI/HALL-KIMBRELL, INC. ASBESTOS PETROGRÁPHIC ANALYSIS

CLIENT: DAG - Asbestos Litigation unit PROJECT #: 64219001 SON Phase III

BUILDING #: 51003003 BUILDING #: 51003003

	BUILDE	S N	BUILDING HAME: DLWR - Walenapanapa Storage Bldg.	- Walenapa e Bldg.	ecens	_	BUILDING 1.D.: 51003003	1.0.: 5	1003003		PROJECT )	PROJECT MUMBER : 642-19001	19001
ROOM	ROOM I.D.		כבורווופ	BME		MILLS	rs.		800A	æ	MECH.	MISC.	SAMPLE#/COMMENTS
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Project Mumber: 64219001				ASBESTOS ASSESSMENT SURVEY	~				Page:	 136	
Building Number: 51003004 Building Number: 51003004			Cabin #1					Year	Building Type: Residence Year Constructed: UNIXX	Residence	
Address : THK 1-3-05109	8	į	2					9	Date Inspector: lackwary(	Impector: Jackman/Ogrodny	
TOCKLION	SYMPLE SYMPLE	24 E	WATERIAL DESIRIPTION	PIPE X QUANTITY		CODE POT	ŧ	PRIORITY LEVEL	REHOVAL RE	REPLACEMENT COSTS	TOTAL COSTS
** Area : Floor	Floor Material AMERA Damage Code: 5	<b>3</b> 2	Response Action: 7	Potential for Disturbances	~	SOO TO	), 10.	Reason for Damage: A			
Rooms 2, 3, 5, N1 - tan 124x12**	***		vinyl floor tile	2X 300	300 sq.ft. OHI		đ	¥	\$1,200	\$949	\$2,049
HS# Sample # MASB											
1 10923 2 X											
Rooms 2, 3, 5, H1 - ten 12*x12**	N		mastic	<b>5</b>	0 eq.ft. OHZ	Ā	0		*	8	\$
HS# Sumple # XAS9											
2 10924 0 %											
Room 1 - brown 124x124	isi.	-	vinyl floor tile	<b>9</b>	0 sq.ft. OH	=	0		8	*	8
NS# Sample # XASB											
3 10925 0 X											
Room 1 - brown 12*x12*	•	-		ZX 120	120 aq.ft. CHZ		댸	7	1480	\$340	\$820

Room					Room			Room			Ę.		901	Build	Proj
Room 1 - grey	** Area		<b>5</b> ►	#S#	Room 4 - beige 12*x12*	u	HS#	Room 4 - beige 12*x12*	*	NS.	LOCATION		Address : TWX 1-3-05:09	Building Number: 51003004	Project sumber: 64219001
ş	<b>3</b>	***************************************	10928	Sample # XASB	ilge 12	10927	HS# Sample # XASB	ige 12	10926	Sample # XASB		-	Address : THK 1-3-05:09	mber:	moer:
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-	Nisc Sink Undercoating AHERA Damage Code: 5				**						2 of 8		Maryan		
s ink	Bell				mastic			viny					CHOSSI	3	
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sink undercoating	Response Actions 7							1			NATERIAL DESCRIPTION				
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	Pot										D D D				
20%	Potential for Disturbance: 2							Ut			ž ×				TIT BREUK HOS
¥	for Di				ន្ត			×							111 22
	sturba				0			50 4			ALLLINNO				
each	2 2				0 sq.ft.			50 sq.ft.			77				
		AREA #													
982	20 mm	*			92			3			00£				
٠	yn for				0			ä			3 8				
¥	Reason for Damage: A	1 TOTALS						₹			PRIORITY				
,	>										. 3		Date	Bui	
<b>\$</b>		\$1,880			*			\$200			REMOVAL COSTS	i de	e inspected: 12/13	2	
		1			-						25	ctors	cteds	Ä	rage:
		11,331									REPLACEMENT	jackaar	Date Inspected: 12/13/91	Building Type: Residence	
\$289		펿			8			\$142			=	Imagestor: Jackmen/Ogrodny	<b></b>	5	Ş
											8 7	¥			
\$379		<b>83,211</b>			8			\$342			TOTAL TOTAL				

		7 10929 20%	HS# Sample # MS#	EARPLE GROUP HUNGER	Project Rumber: 64219001 Building Number: 51003004 Building Numme: DLNR - Walermapermape Rental Cobin #1 Address : TMX 1-3-05:09 Moul, HI
				SAMPLE HANG GROUP OF MANGER SAMPS	apa Renti
			•	#ATERIAL DESCRIPTION PS	ni Cebin #1
				PIPE ID /	ASBESTOS ASS
<b>2</b>				X ALLINYON BSW	ASBESTOS ASSESSMENT SURVEY SOM Phase III
8JILDING # 51003004 TOTALS	AREA #			3000	
101ALS	2 TOTALS			OM EXP PRIORITY	T A
\$1,970	\$90			RENOVAL COSTS	Pa Building Ty mar Construct Date Inspect Inspect
\$1,620	\$289			REPLACEMENT	Page: 138 Building Type: Residence Year Constructed: UHKN Date Inspected: 12/13/91 Inspector: Jackman/Ogrodny
\$3,590	\$379			COSTS	i

0 = Primery Armiysis (Entire Sample) 1-4 = Subarmiyses

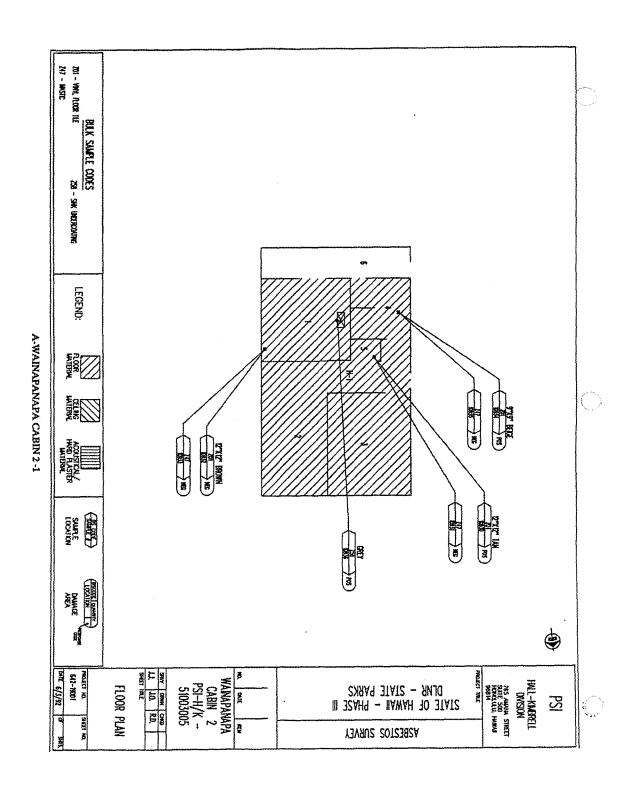
GROUP# SAMPLE NUMBER 10925 10924 10923 AXALY PRIMARY PRIMARY PRIMARY PRIMARY PRIMARY PRIMARY TYPE SHOO 1000 20103 \$ 0 Š

PSI/HALL-KINBRELL ENVIRONMENTAL INC. ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: DAG - Asbestos Litigation Unit PROJECT #: 64219001 SON Phase III

PAGE: 94 BUILDING #: \$1003004 BUILDING: DLRR - Veienapenape Rental Cabin #1

, m	#IO1M	£	BUILDING KAME: DLNR - Walanapanapa Rental Cabin #1	- Valamap Cabin #1	anapa		DKIGIUB	BUILDING 1.D.: 51003004	\$100300¢		PROJECT	PROJECT NUMBER : 642-19001	19001
ROOM 1.D.	1.0.		CEILING	苦		¥	MITTS		#LOOM	X.	MECH.	NISC.	SAMPLE#/COMMENTS
Original	On Site		Substr.	Surface	Right	Rear	Left	front	Material	8656			
001		*							F-16			J-6	
		25		*	*	34	×	×					
902		48						-	F-18				
		20		*	*	×	*	×					
003		8							F-18				
		*		×	*	×	*	*					
004		8							7-7				
		##		*	*	*	*	*					
905		8							F-18				
		*		*	*	*	*	×					
906		65											
		2		**	***	×	*	.H.	X				
*-1		*							F-18				
		25		*	×		2	*	*******				



Room 1 - brown 12"x12"	3 10932 0 X	₩.	2 10931 0 X	HS# Sample # MASB	Rooms 2, 3, 5, H1 * ten 12*x12**	1 10930 20X	HS# Sample # 7ASB	Rooms 2, 3, 5, H1 - ten 12×x12**	## Area 1 Ft	LOCATION	Project Number: 64219001 Building Number: 51003005 Building Name: DLNR - Walendperape Rental Cabin #2 Address: 17MX 1-3-05:09
*	en de	i Lat	•	**	N	•	Cár	***	Floor Material ANERA Damage Code: 5	KUMBER CHOUP SAMPLE	1 Uniferaperape 5 1
		***			**				6: 5	OF SAMPS	Rental
mostic		vinyl floor tile			nestic	•		vinyi floor tile	Response Action: 7	MATERIAL DESCRIPTION	
93		2			\$			20%	Potential for Disturbance: 2	PIPE X 10 ASB	ASSESSION ASSESSMENT SURVEY SOM Phase III
0 sq.ft.		0 sq.ft.			0 sq.ft.			120 sq.ft.	sturbance: 2	CUANTITY	ZWVEY
2		9			92			9	Resso	3000	
0		0			•			=	for	79 EX	
								7	Reason for Damage: A	PRIORITY LEVEL	8u Year i Dat
*		<b>\$</b>			8			<b>\$</b> 480		EMOVAL COSTS	* P ==
8		5			*			\$340		REPLACEMENT COSTS	Page: 139 Suilding Type: Residence ear Constructed: UNKN Date Inspected: 12/13/91 Inspector: Jackman/Dgrodny
*		*			*			\$820		TOTAL	*

ASBESTOS ASSESSMENT SURVEY

# Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-30

Job No. F55B642B

ASBESTOS ASSESSMENT SURVEY SOH Phose 111

Project Number: 64219001 Building Number: 51003005

Building Name: DLMR - Walanapanapa Rental Cabin #2

Address : TMX 1-3-05:09

Maul, HI

Page: 140
Building Type: Residence
Year Constructed: UNKH
Date Inspected: 12/13/91

Inspector: Jackman/Dgrodny

LOCATIO	N		SAMPLE GROUP NUMBER	OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUARTITY	CODE	POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL
HS#	Sample #	XASB												
4	10933	0 X												
toom 4 - I	beige 9°x9	*	5	1	vinyl floor tile		20%	50 aq.ft.	OHI	11	IV	\$200	\$142	\$342
HS#	Sample #	XASB												
5.	10934	20%												
toom 4 I	beige 9*x9	Ħ	6	1	mestic		OX.	0 eq.ft.	OHZ	0		\$0	\$0	\$0
#s#	Sample #	RZAX												
6	10935	0 X												
									AREA #	1	TOTALS -	\$680	\$482	\$1,162
** 4	ires		Sink U L Damage C		ting Response Action: 7	Poten	tfal for	Disturbence: 2	Reaso	n for	Daminge: A	***************************************	·····	
Room 1 -	grey		7	1	sink undercoating		20X	1 each	OHZ	9	IV	\$90	\$289	\$379

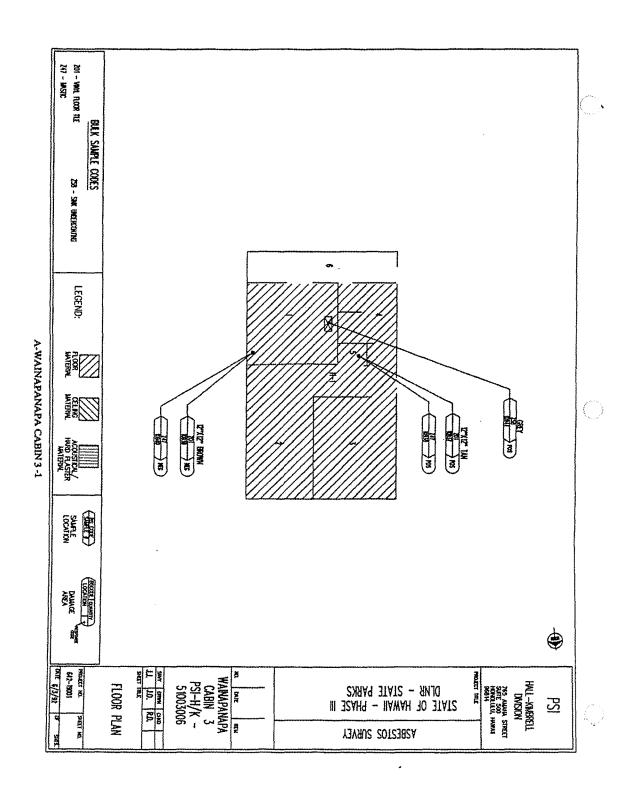
\$1,541	\$771	\$770	DIALB	1300S 1	BUILDING # 51003005 TOTALS									
\$379	\$289	\$90	2 TOTALS	2	AREA #				Management of the property of					l
												203	10936	~
												# XXSB	Sample # XASB	#S#
COSTS	REPLACEMENT	REMOVAL	OSM EXP PRIORITY	55 EX	OSA SOCO	ALLINVID	ž ×	10 3414	MATERIAL DESCRIPTION	SANYS OF BATH	MARKE GROUP SWADE			LOCATION
Æ Æ	Omstructed: UMKN Impacted: 12/13/91 Impactor: Jackmen/Ogrodny	Year Constructed: UMICA Date Inspected: 12/13 Inspector: Jacks	70						sin #2	Rental Cab	Building Resse: DLWR - Weistaperape Rentel Cabin #2 Address : THK 1-3-05:09 Haul, HI	DLMR - Wa 1982 1-3-0 Maui, HI	ding Name: DLWR - Walknam Address : TWX 1-3-05:09 Naui, NI	Add
	Page: 141 Building Type: Residence	Building Ty	_			SON Phase III	SON Phase III	80				4219001 1003005	Project Number: 64219001 Building Number: 51003005	ing H

0	0	•	8	20	6	~	4	PRIMARY	0	10936	7
0	0	۰	0	0	~	4	~	PRIMARY	0	10935	٠
0	0	0	8	26		4	~	PRIMARY	0	10934	un
0	<b>~</b>	0	0	۰	<b>CD</b>	æ	*	PRIMARY	۰	10933	•
0	0	0	0	0	<b>183</b>	~	4	PRIMARY	0	10932	Lef
0	•	0	0	٥.	*	₩	4	PRIMARY	•	10931	N
0 0	0	0	83	20	-	¥	*	PRIHARY	0	10930	-
ANT /TRE	CXO	<b>(M</b> )	CHRY	101 ASB	COLOR	HOMO	CONS	TYPE	ANALY	HAMBER	gkdrox8

PAGE: 102 BUILDING #: 51003005 BUILDING: DLWR ~ Waismapenapa Rental Cat

PSI/HALL-KIMBRELL, INC. ASBESTOS PETROGRAPHIC ANALYSIS

	MICHIN	8	BUILDING NAME: DLMR - Walanapanapa Rental Cabin #2	Valanap Cabin #2	anapa		BUILDING	BUILDING 1.D.: 51003005	1003005		PROJECT	PROJECT MANBER : 642-19001	19001
ROOM I.D.	I.D.		CEILING	35		STTM	LS		¥LOOR	93	MECH.	MISC.	SAMPLE#/COMMENTS
Original	On Site		Substr.	Surface Right	Right	Rear	Left	Front	<b>Material</b>	8448			
001		8							F-16			J-6	
		#5		*	*	=	*	38					
002									F-18				
		3		*	*	*	34.	ж					
003		*							F-18				
		8		*	*	*	*	*					
700		<b>S</b>							E-7				
		*8		*	1	¥	*	×					
800		8							F-18				
		ä		*	*	<b>3</b> E	*	×	-				
98		*			,								
		35		**	*	*	×	×					
=		<b>9</b>							F-18				
		₹		*	*		*	Z					



# Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-35

Job No. F55B642B

ASBESTOS ASSESSMENT SURVEY

SOH Phase III

Project Humber: 64219001 Building Humber: 51003006

Building Home: DLNR - Valenspenope Rental Cabin #3

Address : THK 1-3-05:09

Haui, Ni

Page: 142
Building Type: Residence
Year Constructed: UNKN
Date Inspected: 12/13/91
Inspector: Jackman/Ogrodny

LOCATION	BANDLE GROUP SUMBER	MANS OF SAMPS	NATERIAL DESCRIPTION	PIPE IO	X ASB	QUARTETY	CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL
	iaterial Ommage Co	oder 5	Response Actions 7	Potent	fat for	Disturbance: 2	Reason	for	Damage: A			
Rooms 2, 3, 5, H1 - tan 124x124	, 1	1	vinyl floor tile		5 <b>X</b>	300 sq.ft.	OHI	11	17	\$1,200	\$849	\$2,049
HS# Sample # %ASB												
1 10937 5 X			•									
Rooms 2, 3, 5, H1 - tan 12"x12"	2	1	mastic		5%	300 sq.ft.	OHZ	11	14	\$1,200	\$849	\$2,049
MS# Bample # XAS8												
2 10938 5 X												
Rooms 1, 4 - brosm 12*x12*	3	1	vinyl floor tile		0%	0 aq.ft.	1110	0		\$0	\$0	\$0
MS# Sample # XASB												•
3 10939 0 %												
Rooms 1, 4 - brown 12*x12*	4	1	matic		ox	0 sq.ft.	OKZ	8		\$0	\$0	\$0

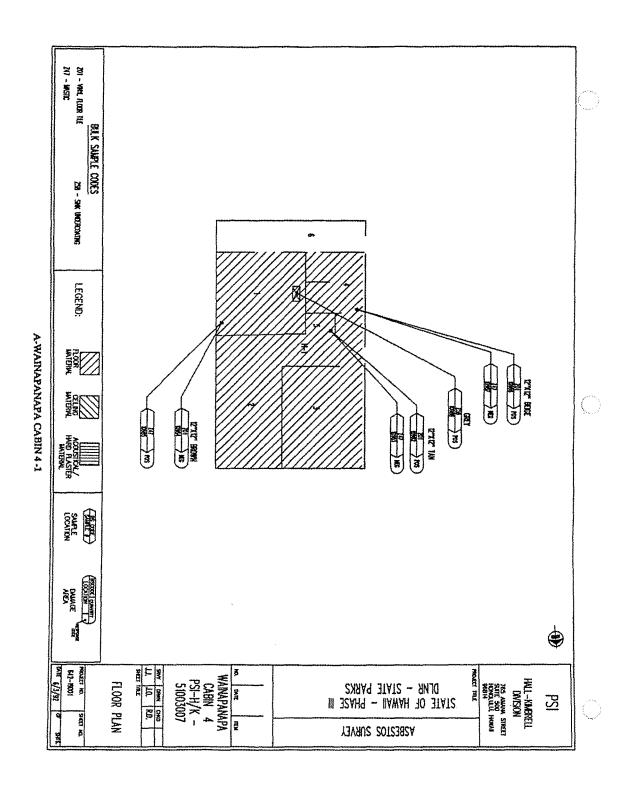
SAMPLE MANSER SAMPS  PIPE X  GROUP OF MATERIAL DESCRIPTION 1D ASS QUANTITY  MANSER SAMPS  MANSER SAMPS  MANSER SAMPS  MANSER SAMPS  AREA Demange Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A Room 1 - grey  MSS Sample # XASB  5 1934; 10X  AREA Demange Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A Room 1 - grey  MSS Sample # XASB  AREA 2 107ALS  AREA 2 107ALS		Bill 187 & KADADA 1874 1874	The second secon		
SAMPLE MARKS GROUP OF MATERIAL DESCRIPTION 1D ASS QUANTITY HOMBER SAMPS  AND O X  2 Misc Sink Undercoating ANERA Demage Code: 5 Response Action: 7 Potential for Disturbance: 2  ANERA Demage Code: 5 I sink undercoating 10x 1 each  5 I sink undercoating 10x 1 each  5 1 sink undercoating	2 TOTALS	AREA #			
SAMPLE MARKS  GROUP OF MATERIAL DESCRIPTION 1D ASS QUANTITY  MINISER SAMPS  AND U X  2 Misc Sink Undercoating ANEA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2  ANEA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2  S 1 Sink undercoating  5 1 Sink undercoating  10x 1 each					
SAMPLE MAMES GROUP OF MATERIAL DESCRIPTION 1D ASS QUANTITY HUMBER SAMPS  TIPLE # 7458  PAG 0 %  PAG 0 %  AREA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2  AREA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2				-	
SAMPLE MAME PIPE X GROUP OF MATERIAL DESCRIPTION 1D ASS QUANTITY HUMBER SAMPS  Somple # XASB  10040 0 X  ANEXA Demage Code: 5 Response Action: 7 Potential for Disturbance: 2	· <b>v</b> o		10X	***	3 - gray
SAMPLE MANSER SAMPS PIPE X COM EN GROUP OF MATERIAL DESCRIPTION 1D ASS CHANTITY CODE PARTICLE SAMPS  Somple # 74.58  10940 0 X  AREA # 1	or Dr		Potential for Distu		N
SAMPLE MANSE PIPE X OAA GROUP OF MATERIAL DESCRIPTION ID ASS QUANTITY CODE NUMBER SAMPS  Somple # XASB	1 TOTALS	MEA #		*	
SAMPLE MANS PIPE X COM CROUP OF MATERIAL DESCRIPTION ID ASS CHANTITY CODE NUMBER SAMPS Scriple # XASS					
SAMPLE MANS GROUP OF WATERIAL DESCRIPTION ID ASS QUANTITY CODE HUNGER SAMPS				-	
	3 8		AS *	SAMPS	AT 10#
					Project Mumber: 64219001

SAMPLE SAME ANALY TYPE COMS HONG COCOR ASS CHRY AND CRO ANY /TRE 10937 O PRIMARY W W B 5 5 0 0 0 0 0 10 10938 O PRIMARY W W B 5 5 0 0 0 0 0 0 10940 O PRIMARY W W B 0 0 0 0 0 0 0 10940 O PRIMARY W W B 0 0 0 0 0 0 0 0 10940 O PRIMARY W W B 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					race	T = Trace			e.	ntire Sampl	ysis (E	# Primary Analysis (Entire Sample)	•
ANALY TYPE CONS HONO COLOR ASB CHRY AND CRO ANT  O PRIMARY Y Y I 5 5 0 0 0  PRIMARY Y Y B 0 0 0 0 0  PRIMARY Y Y B 0 0 0 0 0  PRIMARY Y B 0 0 0 0 0	·	0	0	•	10	ő	6	4	*	PRIMARY	٥	10941	-
ANALY TYPE CONS HONO COLOR ASB CHRY AND CRO ANT  O PRIMARY Y Y B 5 5 0 0 0  O PRIMARY Y W B 5 5 0 0 0  O PRIMARY Y W B 5 5 0 0 0	ø	0	0	0	0	0	ÇE	**	**	PRIMARY	0	10940	*
AMALY TYPE COMS HONO COLOR ASB CHRY AND CRO ANT  O PRIMARY Y Y T 5 5 0 0 0 0	0	0	0	0	0	٥	<b>0</b>	~	4	PRIMARY	0	10939	<b>Luf</b>
ANALY TYPE COMS HONO COLOR ASB CHRY AND CRO ANT	0	•	φ.	•	ur	Ų.	<b>0</b>	*	×	PRIMARY	0	10938	N
ANALY TYPE COMS HONO COLOR ASB CHRY AND CRO ANT	0	0	0	٥	u	y,	1	-4	~	PRIMARY	0	10937	-
TO T	ACT FRE	l.	CD 1	AHO		ASB	COLOR	HONG	CONS	TYPE	ANALY	SAMPLE	GROUP#
		<b>*</b>	77 78	, ,,									

PSI/HALL-KINBRELL, INC. ASBESTOS PETROGRAPHIC ANALYSIS

Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-37

	Bulton	8	BUILDING WANE: DLHR - Veisnapanapa Rental Cabin #3	Veienep	anapa	_	BUILDING 1.D.: 51003006	1.D.: 5	1003006		PROJECT	PROJECT NUMBER : 642-19001	19001
ROOM I.D.	1.0.		CEILING	¥G	-	RYTER	18		FLOOR	æ	MECH.	*isc.	SAMPLE#/COMMENTS
Original	On Site		Substr.	Surface Right	Right	Xear	Left	Front	Material Base	8000			
001		œ							F-16			9-F	FROM 2
		***		*	*	*	**	*					
002		¢p.							F-18				FROM 1
		¥5		×	*	32	*	¥					FROM 1
003		s							F-18				
		**	:	*	*	*	*	*					
904		**							F-16				
		NS.		**	×	*	*	*					-
905		C4							F-18				
		2		*	*	I	*	*					
986		20											
		5,8		*	*	×	¥	2	×				FROM 1
#-1		*							F-18				
		3		*	*		*	*					FROM EXT.



Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-39

Room 1 - brown 124x12*		KOOM 1 - DEGMEN 12"X12"  KS# Sample # XASB	2 10985 0 X	MS# Sample # XASS	Roces 2, 3, 5, H1 - ten 12*x12*	1 10982 2 %	NSW Sample W MSS	Rooms 2, 3, 5, 81 - tan 12*x12**	** Area 1 Floor Material ANTERA Demage C	LOCATION	Project Number: 64219001 Building Number: 51003007 Building Number: DLNR - Veienspenspe Rental Cabin #4 Address: THK 1-3-05:09 Moul, NI	
*		•	•		N		•	***	Floor Material AMERA Demage Code: 5	SWADTE CHOMB	supersupa R	
			•		-			***	<u>₹</u>	SAMYS Ot MCMB	entet	
mestic		Viryl floor tile			meetic			vinyt floor tile	Response Action: 7	WATERIAL DESCRIPTION	Cabin #4	
10X 12		ş			8			<b>%</b>	Potential for Disturbence: 2	PIPE X QUA	ASBESTOS ASSESSMENT SURVEY SOH Phase III	0
129 sq.ft.		0 sq.ft.			0 mq.ft.			300 sq.ft.		CHANTE	24	
였		9	ľ		200			2	Resson	200 M		
ಚ	,	٥	,		•			댸	for D	POT		
W						•		¥	Resson for Dawager HF	PRIORITY LEVEL	Te ar ar	
\$480		8	<b>;</b>		8			\$1,200		SISCO	Page: Building Type: Resid Year Constructed: INKN Date Inspector: Jacks Inspector: Jacks	
\$340		<b>5</b>	}		8			\$849		REPLACEMENT COSYS	Page: 144 Building Type: Residence ear Constructed: UNIXI Date Inspected: 12/13/91 Inspector: Jackman/Ogrodny	(Carlo
<b>\$</b> 620		5	:		*			\$2,049		TOTAL	*	

\$379	\$289	\$90	¥	*	9	1 each	20%		sink undercoating	*ink	***	~		Room 1 - gray	Room
			rege: A	for Da	Reason for Demoget A	Potential for Disturbance: 2	ntial for Dis	Pote	Response Action: 7	outing 5	Underc	Wise Sink Undercoating AMERA Summage Code: 5	۰ <u>۳</u>	4# Area	
\$3,211	\$1,331	\$1,880		1 TOTALS	AREA #									***************************************	1
												•	7 0 *	6 10987	
												##	Sample # XASB	HS# Samp	
5	\$	8		0	2	0 sq.ft.	Я		ัตั	mostic	t	•	12"x12#	Room 4 - beige 12"x12"	Room
												•	5 × ×	5 10986	
												*	Sample # XASE	HS# Samp	
\$342	\$142	\$200	₹	겳	ĕ	50 sq.ft.	¥		vinyl floor tite	vinyl		•	12*x12*	Room 4 - beige 12*x12*	Room
												•	iox	4 10985	
												ä	Sample # %ASB	HS# Sampi	
TOTAL	REPLACEMENT COSTS	PRIGRITY REMOVAL LEVEL COSTS	LEVEL	2 E 2	000	CHATTEY	\$ ×	PIPE	NATERIAL DESCRIPTION		SWADS STANDS	SAMPLE GROUP HUNGER		LOCATION	5
₹	Page: 145 Building Type: Residence ear Constructed: UNIX3 Date Inspected: 12/13/91 Inspector: Jackman/Ogrodny	Page: Building Type: Resid Year Constructed: UNIX Date Inspector: 12/13 Inspector: Jacks	Yesy Da			NAKA ABAME	ASSESTOS ASSESSMENT SURVEY SON Phase III	ASSESTOS SURSESTOS	*	at cabin	R ent	Valenaperat	64299001 53003007 DLNR - W THK 1-3-1 Neul, HI	Project Rumber: 64299001 Building Humber: 51003007 Building Namo: DLNR - Valenapenape Rental Cobin #4 Address : TMK 1-3-05:09	Build
	Į.						(						(	jen.	

	_ •		17 Walanap
		SAMPLE GROUP MUNGER	if (7) Vafanapanape Rentel Cobin #4 (6)
		School Ob Marke	Rental c
		MATERIAL DESCRIPTION	abin #4
		B GI	ASSESTOS ASSESSMENT SURVEY SON Phase !!!
		>58 ×	SON Phase 111
		ALLLINNO	T SURVEY
BUILDING # 51003007 TOTALS	AREA #	02H	
5007	N	P 65	
TOTALS	2 TOTALS	OM EXP PRIORITY REMOVAL	Yea
\$1,970	<b>\$</b>	REMOVAL	Page: Building Type: Resid Year Constructed: UNKN Date Inspected: 12/13
\$1,620	\$289	REPLACEMENT COSTS	Page: 146 Building Type: Residence ear Constructed: UNIXI Date Inspected: 12/13/91 Inspector: Jacksan/Ogrodny
\$3,590	83779	TOTAL	*

10982 10984 PRIMARY PRIMARY PRIMARY PRIMARY PAAL COHS

0 = Primary Analysis (Entire Sample) 1-4 = Subanalyses

PSI/HALL-KINBRELL, INC. ASBESTOS PETROGRAPHIC ANALYSIS

ASS.

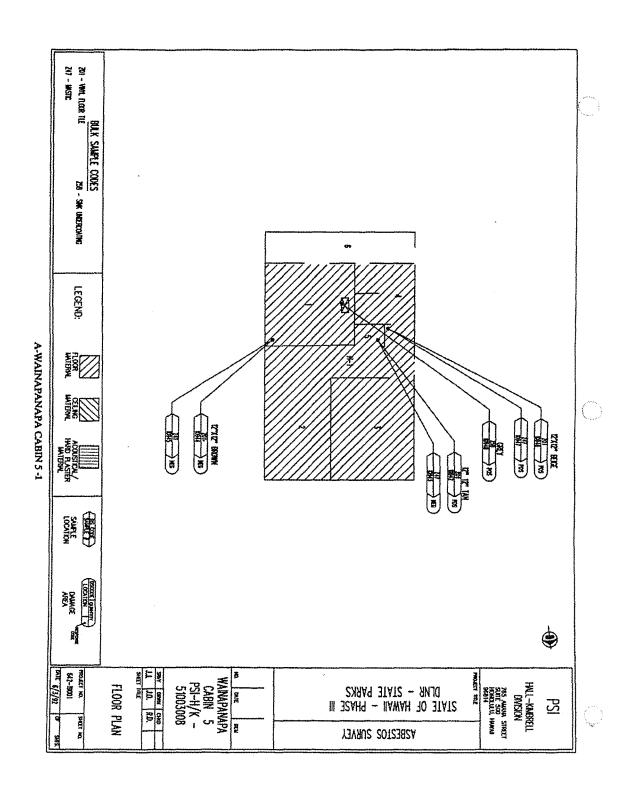
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CLIENTY DAG - Asbestos Litigation unit PROJECT #: 64219001 SOH Phase III

PAGE: 104 BUILDING #: 51003007 BUILDING: DLNR - Valenspanapa Rental Cabin #4

	euro:	<u> </u>	BUILDING MANE: DLNR - Walenapenape Rental Cabin #4	. Valerup Cebin #4	ecens		BUILDING 1.D.: 51003007	1.0.:	\$1003007		PROJECT	PROJECT MANBER : 642-19001	-19001
ROCH 1.D.	I.D.		CEILING	IXG		£	WILLS		FLOOR	×	ÆQ.	MISC.	SAMPLE#/COMPENTS
original	On Site		Subetr.	Surface Right	Right	XC#1	10/1	Front	Katerial Suce	8446			
901		5							F-16			9.4	FROM 2
		š		*	<b>36</b>	*	×	*					
002		9							F-18				FROM 1
		×		*	**	*	×	*					
003		\$							F-18				
		**		×	*	2	*	*					
004		80							F-7				
		X.		×	*	*	*	×					
005		8	-						F-18				
		**		*	*	*	×	×					
006		85										_	
		**		*	×	*	*	×	×				FROM 1
#-1	-	*							F-18				FROM EXT.
		**		2	*		*	*					



										Į.	
Project Number: 64219001	<b>3</b>			ASBESTOS ASSESSMENT SURVEY	*				Page:	167	
Building Mumber: 51003008 Building Mame: DLNR - Waierepermpa Rental Cabin #5 Address : INK 1-3-05:09 Maui, NI	Maileraparagoa R 3-05:09	ental	Cabin #5					Year C	* 8 <del>*</del>	ding Type: Residence matructed: UNKN Inspected: 12/13/9! Inspector: Jackman/Ogrodny	
LOCATION	STANDIE BYDD	SANDS OF	MATERIAL DESCRIPTION	TID ASA GIJAHTITY X 3914		1	\$ P	PRIORITY R	SLSCO	REPLACEMENT	TOTAL
** Area 1 *	floor Material ANERA Demage Code: 5	ă.	Response Action: 7	Potential for Disturbance: 2		1	9	Reason for Damage: A			
Rooms 2, 3, 5, %1 - ten 12×12×		**	vinyl floor tile	15% 300	300 sq.ft. ON		=	¥	\$1,200	\$849	\$2,049
MS# Sample # %ASB	<b>S</b>										
1 10942 15X	*		4								
Rooms 2, 3, 5, 81 - tan 12"×12"	N	**		2	0 sq.ft. D	2	۰		8	8	<b>5</b>
HS# Sumple # XASB	8										
2 10943 0 X	×										
Room 1 -brown 12*x12*	ч		vinyl floor tile	92	0 sq.ft. OH	*	0		\$	8	*
NS# Sample # XASB	8										
3 10944 0 X	×										
Room 1 - brown 124x12*	*	-	aestic	9 <b>x</b>	0 sq.ft. O	22	0	,	8	8.	*

## ASBESTOS ASSESSMENT SURVEY SOR Phase [1]

Project Number: 64219001 Building Number: 51003008

Building Name: DLNR - Valenepanapa Rental Cabin #5

Address : THK 1-3-05:09

Moul, Hl

Page: 148
Building Type: Residence
Year Constructed: UNICN
Date Inspected: 12/13/91

Inspector: Jackman/Ogrodny

LOCATION		, , , , , , , , , , , , , , , , , , ,	SAMPLE GROUP MUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUART 1 TY	CODE	EXP POT	PRIORITY LEVEL	REHOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
HS#	Sample #	XASE												
4	10945	0 X												
oom 4 - be	eiga 12°x	12*	5	†	vinyl floor tile		2%	50 sq.ft.	CHI	11	14	\$200	\$142	\$34
HS#	Sample #	XASB												
5	10946	2 X			,									
100m 4 - be	oige 12°x	12*	6	1	mestic		2%	50 sq.ft.	OHZ	11	IV	\$200	\$142	\$34
#S#	Sample #	7A58												
6	10947	2 X												
									AREA #	. 1	TOTALS	\$1,600	\$1,133	\$2,73
** Are	es		Sink U L Damage C			Poten	tial for	Disturbance: 2	Reaso	n for	Damage: A			
loom 1 - gi	rey		7	1	sink undercoating		20%	1 each	OKZ	9	17	\$90	\$289	\$379

\$3,112	\$1,422	\$1,690	TOTALS	BUILDING # 51003008 TOTALS	避	٠		^					
778	\$289	\$90	2 TOTALS	AREA # 2									
											48 20%	10948	7
										•	Sample # XASB	\$5 \$6	*
TOTAL	REPLACEMENT	Y REHOVAL COSTS	EXP PRIORITY	OM EXP PRIORIT	ALLLMOO	A BS	PIPE	MIERIAL DESCRIPTION	SARYS OF B	SAMPLE GROUP SURRER		9	COCATION
day.	Page: 149 Building Type: Residence ar Constructed: UNKM hate Inspected: 12/13/91 Inspector: Jackmen/Ogrodny	Page: Bufiding Type: Resic Bufiding Type: Resic Year Constructed: UNKN Date Inspected: 12/13 Date Inspector: Jacks	*		Y SURVEY	SOH Phase III	ASBESTOS ASSESSMENT SURVEY SOM Phase III	in 3%	Rental Cabi	roject Number: 64219001 illding Number: 51003008 Building Numbe: DLNR - Wafarapenape Rental Cabin #5 Address : THK 1-3-05:09	Project Number: 64219001 Building Number: 51003008 Building Number: DLHR - Weissel Address: THK 1-3-05:09 Naui, Hi	t Kurbe g Kurbe ling Kasa Address	Projec Buildin
					•	<u> </u>						يا ووالعمال	

Job No. F55B642B

## PSI/HALL-KIMBRELL, INC. ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: DAG - Ambestom Litigation unit PROJECT #: 64219001 SOM Phase III

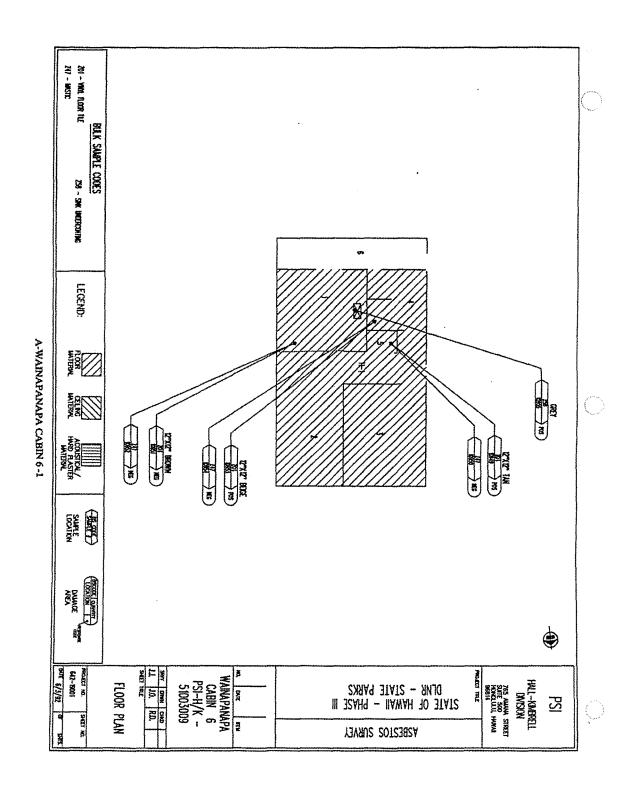
PAGE: 105 BUILDING #2 51003008 BUILDING: DLNR - Watanapanapa Kental Cabin #5

		***************************************			******			·····	ASI	8 6 8 .	101	M
GROUP#	SAMPLE NUMBER	AHALY	TYPE	CONS	Ноно	COLOR	TOT ASB	CHRY	AHO	CRO	ANT	ACT /TRE
1	10942	0	PRIMARY	۲	Y	Ţ	15	15	0	0	0	0
2	10943	0	PRIMARY	Y	Y	8	0	e e	0	0	0	0
3	10944	0	PRIMARY	¥	Y	8	0	0	0	0	0	0
4.	10945	0	PRIHARY	Ħ	N	T	Ö	0	0	0	0	0
5	10946	0,	PRIHARY	Y	Y	1	2	2	0	0	0	0
6	10947	0	PRIMARY	W	N	1	2	2	0	0	0	0
7	10948	0	PRIMARY	Y	Y	Q	20	20	0	0	0	0
						i	l	1				

0 = Primary Analysis (Entire Sample)
1-4 = Subenelyses

T = Trace

	BUTCOTA	5	BUILDING NAME: DLNR - Waianapanapa Rental Cabin #5	Cabin #5	anepa		BUILDING 1.D.: 51003008	1.0.: 5	1003008		PROJECT	PROJECT MANSER : 642-19001	19001
ROOM 1.D.	I.D.		CEILING	8		<b>.</b>	MALLE		FLOOR	Ş	MCH.	HISC.	SAMPLE#/COMMENTS
Original	On Site		Subatr.	Surface Right	Right	Rear	- f	Front	Material	Base			
001		s							F-16			j-6	FROM 2
		3		*	×	*	×	×					
2002		*							F-18				FROM 1
		831		*	**	*	*	*					
903		8							F-18			-,13000	
		SK		×	*	**	*	×					
2004		\$							F-7				
		XS.		*	*	**	H	*					
2005		*							F-18				
		# C		×	*	*	*	*					
906		**			,		_	-					
		88		¥	**	×	*	*	×				FROM 1
#-1		8							F-18				
		35		×	*		*	*					FROM EXT.



## Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-52

Job No. F55B642B

ASSESTOS ASSESSMENT SURVEY
SON Phase 111

Project Number: 64219001 Building Number: 51003009

Building Name: DLHR - Waiersepenapa Rental Cabin #6

Address : THK 1-3-05:09

Haul, HI

Page: 150
Building Type: Residence
Year Constructed: URION
Date Inspected: 12/13/91
Inspector: Jackman/Ogrodny

LOCATION GRO	UP	HUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	YTITKAUD	CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Nate AMERA Dama		der 5	Response Action: 7	Potent	isl for	Disturbance: 2	Reasor	for	Damage: A			
Rooms 2, 3, 5, H1 - tan 12"x12"	1	1	vinyl floor tile		7%	300 sq.ft.	OKI	11	IA	\$1,200	\$849	\$2,049
HS# Sample # XASS									,			
1 10949 7 %			,								1	
Rooms 2, 3, 5, H1 - tan 12 <sup>m</sup> x12 <sup>m</sup>	2	1	mestic		OX,	0 sq.ft.	OHZ	0		\$0	\$0	\$0
MS# Sample # XASB												
2 10950 0 X												
Room 1 - brown 12*x12*	3	1	vinyl floor tile		οx	0 sq.ft.	OHI	0		\$0	\$0	\$0
MS# Sample # XASB												
3 10951 0 X												
Room 1 - brown 12*x12*	4	1	meatic		ox	0 sq.ft.	OKZ	0		\$0	\$0	\$0

\$379	\$289	\$90	¥	•	042	1 each	iox	aink undercoating	* ink	7		Room 1 - gray
			Reason for Damages A	for De	Reason	iturbances 2	Potential for Disturbences 2	Response Action: 7	ercoating er 5	Misc Sink Undercoating AMERA Damage Code: 5	2 Alise	** Area
\$2,391	\$991	\$1,400	STV.	1 TOTALS	area #	-						
						*						6 10954
											Sample # XASB	HS# Sampi
*	\$	8		Φ	92	0 sq.ft.	я	กั	1 mastic	۰	12×x12×	Room 4 - beige 124x124
											N.	5 10953
											Sample # XASB	HS# Sompt
\$342	\$142	\$200	¥	=	2	50 sq.ft.	×	vinyl floor tite	† vinyl	us	12#x12#	Room 4 - beige 12#x12#
											0 **	4 10952
											Sample # XASB	HS# Sampl
COSTS	REPLACEMENT COSTS	REMOVAL RI	PRIORITY I	POT PY	00 SE	YTITIMUS	PIPE X	MATERIAL DESCRIPTION	Schris Ob. NY.	MENERALINA CROOMD CROMD CROOMD CROOMD CROOMD CROOMD CROOMD CROOMD CROOMD CROOMD CROOMD		LOCATION
¥	Page: 151 ding Type: Residence rastructed: UHKN Inspected: 12/13/91 Inspector: Jackwar/Ogrodny	Page: 15: Building Type: Residence Year Constructed: UNKN Date Inspected: 12/13/91 Inspector: Jackmen/O	Year on				SOH Phase [1]		ental Cabin	itanapenape Ru 15109	t Number: 64219001 19 Number: 51003009 16 Number: DLNR - Walarus Address: THK 1-3-05:09 Mauf, NI	Project Humber: 66219001 Building Number: 51003009 Building Number: 51003009 Building Number: 51003009 Address: THX 1-3-05:09 Maul, HI
						in were		e e e e e e e e e e e e e e e e e e e				Į.

doer: 64219001 doer: 51003009 lewer DLRR - Metanapanape Rental Cabin #6 ses : TMC 1-3-05:09 Heul, HI	60) adeuedes	Rental C	abin #6	80	SOH Phase 111	bas der des			¥ a	Page: Building Type: Reside Year Constructed: UNEX Date Inspected: 12/13, Inspector: Jacks	Page: 152 Building Type: Residence mear Constructed: UNXI Date Inspected: 12/13/91 Inspector: Jackwan/Ogrodny	ŧ.
•	SAMPLE CROUP	SAMPS	NATERIAL DESCRIPTION	D PIPE	% ×	ALLLAWD	OLM EXP PRIORII	PO 10	TEAET	EXP PRIORITY REMOVAL	REPLACEMENT COSTS	COSIS
Sample # XAS9												
10955 10X												
							AREA #	2 101ALS	Y.	\$90	\$289	\$379
			•			9	SILLAN DECEMBER & VALUE IN SI	8		ŝ	084 13	*3 770

## PSI/HALL-KIMBRELL, INC. ASBESTOS PETROGRAPHIC AMALYSIS

CLIENT: DAG - Asbestos Litigation unit PROJECT #1 64219001 SOW Phase III

PAGE: 106 BUILDING #: 51003009 BUILDING: DLNR - Weienepenape Rental Cabin #6

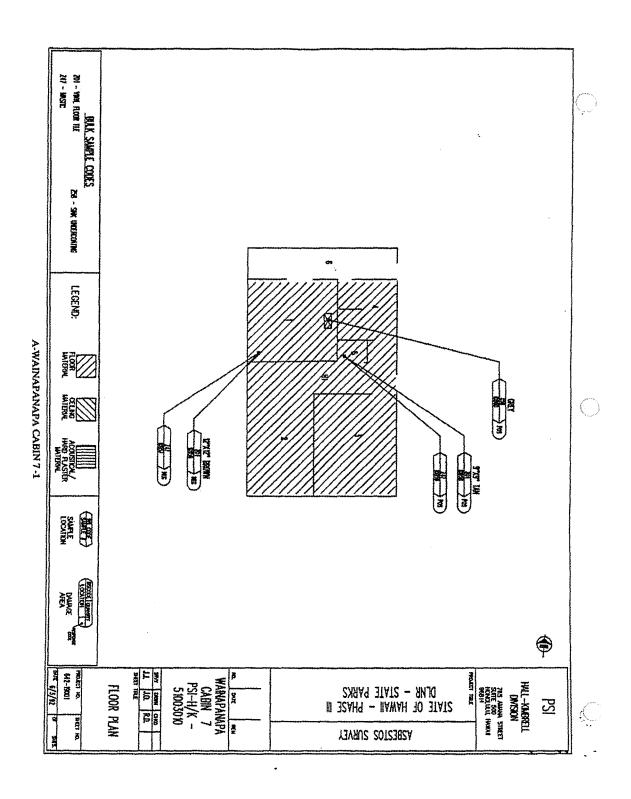
				-				***************************************	AS	RFS	705	
GROUP#	Sample Number	AHALY	TYPE	CONS	HOMO	COLOR	TOT ASB	CHRY	AHO	CRO	ANT	ACT /TRE
1	10949	0	PRIMARY	Y	Y	Ţ	7	7	0	0	0	0
2	10950	0	PRIMARY	¥	Y	B	o	0	Đ	0	0	0
3	10951	0	PRIMARY	Y	Y	8	0	0	0	0	0	0
4	10952	0	PRIHARY	Ħ	N	T	0	0	0	0	0	0
5	10953	0	PRIMARY	Y	Y	. W	2	2	0	0	0	0
6	10954	0	PRIMARY	¥	Y	B	0	0	0	0	0	0
7	10955	0	PRIMARY	Y	Y	G	10	10	0	0	0.	0
							)	1				

0 = Primary Analysis (Entire Sample) 1-4 = Subanalyses

T = Trace

	BULLDI	5	BUILDING MANE: DLWR - Valanapenapa Rental Cabin #6	Cabin #6	eclerae		BUILDING 1.D.: 51003009	I.D.: 5	1003009		PROJECT	PROJECT NUMBER : 642-19001	19001
ROOM I.D.	I.D.		CEILING	5		SITVE	8.		FLOOR	S.	MCY.	MISC.	SAMPLE#/COMMENTS
Original	On Site		Substr.	Surface Right		Repr	Left	front	Mater fet	<b>3</b>			
201		u							F-16			9-£	FROM 2
		#3		**	×	×	×	*					
002		(9							F-18				FROM 1
		X.		*	*	×	Z	×					
E003		\$							F-18				
		3		*	ж	×	*	*					
400		**							F-7				
		<b>X</b>		*	*	×	*	72					
905		500							F-18				
		¥5		*	=	*	*	×					
006		₩			-								
		Æ.		*	**	Z	**	**	*				FROM 1
#-1		8							F-18				FROM EXT.
		**3		**	*		*	*					

BUILDING 1.D.: 51003009



				C				•	<u> </u>	
Project Number: 64219001				ASSESTOS ASSESSMENT SURVEY					Page: 163	
Building Number: 51003010 Building Number: DLRR - Weisnapermape Mental Cabin #7 Address : 1-3-05:09 Haui, Hi	aperape	Rent al	Cabin #7				<del>*</del>	Building Types Resid Year Constructed: UNIXI Date Inspected: 12/13 Inspector: Jecha	Building Type: Residence eer Cometructed: UNIXI Date Inspected: 12/13/91 Inspector: Jackman/Ogrodny	₹
LOCATION	MACON CHOCKS TANKS LE	SAMS Of MICE	MATERIAL DESCRIPTION	PIPE X 10 ASB QUANTITY	3000 880 880	3 8	PRIORITY	REHOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Arem 1 Floor Haterial AMERA Demogra	floor Material AMERA Damage Code: 5	ode :	Response Actions 7	Potential for Disturbance: 2		for	Reason for Damiege: Á			
Rooms f, 2 - brown 12"x12"	-	***	vinyl floor tile	OX 0 sq.ft.	9	0		5	*	
NS# Sumple # MASS										
1 - 10956 0%			•	-						
Rooms 1, 2 - brown 12*x12*	N	-	mestic	OX 0 sq.ft.	92	٠		*	8	
Note that the Market	•									
2 - 10957 9X	·									
Roome 3, 4, 5, 81 - ten 94x94	u	**	vinyl floor file	15% 210 aq.ft.	9	==	7	\$840	\$594	
MS# Sample # 1/158										
3 - 10958 15X										
Rocums 3, 4, 5, 81 — tem ЭмхЭм		-	報用のパーで	15% 210 kg.ft.	. 042	=	. 7	\$840	\$594	

uilding Hamber: 51003010 Building Hamma: DLMR - Waimnapanapa Rental Cabin #7 Address : 1-3-05109 Maul, HI	în <b>87</b>		÷	Building Types Resid Year Constructeds UNKN Date Inspected: 12/13	Building Types Residence ar Constructed: UHCN late Inspected: 12/15/91 Inspector: Jackmen/Dgrodny	₹
LOCATION SAMPLE MASS HANGER SAMPS	MIERIAL DESCRIPTION	PIPE X	OZM EXP PRIORIT	PRIORITY REMOVAL	REPLACEMENT	TOTAL
HS# Sumple # XASS						•
4 - 10959 13X						
			AREA # 1 TOTALS	\$1,680	\$1,188	\$2,868
** Area 2 Misc Sink Undercoating AMERA bassage Code: 5	Response Action: 7	Potential for Disturbuncas 2	2 Reason for Damages A	>		
Room 1 - grey 5 1 si	sink undercosting	20% i sach	AI 6 2300	190	\$289	\$379
HS# #eeple # XASB						
5 - 10960 20%	ě					
			AREA # 2 TOTALS	\$90	\$289	8379
			STATOL OLOGOOLS # DAIGTING	\$1,770	\$1,477	\$3,247

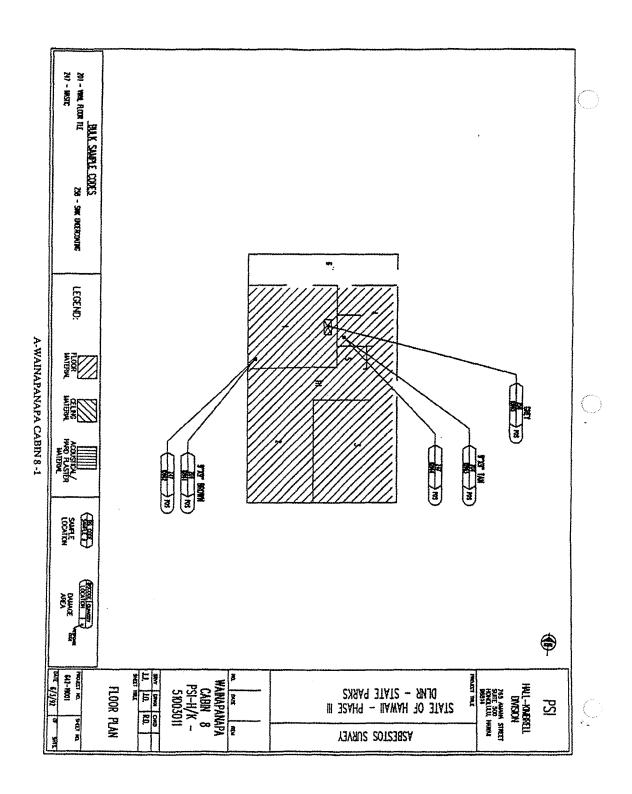
#4TOWN 0 = Primory Analysis (Entire Sample) 1-4 = Subermlyses SANDLE BANDLE 10957 10956 10959 ANALY PRIMARY PRIMARY PRINARY PRIMARY 341 COMES 00,03 ង ជ ជ ASS TOT 3 엻 ACT TRE

XALY916

CLIENT: DAG - Asbestos Litigation unit PROJECT #: 64219001 SUS Phase III

PAGE: 107 BUILDING #: 51003010 BUILDING: DLNR - Valaraparapa Rental Cabin #7

(	*	- E	BUILDING MANE: DLNR - Valenapenape Rental Cebin #7	- Uniferrep Cabin #7	acteria	_	BUILDING 1.D.1 51003010	1.0.1 5	51003010		PROJECT I	PROJECT MUMBER : 642-19001	19001
ROOM 1.D.	.0.		DELLIN	ž		BITIM	8		FLOOR	另	MECH.	MISC.	SAMPLE#/COMMENTS
Original	On Site		Substr.	Surface Right	#ight	70sr	Left	front	Material Hase	# 250			
001		<b>C</b>							6-16			9-6	FROM 2
		3		æ	28	*	**	*					
200		t <b>a</b>							F-16				FROM 1
		**		×	3	**	*	**			·		
603		•							E-18				
		72		*	38	38	*	*					
\$0		59							E-18				
		ä		×	*	*	32	2					
905		•							E-10				
		**		×	*	2	*	*					
906		*											
		88		*	*	*	×	×	*				FROM 1
#-1		12	-						E-18				FROM EXT.
		#		*	3		*	*					



Room 4 + tem 9"x9"	<b>4</b> ,-2	_	Room 4 - ten 94/98	N		Rooms 1, 2, 3, 5, 81 - brown 9*x9**		_	Rooms 1, 2, 3, 5, R1 - brown 9mx9m		66	Project Number: 64219001 Building Number: 51003011 Building Name: DLNR - N Address : TMK 1-3- Maci, RI
7	w	HS.	2		HS#	, and No		75	1, 2,	** Area	LOCATION	A 2 2
3	10963	Sample #	3	10962	Sample #	<u>.</u>	10961	Sample #	Çiş Çiş	<b>.</b>		a Man
ð		- Tag	3		*	 =		**	3			t Numbers 64219001 ng Humbers 51003011 Sing Hames DLNR - Nafassa Sing Hames DLNR - Nafassa Address STRK 1-3-05109 Address Masi, RI
	\$	<b>83.</b> XX		ġ	XIS8	¥.	×	<b>85.</b> 72	g.	FLOO	,	7-3-0 1-3-0
						ŝ			5	Floor Material AMERA Damage C	225	8 1
*			w			N			-	eriat eriat	STANTA	and o
			***			***				Floor Material AHERA Damage Code: 5	2 Q III	roject Number: 64219001 Hiding Humber: 51003011 Building Hame: DLNR - Waisraparapa Rentel Cabin #8 Address: TNK 1-3-05:09
ı			<u> </u>			I			<b>\$</b>	_	_	C.
mestic			vinyl floor tile			mestic			vinyl floor tile	~	MATERIAL DESCRIPTION	
			8				`		og.	Response Action: 7	IVT BI	
			=						Ē	Acti	E#CX	
										3	7110	
										7		_
										3	p pp	SOM Phase !!!
										Keen tii		\$0H 3
×			2			Š			Ħ	it for	ASS *	SOH Phage 111
										9	Q	111 30
30 sq.ft.			50 ag.ft.			420 sq.ft.			420 sq.ft.	Potential for Disturbance: 2	41111WID	
#. #			7.			7.7			7.	<u> </u>	7	
962			2			92			2	<b>*</b>	CODE	
									<b>*</b>	Research for Dameges A	201 E00	
*			*			#				7		
₹.		•	₹.			₹			7	ng es	PRIORITY LEVEL	*
									_		1	Page: 11 Building Type: Residence Year Constructed: UNICH Date Inspected: 12/13/91 Inspectors Jacksmay
\$200			<b>\$</b> 200			\$1,680			\$1,680		COSTS	ding ;
•			_			_					8	Page: 155 Building Type: Residence or Constructed: URCM bate Inspected: 12/13/91 inspector: Jectman/Or
						*			*		REPLACEMENT COSTS	Maraid 12/13
\$142			\$142			\$1,189			\$1,189			155 dnc a
												Paget 155 ding Typer Residence restructed: URCH Imapected: 12/13/91 Imapector: Jackman/Ogrodny
						*			22		101A	
1342			2342			\$2,869			\$2,869		3 6	

ASSESTOS ASSESSMENT SURVEY

				J. Cotto Beek	NASCATOS NASCASTERI SURVEI	134mme					•		
04219001				50	SOR Phase III	•					Pager	Det 190	
11050015	•		•							:	Harang 17	sultaing types Residence	
: DLRR - Weismapanapa Rental Cabin #8	administration	Rental Cab	in #8							Yes	Year Constructed: UNKN	BC: CHICK	
: [PR 1-3-05:09	5109									-	ate Inspect	Date Inspected: 16/13/71	
Mauf, MI											Impect	Impector: Jeckmen/Ogrodny	
	MARCE SWIFTE	S. O. B.	WATERIAL DESCRIPTION	0 10 10	ž *	ALIMWD		6 <b>6</b>	3 2	PRIORITY REMOVAL	REMOVAL COSTS	REPLACEMENT COSTS	101AL
HSYX # *									i				
UR VA													
							<b>≥</b>	AREA #		1 101/12	\$3,760	\$2,662	\$6,422
2 Misc	Misc Sink Undercoet AMEDA Dammge Code: 5	Misc Sink Undercoating AMERA Damage Code: 5	g Response Action: 7	Poten	tial for D	Potential for Disturbance: 2	>>	Regs:0	n for	Reeson for Damege: A			
	u.	-	sink undersouting		202	i each		Q	40	₹	\$90	\$289	8379
i * XASE													
20%													
							2	AREA #	N T	2 10tVT8	\$90	\$289	\$379
				:		;	<b>E</b>	BUILDIRG # 51003011 TOTALS	G ====================================	OLYT.	<b>33,85</b> 0	\$2,951	\$6,801

ASBESTOS ASSESSMENT SURVEY SON Phase III

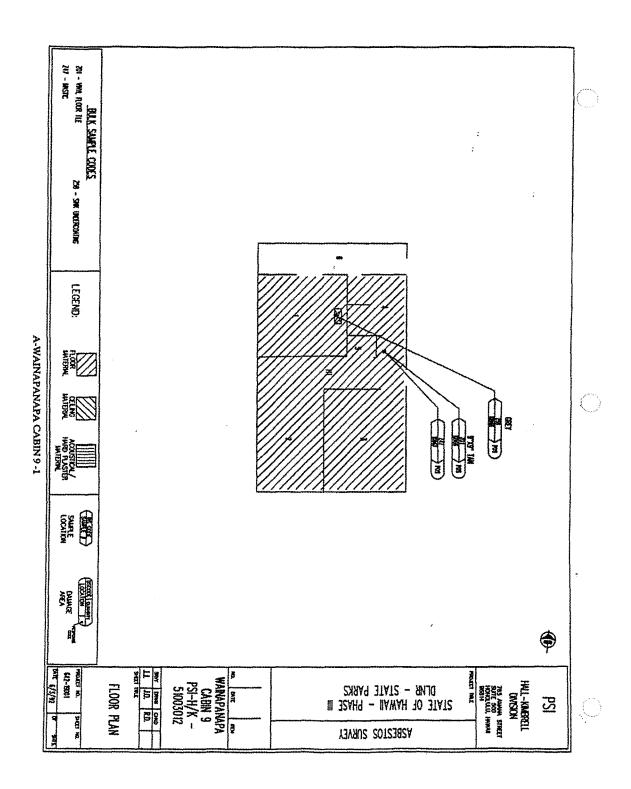
Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-64

l				I * Trace	-			•	itire seepi	yais (E	- Primary Analysis (Entire Sample)	0
۰	0	٥	•	8	8	ø	-4	~	PRIMARY	•	10965	u#
0	٥	۰	0	U)	Uf	*	~	~	PRIMARY	•	10964	•
0	•	•	٥	8	8	-	-<	~	PRIMIRY	0	10963	u
0	0	0	0	7	5	*	~		PRIMARY	<b>6</b>	10962	N
0	0	ò	0	7	7	-	*	۲,	PRIMARY	0	10961	
ACT TRE	ANT	CR	<b>₹</b>	CHRY	ASB	COLOR	NO.	COMS	TYPE	AWALY	SAMPLE MUNISER	GROUP#

PSI/HALL-KIMBRELL, INC. ASBESTOS PETROGRAPHIC ANALYSIS

Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-65

	· · · · · ·	<b>8</b>	BUILDING MANC: DLNR - Weimnupenspa Rental Cabin #8	Walmusp Cabin #8	впера		BUILDING I.D.1	5	51003011		PROJECT	PROJECT HUMBER : 642-19001	19001
ROOM 1.5.	i.b.		CHILING	基		Ē	STIVE		FLOOR	ğ	MECH.	NISC.	SAMPLE#/CUMMENTS
Original	On Site		Substr.	Surface Right	R (ght	Rear	Left	Front	Material	Base			
901		**							E-16			9-6	FROM 2
		2		*	*	*	**	*					
002		<b>S</b>							- 16 - 36				FROM 1
		**		×	*	*	7	×					
903		*							E-16				
-		**		*	**	**	x	X					
100		**					_		E-18				
		#5		*	32	*	*	*		,			
005		549							8-16		-		
		*		*	*	*	*	*					
006					7								
		We		*	**	*	*	*	×				FROM 1
<b>*</b> -		<b>S</b>							E-16				FROM EXT.
		#		*	3	••••	*	*					



Rog		l			*****			Rog		5	<b>.</b>
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		z						<u></u>		REPLACEMENT	#: de 2/13/
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	tus .	Z.	LOCATION	Project Number: 64219001 Building Number: 51003012 Building Nume: 01MR - 4: Address : 1MK 1-3-4 Houl, Hi
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			e s	Project Number: 64219001 Hiding Number: 51803012 Building Number DINR - Valerapumape Rental Cubin #9 Address : THK 1-3-05:09
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\$2,949	\$289		REPLACEMENT	Page: 158 Building Type: Residence Year Constructed: UNIXI Date Inspected: 12/13/91 Linepactor: Jackssen/Ogrodny
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ASSESTOS PETROGRAPHIC ANAL

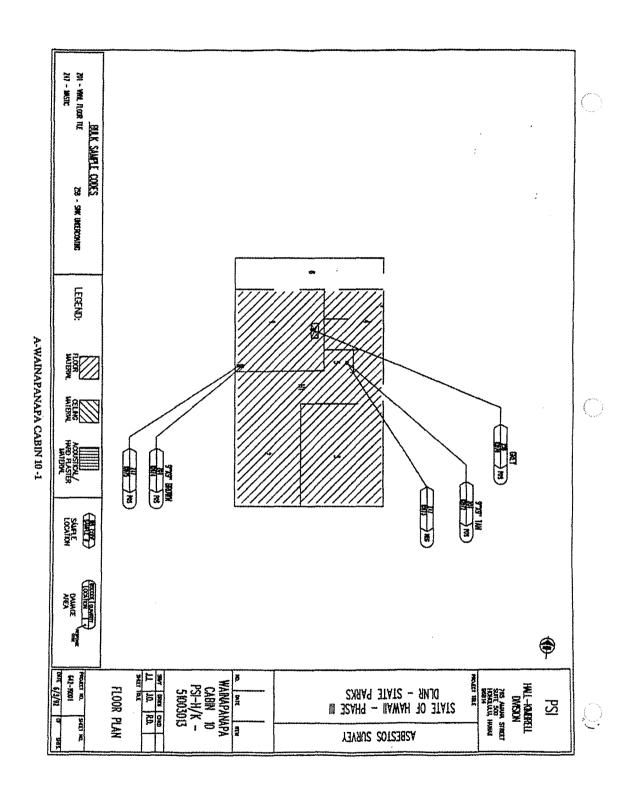
CLIENT: DAG - Asbestos Litigation unit PROJECT #1 64219001 SOM Phase III

PAGE: 109 BUILDING #: 51003012 BUILDING! DLKR - Waisnepenspa Rental Cabin #9

PAGE: 109

Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-70

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Project Humbert 64219801				ASSESTED ASSESSMENT SURVEY SON Phase III	SURVET				2	Pages 159	
Building Number: 51003013  Building Name: DLMM - Weienepenape Rental Cabin #10  Address: TMX 1-3-05;09  Maul; Bl	5109	Rental	Cabin #10					Year Dat	• 8 =	Building Types Residence per Constructeds UNIX Date Imspecteds 12/13/91 Inspectors Jackson/Ogrodny.	4
LOCATION	STANCE STORE	S deva	MATERIAL DESCRIPTION	PIPE X	YTTTMUG	3000	38	PRIORITY	COSTS	REPLACEMENT COSTS	S1S00
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ASSESTOS ÁSSESSMENT SURVEY SON Phase 111

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		ost Residence ids UNIX	Building Typer Constructs	۲.					In #10	Rental Cab	ta i smapamapa	LMR - 1	Building Number: 51003013 Building Name: DLNR - W
er: 64219001 SON Phase 311 Paget 160		jes 160	Pag			-	M Phase II	響			_	4219001	Project Number: 64219861

ASSESTED ASSESSMENT SURVEY

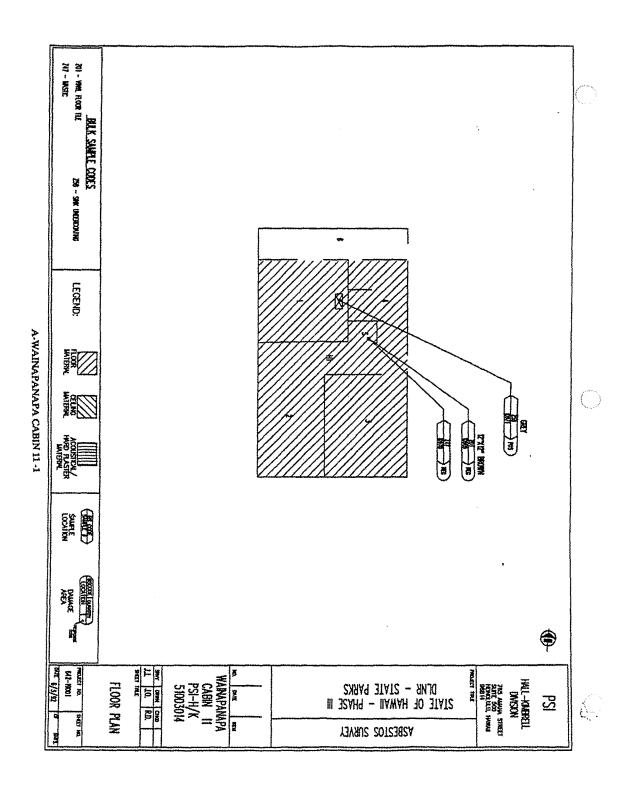
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PSI/HALL-KINSRELL, INC. ASBESTUS PETROGRAPHIC ANALYSIS

CLIEBT: DAG - Asbestos Litigation unit PROJECT #: 64219001 SON Phase 111

PACE: 110 BUILDING #1 51003013 BUILDING: DLNR - Mainrapurepa Rental Cubin #10

2000	BULCOII	8 2	BUILDING NAME: DLNR - Valenepanapa Rental Cabin #10	· Valenep Cabin #10	anapa		BUILDING 1.D.: 51003013	1.0.1	51003013		PROJECT	PROJECT MUSSER : 642-19001	19001
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											SSVX	Sample # XASS	75	
8	*	8		•	3	0 sq.ft.	2	vinyi floor tile	1 viny	***	=	Rooms 1, 2, 3, 4, 5, H1 - brown 12"x12"	Rooms 1, 2, 3, brown 12*x12*	Room
,			Reason for Damage: A	for Da	Reason	sturbence: 2	Potential for Disturbance: 2	Response Action: 7	uı	Floor Material AMERA Dumbge Code: 5	1 Floor AMENA		* Area	
TOTAL	REPLACEMENT COSTS		PRIORITY REMOVAL	3 8	S	CHANADO	D ASS	NATERIAL DESCRIPTION	-	HANNER EVAN.  BLOTTE HANGE SYMBILE HANGE	<i>*</i>	_	LOCATION	5
	Pages 161 Iding Types Residence Constructed: UNCO Anappacted: 12/11/91 Inspector: Ogrodny/Jackman	* 8' <del>-</del>	Buil Year C			SURVEY	ASBESTOS ASSESSMENT SURVEY SCH Phase III	<b>1</b>	tat Cabin	roject Number: 64219001 Hiding Number: 51003014 Building Hemma: DLHR - Walarmaparapa Rental Cabin 11 Address : THK 1-3-05:09 Mauf, 81	64219001 51003014 DLWR - Walt THK 1-3-051 Maul , HI	Project Number: 64219001 Building Number: 51003014 Building Number: 51003014 Building Number: 01M7 - Weisman Address : TMX 1-3-05109 Maui, HI	Jilding 2	Built.
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Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-78

		w	HS# snepte # MASE	LOCATION	roject Mumber: 64219001 pilding Number: 51003014 Building Number: 51003014 Building Number: DLNR - Weleneponapa Rental Cabin 11 Address : TMK 1-3-05:09	
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;				MATERIAL DESCRIPTION	abin 11	
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				ž×	SOM Phase 311	0
•				44148770	ASSESTICS ASSESSMENT SURVEY SOM Phase 311	
BUILDING # 51003014 TOTALS	AREA #			OEDI CODE		
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OLYTE _	2 TOTALS			LEVEL PRIORITY	₹	
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\$289	\$289			REPLACEMENT	Page: 162 Building Type: Residence ear Constructed: UNIO: Date Inspected: 12/11/91 Inspector: Ogrodny/Jackman	(
8379	\$379			\$1500 TV101	<b>5</b>	

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1-4 \* Subenalyses

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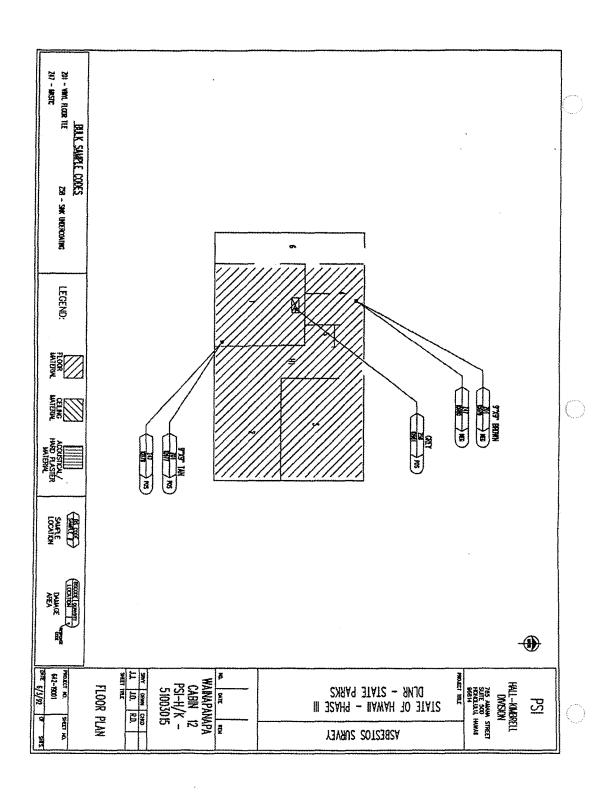
CLIERT: DAG - Asbestos Litigation unit PROJECT #: 64219001 SON Phase III

PAGE: 111 BUILDING #: 51003014 BUILDING: DLNR - Walensperspe Rental Cabin 19

juu.	anitoli	≅ ≅	BUILDING NAME: DLWR - Volanaparapa Rental Cabin 11	. Vefanapi Cabin 11	adeta	_	\$100001 D.I. 51000014	[b. 5	\$1003014		PROJECT	PROJECT NUMBER : 642-19001	19001
ROOM 1.D.	I.B.		CEILING	3		BITM	.1.8		FLOOR	<b>S</b>	ALCH.	MISC.	SAMPLE#/COMMENTS
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Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-81

Job No. F55B642B



3 10979 0 X	Rooms 1, 2, 3, 4, 5, H1 - 3 brown 9mx9m PS# Sample # 7ASB	Rocess 1, 2, 3, 4, 5, H1 - 2 tent 9"x9" MS# Semple # XASB 2 10978 15X	MS# Sample # XASB	Rooms 1, 2, 3, 4, 5, 11 - 1 tan 9×0×	to Area : Floor Material AMERA Damage Code: 3	LOCATION SOMPLE SAMPLE	Project Number: 64219001 Building Number: 51003015 Building Name: DLNR - Veienspenape Rental Cabin 12 Address: THK 1-3-05:09 Maul, Hi	0
••	w <b>A</b>	**			Codes	SAMS OF BATH	Rent	
#6setic		ance tic		viryl floor tile	S Response Action: 7	) HATERIAL DESCRIPTION	il Cabin 12	
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250		. 0		9	Reaso	CODE		
<b>a</b>	•	#		<b>=</b>	n for	2 E2		
·		₹		₹	Remmon for Dammger A	PRIORITY LEVEL	74 95	
<b>8</b>	<b>5</b>	\$1,792		\$1,792		REHOVAL COSTS	<b>7</b> 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
\$	\$	\$1,268		\$1,268		REPLACEMENT COSTS	Page: 163 Building Type: Residence r Constructed: UNIXI ste Inspected: 12/13/91 Inspector: Ogrodny/Jackman	
<b>\$</b>		£3,060		<b>83</b> ,060		COSIS	***	

86,499	\$2,825	83,674	LOIATS _	G015	BUILDING # 51003015 TOTALS	<b>2</b>									
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												<b>a</b>	Sample # XASB		HS
\$379	\$289	\$90	¥	•	290	. I each	×		sink undercoating	sink un		ya.		- grey	Room 1 - grey
		-	Reason for Damage: A	n for		Potential for Disturbances 2	itial for	Poter	Response Action: 7		Underco	Hisc Sink Undercoating AMERA Damage Code: 5	2 XI	** Area	<b>:</b>
\$6,120	\$2,536	\$3,584	1 TOTALS	-	AREA #										***************************************
													8	10980	
												M45	Sample # 7ASB		MS.W
TOTAL	REPLACEMENT	PRIORITY RENOVAL LEVEL COSTS	1	CODE POT	3003 FF80	ALLANYS	>s# ×	PIPE ID	MATERIAL DESCRIPTION		SAMAS	SAMPLE GROUP HUMBER		108	LOCATION
35	iding Type: Residence ynstructed: UMXN Inspected: 12/13/91 Inspector: Ogrodny/jsckmen	Building Type: Residence Year Constructed: UNKN Date Inspected: 12/13/91 Inspector: Ogrodny/J	¥ **		**************************************					Cabin 12	5 Rents	silding Number: 55003015 Building Number: DLMR - Valamapanapa Rental Cabin 12 Address : TMK 1-3-05:09 Hauf, HI	Suilding Number: 51003015  Building Name: DLRY - Vaiance Address : TWK 3-3-05:09  Hauf; HI	g Number Ing Name Address	Buildin
	e: 164	Page:				IT SURVEY	SON Phase III	ASBESTOS ASSESSMENT SURVEY					Project Mumber: 64219001	t Musber	Projec
	Ç						(						E Section	jone	

Asbasto 001 S	CLIENT: DAG - Asbestos Littigation unit 1/ECT #: 64219001 - 80N Phase III	5	ASB	ESTOS PI	ETROGRAI	ASBESTOS PETROGRAPHIC ANALYSIS	LYSIS				72	PAGE: 112 BUILDING #: 51003015 BUILDING: DLNR - Nefenspenspe Rental Col
									- ASRESTOS	E 5 1		
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ROOM 1.D.	1.0.		DKITIBO	**		STIVE	Ţ\$		\$1.00£	æ	NECH.	MISC.	SAMPLES/COMPENTS
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*		us.							E18/E16				FROM EXT.
		5		*	3		×	×					



March 25, 2004

Mr. Robert Tanaka Tanaka Engineers, Inc. 871 Kolu Street, Suite 201 Wailuku, HI 96793

RE: Asbestos, Lead-based Paint and Arsenic (Canec) Survey for Wainapanapa State Park, Hawaii. VEC Project No. 0402-735B

Dear Mr. Tanaka,

Please find attached the laboratory results from EMC Laboratories for the asbestos and lead-based paint sampling survey conducted by Vuich Environmental Consultants, Inc. (VEC) at the above referenced location on March 12, 2004. This project consisted of surveying and/or sampling the following separate locations:

- Cabin #3
- · Parking Areas 1 through 5

### Limited Asbestos Sampling Survey

The Environmental Protection Agency (EPA) and the State of Hawaii, Department of Health (DOH), define asbestos-containing materials (ACM) as those containing greater than 1% asbestos (Chrysotile, Amosite, Crocidolite, Anthophyllite, Tremolite, and Actinolite). A total of eleven (11) samples were collected from suspect materials identified in Cabin #3 and Areas 4 and 5. Suspect materials were not identified at the other project locations. According to the laboratory analysis, the following building materials are by definition asbestos-containing:

- <u>Cabin #3</u> Kitchen floor, underlying mastic and underlying (second layer) 12" Light Brown Floor tile;
  - > Floor tile, 10% Chrysotile
  - > Yellow mastic, 2% Chrysotile
  - ➤ Black mastic, 3% Chrysotile
- <u>Cabin #3</u> Kitchen sink, white undercoat (15% Chrysotile);
- Cabin #3 Bedroom/Hallway, 12" gray floor tile (8% Chrysotile).

Asbestos-containing materials are in fair to good condition over the surface area. Some floor tiles were damaged. Removal of all asbestos-containing materials, including small, untested areas, is recommended prior to any demolition/renovation work that may impact the above-noted materials.

OSHA's and HIOSH's Construction Standard for Asbestos regulates safety, work procedures, training, and medical surveillance of workers.

Page 1 of 3

Maui (Main) Office: 1498 Lower Main Street, Suite C, Wailuku, Maul, Hawaii 96793 ● (808) 249-2777 Phone (808) 249-2778 Fax Oahu Office: Hanua Industrial Complex. 91-110 Hanua Street. Unit 317. Kapolei. Oahu. Hawaii 96707 Demolition and renovation work activities involving ACM must follow the requirements and guidelines under EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) and Hawaii Administrative Rules (HAR) Chapter 11-501. Notification, emission control, and waste disposal protocols should be conducted in accordance with NESHAP regulations.

### Limited Lead-Based Paint Sampling Survey

The EPA and U.S. Department of Housing and Urban Development's (HUD's) definition of lead-based paint is 0.5% lead by weight. The Consumer Products Safety Commission's (CPSC's) criteria for lead-free paint is 0.06% lead by weight. The laboratory detection limit for lead during the paint analysis was 0.010% lead by weight. The Occupational Safety and Health Administration (OSHA) Lead Construction Standard rules are effective for any levels above the laboratory detection limit.

VEC personnel collected a total of eleven (11) paint chip samples from the exterior and interior building components of Cabin #3 and from the below listed areas. (See table below).

The following is a description of the sampled paint schemes with *lead levels above the laboratory detection limit*: Paint schemes that were determined by laboratory analysis to be below the reportable limit of the laboratory (0.010 % Pb by weight) are indicated with the letters BRL.

735 (B) - 01L	Cabin #3, Exterior Front Steps	Green Paint	0.042
735 (B) - 02L	Cabin #3, Exterior Front Entry Rail	Green Paint	0.036
735 (B) - 03L	Cabin #3, Rear Porch Door Interior	Red Brown Paint	0.010
735 (B) - 04L	Cabin #3, Rear Porch Door Jamb	Beige Tan Paint	0.082
735 (B) - 05L	Cabin #3, Kitchen Cabinet	Red Brown Paint	0.085
735 (B) - 06L	Cabin #3, Interior Wall (main color)	Tan Paint	0.099
735 (B) - 07L	Parking Area #2, Parking Stripe	White Paint	BRL
735 (B) - 08L	Picnic Area #3, Concrete Table Top	Green Paint	BRL
735 (B) - 09L	Picnic Area #3, Wood Seat (Table)	Green Paint	BRL.
735 (B) - 10L	Area #4, Restroom Interior, Concrete Bench	White Paint	BRL
735 (B) - 11L	Area #4, Restroom Interior, Concrete Partition	White Pant	BRL

Both the front and rear doors and door jams appeared to have the same paint schemes and should be considered to have similar lead levels.

VEC recommends following the risk assessment and work control guidelines presented in EPA's Requirements for Lead-Based Paint Activities in Target Housing and Child-Occupied Facilities and HUD's "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, 1995, for any demolition or renovation work activity that disturbs paint with measurable levels of lead.

In addition, compliance with OSHA and HIOSH standards is compulsory for worker training and work practices. Under the OSHA Lead Construction Standard, any scheduled renovation or demolition work conducted on these building components will require certain notification to workers and work procedures to be followed.

Page 2 of 3

Maui (Main) Office: 1498 Lower Main Street, Suite C, Wailuku, Maui, Hawaii 96793 ● (808) 249-2777 Phone (808) 249-2778 Fax Oahu Office: Hanue Industrial Complex. 91-110 Hanue Street. Unit 317. Kapolei. Oahu. Hawaii 96707

### Limited Canec-Arsenic Sampling Survey

No Canec materials were noted during the site inspection.

If you should have any questions or would like further assistance, please contact our office at (808) 249-2777.

Sincerely yours,

Jeffrey Kermode Inspector

CC

File

Enclosure

EMC Laboratories - Results and Chain-of-Custody

Page 3 of 3

Maui (Main) Office: 1498 Lower Main Street, Suite C, Walluku, Maui, Hawaii 96793 ● (808) 249-2777 Phone (808) 249-2778 Fax Oahu Office: Hanua Industrial Complex. 91-110 Hanua Street. Unit 317 Kapolei. Oahu, Hawaii 96707

# EMC LABS, INC.

Laboratory Report 0020153

735

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

### Bulk Asbestos Analysis by Polarized Light Microscopy

### NVLAP#101926-0

Client: Address:

Address:

VUICH ENVIRONMENȚAL

1498 LOWER MAIN ST, STE C

WAILUKU, HI 96793

Collected: Project Name/

03/16/2004

WAINAPANAP

Job# / P.O. #:

Date Received:

03/17/2004

0402-735

Date Analyzed: 03/19/2004 Date Reported: 03/19/2004

EPA Method: Submitted By: EPA 600/M4-82-020 JEFFREY KERMODE

iuu. Coo.			Collecte	•	Custom	er	
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Defected	Asbestos (%)		Non-Asbestos Constituents	
0020153-001 735-B-01A	CABIN #3 KITCHEN FLOOR	LAYER 1 12" Floor Tile, Lt. Red	No				
						Quartz Carbonates Binder/Filler	100%
		LAYER 2 Mastic, Yellow Note: Very small amount of sample-may effect analysis	Yes	Chrysotile	2%	Carbonates Binder/Filler	98%
		LAYER 3 12" Floor Tile, Lt. Brown	Yes	Chrysotile	10%	Carbonates Binder/Filler	90%
		LAYER 4 Mastic, Black	Yes	Chrysotile	3%	Carbonates Binder/Filler	97%
0020153-002 735-B-02A	CABIN#3 KITCHEN FLOOR	LAYER 1 12" Floor Tile, Lt. Red	No				
						Quartz Carbonates Binder/Filler	100%
		LAYER 2 Mastic, Yellow	No			Cellulose Fiber Carbonates Binder/Filler	1% 99%
		LAYER 3 12" Floor Tile, Lt. Brown	Yes	Chrysotile	10%	Carbonates Binder/Filler	90%
		LAYER 4 Mastic, Black	Yes	Chrysotile	5%	Cellulose Fiber Carbonates Binder/Filler	1% 94%

Page 1 of 3

# EMC LABS, INC.

Laboratory Report 0020153

Page 2 of 3

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

### Bulk Asbestos Analysis by Polarized Light Microscopy

### NVLAP#101926-0

Client: Address:	VUICH ENVIRON 1498 LOWER MA	•	Job#/P Date Re		0402-735		
	WAILUKU, HI 9	•	Date An		03/19/20		
Collected:	03/16/2004		Date Re	-	03/19/20		
Project Name/	WAINAPANAP		EPA Me	•		VM4-82-020	
Address:			Submitt			Y KERMODE	
			Collecte	•	Custom		
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos 7		Non-Asbestos Constituents	
0020153-003 735-B-03A	CABIN #3 BATHRM FLOOR	LAYER I 12" Floor Tile, Lt. Red	No				
						Quartz Carbonates Binder/Filler	100%
		LAYER 2 Massic, Brown	No			Cellulose Fiber Mineral Wool Synthetic Fiber Quartz Carbonates Binder/Filler	2% 1% <1%
				·····		BIRGENTING	9074
0020153-004 735-B-04A	CABIN #3 KITCHEN FLOOR	Sink Undercoat, White/Lt. Blue	Yes	Chrysotile	15%		
						Carbonates Binder/Filler	85%
0020153-005 735-8-05A	CABIN #3 KITCHEN FLOOR	Sink Caulk, Off White	No				
						Quartz Carbonates Binder/Filler	100%
0020153-006 735-B-06A	CABIN #3 BEDROOM	LAYER 1 12" Floor Tile, Gray/ Beige	Yes	Chrysotile	8%		
						Carbonates Binder/Filler	92%
		LAYER 2	No			Cellulose Fiber	1%
		Mastic, Yellow Note: Very small amount of sample-may effect analysis				Carbonates Binder/Filler	99%
0020153-007 735-B-07A	CABIN #3 BEDROOM	12" Floor Tile, Gray/ Beige Note: No Mastic Present	Yes	Chrysutile	5%		
						Quartz Carbonates Binder/Filler	95%

# EMC LABS, INC.

Laboratory Report 0020153

9830 S. 51st Street, Suite B109, Phoenix, AZ 85044 Phone: 800-362-3373 or 480-940-5294 - Fax: (480) 893-1726

### Bulk Asbestos Analysis by Polarized Light Microscopy

### NVLAP#101926-0

Client: Address: Collected: Project Name/ Address:	VUICH ENVIRONMENTAL 1498 LOWER MAIN ST, STE C WAILUKU, HI 96793 03/16/2004 WAINAPANAP		Job# / P Date Re Date Ar Date Re EPA Me Submitt	ceived: nalyzed: ported: ethod:		004 004	
Auuress.			Collecte	•	Custon		
Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos T	`ype	Non-Asbestos Constituents	
0020153-008 735-B-08A	CABIN#3 HALLWAY	LAYER 1 12" Floor Tile, Gray/ Beige	Yes	Chrysotile	5%.	Quartz	
						Carbonates Binder/Filler	95%
		LAYER 2 Mastic, Brown	No			Cellulose Fiber Carbonates Binder/Filler	1% 99%
0020153-009 735-B-09A	CABIN#3 BATHRM	Shower Caulk, White	No				
						Carbonates Binder/Filler	100%
0020153-010 735-B-10A	AREA #4 WASHRM	Grout, Gray	No				
						Quartz Carbonates Binder/Filler	160%
0020153-011 735-B-11A	AREA#5 BBQ PIT	Grout, Gray	No			Cellulose Fiber Quartz Carbonates Binder/Filler	<1% 99%
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Page 3 of 3

Signatory - Lab Director - Kurt Kettler

Analyst - Kenneth Scheske

	9'2004		
Page	1	ŗ	

### **CHAIN OF CUSTODY**

EMC Labs, Inc. 9830 S. 51<sup>87</sup> St., Ste B-109 Phoenix, AZ 85044 800) 362-3373 Fax (480) 893-1726

#0385_P.001/001
LAB#: 729/6
TAT: 2day
Rec'd: PR 17 PM

		(800)	362-3373	Fax (480) 8	93-1726	Rec'	d:	PAR 17	P.M.	
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٠,	WAILUKU, HI 96	793		j.	<u>~~/~</u>		_1_			
CONTACT:	JOHN VUICH				712	<u></u>		····		***************************************
Phone:Fax:	(808) 249-2777 /	(808) 249-2778	3	······				···		
Email:										
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9830 South 51" Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726 amcdate@emclabs.com

# LEAD (Pb) IN PAINT CHIP SAMPLES EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB	3#: L25908 DATE RECEI		DATE RECEIVE	ED:	03/17/04	
CLIENT:		Vuich Environmental Consultants, Inc. REPORT DA		REPORT DATE	:	03/19/04
			DATE OF ANA		YSIS:	03/18/04
CLIENT A	DDRESS:	1498 Lower M Wailuku, HI 9		P.O. NO.:	73	35
PROJECT	NAME:	Wainapanapa		PROJECT NO.:	0402	-735
EMC# L25908-	SAMPLE DATE/04	CLIENT SAMPLE #	DESCRIPTION		REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
1	03/12	735 (B)-01L	Cabin #3 Front Steps-Green Paint		0.010	0.042
2	03/12	735 (B)-02L	Cabin #3 Entry Rail-Green Paint		0.010	0.036
3	03/12	735 (B)-03L	Cabin #3 Rear Porch Door Interior-Red Brown Paint		0.010	0.010
4 .	03/12	735 (B)-04L	Cabin #3 Rear Porch Door Jamb-Beige Tan Paint		010.0	0.082
5	03/12	735 (B)-05L	Cabin #3 Kitchen Cabinet-Red Brown Pa	0.010	0.085	

<sup>=</sup> Dilution Factor Changed

BRL = Below Reportable Limits

This report applies to the standards or procedures identified and to the samples tested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits. Blank correction is performed if the result for the blank is higher than the reporting limit.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actually, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advertising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST: Jason Thompson

QA COORDINATOR:

Page 1 of 2

<sup>\* =</sup> Excessive Substrate May Bias Sample Results



9830 South 51<sup>st</sup> Street, Suite 8-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726 emolab@emolabs.com

# LEAD (Pb) IN PAINT CHIP SAMPLES EMC SOP METHOD #L01/1 EPA SW-846 METHOD 7420

EMC LAB	#:	L25908 DATE RECEI			D:	03/17/04
CLIENT:		Vuich Environ	mental Consultants, Inc.	REPORT DATE:		03/19/04
				DATE OF ANAL	YSIS:	03/18/04
CLIENT A	DDRESS:	1498 Lower M Wailuku, HI 9		P.O. NO.:	7.	35
PROJECT	NAME:	Wainapanapa		PROJECT NO.:	0402	2-735
EMC# L25908-	SAMPLE DATE /04	CLIENT SAMPLE #	DESCRIPTION		REPORTING LIMIT (%Pb by weight)	%Pb BY WEIGHT
6	03/12	735 (B)-06L	Cabin #3 Interior Wall-Tan Paint		0.010	0.099
7	03/12	735 (B)-07L	Parking Area #2 Stripe-White Paint		0.010	BRL.
8	03/12	735 (B)-08L	Picnic Area #3 Concrete Wall-Green Pai	nt	0.010	BRL
9	03/12	735 (B)-09L	Picnic Area #3 Wood Seat-Green Paint		0.010	BRL
10	03/12	735 (B)-10L	Area #4 Restroom Concrete Bench-White Paint		0.010	BRL
11	03/12	735 (B)-11L	Area At #4 Restroom Interior Partition-V	Vhite Paint	0.010	BRL

<sup>\* =</sup> Dilution Factor Changed

RL = Below Reportable Limits

This report applies to the standards or procedures identified and to the samples lested only. The test results are not necessarily indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products, nor do they represent an ongoing quality assurance program unless so noted. Unless otherwise noted, all quality control analyses for the samples noted above were within acceptable limits. Blank correction is performed if the result for the blank is higher than the reporting limit.

Where it is noted that a sample with excessive substrate was submitted for laboratory analysis, such analysis may be biased. The lead content of such sample may, in actuality, be greater than reported. EMC makes no warranty, express or implied, as to the accuracy of the analysis of samples noted to have been submitted with excessive substrate. Resampling is recommended in such situations to verify original laboratory results.

These reports are for the exclusive use of the addressed client and are rendered upon the condition that they will not be reproduced wholly or in part for advantising or other purposes over our signature or in connection with our name without special written permission. Samples not destroyed in testing are retained a maximum of sixty (60) days.

ANALYST: Jason Thompson

QA COORDINATOR:

Page 2 of 2

<sup>=</sup> Excessive Substrate May Bias Sample Results

MAR.19'2004 12:08

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### **CHAIN OF CUSTODY**

EMC Labs, Inc. 9830 S. 51<sup>87</sup> St., Ste B-109 Phoenix, AZ 85044 (800) 362-3373 Fax (480) 893-1726 TAT: Zday

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	WAILU	KU, HI 96	793		<u> </u>	÷	
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# LIMITED INSPECTION REPORT FOR ASBESTOS AND LEAD-BASED PAINT

Wai'anapanapa State Park Cabin Park Improvements Hana, Maui, Hawaii

Prepared for:

Lou Chan & Associates 725 Kapiolani Blvd., Suite C-207 Honolulu, Hawaii 96813

Prepared by:

Enviro Quest, Inc. 98-029 Hekaha Street, Suite 21 Aiea, Hawaii 96701 808.486.5881 eqi@enviroquestinc.com

March 2011

**ENVIROQUEST Project 5880** 



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	3.2 Results	
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10010	2 Torrogonosas - ann saintai,	
APPE	NDICES	
Α.	Asbestos	
В.	Lead	
C.	Photographic Documentation	

EQI Project No. 5880



### **EXECUTIVE SUMMARY**

ENVIROQUEST, INC. (EQI) was retained by Lou Chan & Associates to conduct a limited hazardous material inspection of the 12 cabins at Wai'anapanapa State Park in Hana on the island of Maui, Hawaii. The inspection was conducted on March 3, 2011.

The objective of the inspection was to determine the location of asbestos-containing materials (ACMs) and lead-based paints (LBPs) which may be disturbed by the renovation work. The inspection was limited to the areas affected by the renovation work as shown in the Site Plan and described in the Scope of Work provided by Lou Chan & Associates.

The roofs of cabins 5 and 6 are new and were not included in this inspection per Lou Chan & Associates.



### Asbestos Containing Material

The listed material was identified as asbestos-containing materials.

Location	Condition
Cabin 1, kitchen	D
Cabin 1, storage	G
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Cabin 1, bedroom and bedroom	D
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Cabin 2 bedroom bedroom by	D
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	D
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Cabin 3, kitchen	D
Cabin 4, kitchen	D
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sink mastic	
Cabin 5, kitchen	D
Cabin 5, bedroom, bedroom by	D
kitchen area and hallway	
Cabin 5 kitchen, undercoating	G
sink mastic	
Cabin 6, kitchen	D
Cabin 6. bedroom, bedroom by	D
	_
	D
Cabin 6 kitchen undercoating	G
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Cabin 7, storage Cabin 8, bedroom, bedroom by	D D
	Cabin 1, kitchen  Cabin 1, storage  Cabin 1, bedroom and bedroom by kitchen area Cabin 1 kitchen, undercoating sink mastic Cabin 2, kitchen  Cabin 2, bedroom, bedroom by kitchen area, storage and hallway Cabin 2 kitchen, undercoating sink mastic Cabin 3, bathroom, storage, hallway and kitchen sink area Cabin 3, bedroom and bedroom by kitchen area Cabin 3, kitchen  Cabin 4, kitchen  Cabin 4, bedroom, bedroom by kitchen area, hallway and storage Cabin 4 kitchen, undercoating sink mastic Cabin 5, kitchen  Cabin 5, kitchen



brown and white specks tile	kitchen area and kitchen	
Black mastic under 12"X12" brown speckled tile	Cabin 8, hallway and bathroom	D
9"X9" tan tile and black mastic	Cabin 8, storage	G
Gray mastic	Cabin 8 kitchen, undercoating sink mastic	G
Black mastic under 12"X12" cream with tan specks tile	Cabin 9, bedroom, bedroom by kitchen area, kitchen, hallway and bathroom	D
9"X9" tan tile and black mastic	Cabin 9, storage	D
Gray mastic	Cabin 9 kitchen, undercoating sink mastic	G
Sealant	Cabin 9 roof, pipe penetration and corrugated metal sheet seam sealant	G
Black mastic under 12"X12" cream with tan specks tile	Cabin 10, kitchen, bedroom, bedroom by the kitchen area, bathroom and hallway	Ď
9"X9" tan tile with maroon and white specks and black mastic	Cabin 10, storage	G
Gray mastic	Cabin 10 kitchen, undercoating sink mastic	G
Tile and mastic under 12"X12" brown speckled tile	Cabin 11, kitchen, bedroom, bedroom by the kitchen area, hallway and storage	D
Sealant	Cabin 11 roof, corrugated metal sheet seam sealant	D
Black mastic under 12"X12" tan with brown and white specks tile	Cabin 12, kitchen, bedroom and bedroom by the kitchen area	D
Black mastic under 12"X12" brown speckled tile	Cabin 12, hallway	D
9"X9" tan tile and black mastic	Cabin 12, storage and bedroom	D
Black and tan mastic under 9"X9" brown speckled tile	Cabin 12, bedroom, replacement tile	D
Black mastic under 9"X9" tan with maroon specks tile	Cabin 12, bedroom replacement tile	D
9"X9" tan tile with white specks and black mastic	Cabin 12, bedroom replacement tile	D
Sealant	Cabin 12 roof, pipe penetration and corrugated metal sheet seam sealant	G

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

The damaged ACM should be repaired or removed as soon as feasible. No immediate abatement action is necessary for the ACM that was found to be in good condition. However, due to the likelihood of disturbance during the renovation, the material must be removed prior to the renovation activity. All removal must be completed by a certified asbestos abatement contractor under controlled conditions in accordance with EPA and Hawaii Department of Health (HDOH) regulations. Work should also be monitored by an independent industrial hygiene professional.



### Lead-based Paint

Lead-based paints were not identified in this inspection.

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### 1.0 INTRODUCTION

ENVIROQUEST, INC. (EQI) was retained by Lou Chan & Associates to conduct a limited hazardous material inspection of the 12 cabins at Wai'anapanapa State Park in Hana on the island of Maui, Hawaii. The inspection was conducted on March 3, 2011.

The objective of the inspection was to determine the location of asbestos-containing materials (ACMs) and lead-based paints (LBPs) which may be disturbed by the renovation work. The inspection was limited to the areas affected by the renovation work as shown in the site plan and scope of work provided by Lou Chan & Associates.

The roofs of cabins 5 and 6 are new and were not included in this inspection per Lou Chan & Associates.



### 2.0 ASBESTOS

One hundred forty-one samples were collected from suspect asbestos-containing materials.

#### 2.1 Methodology

Prior to sampling, EQI visually surveyed the interior and exterior of the buildings for suspect asbestos-containing materials and homogeneous areas (areas that have uniform color, texture, and appearance.) Suspect materials were divided into friable and non-friable materials and placed in one of the following EPA categories:

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

Sampling methodology followed the general guidelines for bulk asbestos sampling as presented in Section 40, Part 763 (AHERA) of the Code of Federal Regulations (CFR) and Hawaii Administrative Rules (HAR) 11-501 and 11-502.

#### 2.2 Results

Samples were submitted to Forensic Analytical in Rancho Dominguez, California, and were analyzed by polarized-light microscopy (PLM), using EPA Method 600/R-93-116, Visual Area Estimation.

Forensic Analytical is accredited for bulk asbestos analysis through successful participation in the US Department of Commerce, National Institute of Standards and Technologies (NIST), National Voluntary Laboratory Accreditation Program (NVLAP). The laboratory is currently registered to provide asbestos laboratory services in the State of Hawaii under Title 11 of the Hawaii Administrative Rules (HAR), Chapter 504.

Based on the laboratory analytical reports 75 of the 141 samples were identified as ACM. The National Emission Standard for Hazardous Air Pollutants (NESHAP), 40 CFR 61 Part M, defines asbestos containing materials as those which contain greater than 1% asbestos. NESHAP also categorizes ACM as either being a friable material, a Category I non-friable material or a Category II non-friable material. Friable materials are defined as those that can be reduced to powder by hand pressure. Category I non-friable materials are the asphalt roofing materials, resilient floor covering, excluding linoleum, packings, and gaskets. Category II non-friable materials are the cementitious materials such as stucco and asbestos cement board. In accordance with NESHAP requirements, samples consisting of distinct layers of materials were analyzed and reported separately by the laboratory. NESHAP also states that if asbestos is identified in amounts less than 10%, the owner or operator of the building must elect to assume the amount to be greater than 1% and treat the material as asbestos-containing material or request verification of the amount by point counting. No samples were point counted for this report.

A summary of the homogeneous materials is presented in Table 1. The laboratory analytical report and chain of custody forms are attached.

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### TABLE 1 Homogeneous Material Summary Wai'anapanapa State Park Cabins

Homogeneous Material	ACM <sub>1</sub> (Y/N)	Location	Sample ID	Friable (Y/N)	Condition <sub>2</sub>
12" X 12" cream tile with tan specks and tan mastic with gray leveling compound (2-layer tile)	Y 2 <sup>nd</sup> layer tile and tan mastic	Cabin 3, bathroom, storage and kitchen	5880331101 5880331102 5880331103	N	D
12" X 12" light-gray tile with white specks and tan mastic	Y	Cabin 3, bedroom and bedroom by kitchen area	5880331104 5880331105 5880331106	N	O
12° X 12° brown speckled tile and black mastic (2 layer tile)	Y 2 <sup>nd</sup> layer tile and black mastic	Cabin 3, kitchen	5880331107 5880331108 5880331109	N	D
Gray mastic	N	Cabin 3 kitchen, undercoating sink mastic	5880331110	N	G
Sealant	N	Cabin 3, roof, pipe penetration	5880331111	N	D
12° X12" tan tile with white and brown specks and black mastic	Y Black mastic	Cabin 8, kitchen, bedroom and bedroom by kitchen area	5880331112 5880331113 5880331114	N	D
12" X 12"brown speckled tile and black mastic	Y Black mastic	Cabin 8, hallway and bathroom	5880331115 5880331116 5880331117	N	ם
9" X 9" tan tile and black mastic	Y	Cabin 8, storage area	5880331118 5880331119 5880331120	N	G
Gray mastic	Y	Cabin 8 kitchen, undercoating sink mastic	5880331121	N	G
Sealant	N	Cabin 8, roof, pipe penetration	5880331122	N	G
Sealant	N	Cabin 8, corrugated roof seam	5880331123	N	G
12° X 12° brown speckled design tile and black mastic	Y Black mastic	Cabin 10, kitchen, bedroom and bedroom by kitchen area	5880331124 5880331125 5880331126	N	ס
9" X 9" tan tile with maroon and white specks and black mastic	Υ	Cabin 10, storage	5880331127 5880331128 5880331129	N	G
Gray mastic	Υ	Cabin 10 kitchen, undercoating sink mastic	5880331130	N	G
Sealant	N	Cabin 10, corrugated roof seam	5880331131	N	G
Sealant	N	Cabin 10, pipe penetration	5880331132	N	G
12" X 12" tan with brown and white specks with brown glue and black	Y Black mastic	Cabin 12, kitchen, bedroom and bedroom by the kitchen	5880331133 5880331134	N	D

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Homogeneous Material	ACM <sub>1</sub> (Y/N)	Location	Sample ID	Friable (Y/N)	Condition <sub>2</sub>
mastic			5880331135	55000000	79/25/19/5/19
12" X 12" brown speckled tile and black mastic	Y Black mastic	Cabin 12, hallway	5880331136 5880331137 5880331138	N	D
9° X 9° tan tile and black mastic	Y	Cabin 12, storage and bedroom (bedroom/replacement tile)	5880331139 5880331140 5880331141	N	٥
9" X 9° brown speckled tile and black/tan mastic	Y Black/tan mastic	Cabin 12, bedroom (replacement tile)	5880331142 5880331143 5880331144	N	D
9" X 9" tan with maroon and white specks and black mastic	Y Black mastic	Cabin 12, bedroom (replacement tile)	5880331145 5880331146 5880331147	N	ם
9" X 9" tan tile with white specks and black mastic	Y	Cabin 12, bedroom (replacement tile)	5880331148 5880331149 5880331150	N	D
Sealant	Υ	Cabin 12, roof, pipe penetration	5880331151	N	D
Sealant	Y	Cabin 12, corrugated roof seam	5880331152	N	D
12* X 12" brown tile with tan specks and black mastic (2layer tile)	Y 2 <sup>nd</sup> layer tile and black mastic	Cabin 11, kitchen, bedroom and bedroom by kitchen	5880331153 5880331154 5880331155	N	а
White mastic	N	Cabin 11 kilchen, undercoating sink mastic	5880331156	N	G
Sealant	N	Cabin 11, roof, pipe penetration	5880331157	N	G
Sealant	Y	Cabin 11, corrugated roof seam	5880331158	N	G
12" X 12" cream with tan specks tile and black mastic	Y Black mastic	Cabin 9, kitchen, bedroom and bedroom by the kitchen	5880331159 5880331160 5880331161	N	D
9" X 9" tan tile and black mastic	Y	Cabin 9, storage	5880331162 5880331163 5880331164	N	D
Gray mastic	Υ	Cabin 9 kitchen, undercoating sink mastic	5880331165	N	G
Sealant	Y	Cabin 9, roof, pipe penetration	5880331166	N	G
Sealant	Y	Cabin 9, corrugated room seam	5880331167	N	G
12° X 12° brown speckled tile and black mastic (2 layer tile)	Y 2 <sup>nd</sup> layer tile and black mastic	Cabin 7, kitchen and bedroom by kitchen	5880331168 5880331169 5880331170	N	D
12" X12" tan with brown and white	Y	Cabin 7, bedroom, hallway and bathroom	5880331171	N	D

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Homogeneous Material	ACM <sub>1</sub> (Y/N)	Location	Sample ID	Friable (Y/N)	Condition <sub>2</sub>
specks and black mastic	Black mastic		5880331172 5880331173		
9" X 9" tan tile and black mastic	Y	Cabin 7, storage	5880331174 5880331175 5880331176	N	۵
White mastic	N	Cabin 7 kitchen, undercoating sink mastic	5880331177	N	G
Sealant	N	Cabin 7, roof, pipe penetration	5880331178	N	G
Sealant	N	Cabin 7, corrugated roof seam	5880331179	N	G
12 <sup>1</sup> X 12 <sup>1</sup> brown speckled tile and black mastic	Y 2 <sup>nd</sup> layer tile and black mastic	Cabin 4, kitchen	5880331180 5880331181 5880331182	N	D
12" X 12" tan with brown specks tile and black mastic	N	Cabin 4, bedroom and kitchen (kitchen/replacement tile)	5880331183 5880331184 5880331185	N	O
12" X 12" light-gray tile with white and matoon specks and black mastic	Y Tile only	Cabin 4, bedroom hallway and bedroom by kitchen	5880331186 5880331187 5880331188	N	D
Gray mastic	Υ	Cabin 4 kitchen, undercoating sink mastic	5880331189	N	G
Sealant	N	Cabin 4, roof, pipe penetration	5880331190	N	G
Sealant	N	Cabin 4, corrugated roof seam	5880331191	N	G
12" X 12" brown speckled tile and black/tan mastic	Y 2 <sup>nd</sup> layer tile and tan mastic	Cabin 5, kitchen	5880331192 5880331193 5880331194	N	D
12" X 12" light-gray tile with brown mastic	Y Tile only	Cabin 5, bedroom and hallway	5880331195 5880331196 5880331197	N	ם
12° X 12 <sup>n</sup> cream with tan specks tile and black mastic	N	Cabin 5, bathroom	5880331198 5880331199 58803311100	N	D
Gray mastic	Υ	Cabin 5 kitchen, undercoating sink mastic	58803311101	N	G
12° X 12° brown speckled tile and brown mastic	Y 2 <sup>nd</sup> layer tile and brown mastic	Cabin 6, kitchen	58803311102 58803311103 58803311104	N	D
12" X 12" light-gray tile and black mastic	Y Tile only	Cabin 6, bedrooms, storage and hallway	58803311105 58803311106 58803311107	N	מ
12" X 12" cream with tan specks and	Y	Cabin 6, bathroom	58803311108	N	G



Homogeneous Material ACM <sub>1</sub> (Y/N)		Location	Sample ID	Friable (Y/N)	Condition	
black mastic (2 layer tile)			58803311109 58803311110			
Gray mastic	Y	Cabin 6 kitchen, undercoating sink mastic	58803311111	N	G	
12" X 12" brown speckled tile and black mastic (2 layer tile)			58803311112 58803311113 58803311114	N	D	
12" X 12" cream tile with tan specks and brown mastic	N	Cabin 1, hallway	58803311115 58803311116 58803311117	N	D	
12° X 12° light-gray tile with white and maroon specks and brown mastic	Υ	Cabin 1, bedrooms	58803311118 58803311119 58803311120	N	D	
12° X 12" tan with marcon and white specks tile and black mastic	Y Tile only	Cabin 1, storage	58803311121 58803311122 58803311123	N	G	
Gray mastic	Υ	Cabin 1 kitchen, undercoating sink mastic	58803311124	N	G	
Sealant	N	Cabin 1, roof, pipe penetration	58803311125	N	G	
Sealant	N	Cabin 1, corrugated roof seam	58803311126	N	G	
12° X 12° brown speckled tile and black mastic (2 layer tile)	Y 2 <sup>nd</sup> layer tile and mastic	Y 5880331112 ayer tile and cabin 2, kitchen 5880331112		N	D	
12" X 12" light-gray with white and maroon specks and brown mastic	Y	Cabin 2, bedrooms and hallway	58803311130 58803311131 58803311132	N	D	
12° X 12° cream with tan specks tile and brown mastic	N	Cabin 2, hallway and bedroom by kitchen (replacement tile)	58803311133 58803311134 58803311135	N	D	
12" X 12" brown tan speckled design tile and black mastic	N	Cabin 2, bathroom	58803311136 58803311137 58803311138	N	G	
Gray mastic	Υ	Cabin 2 kitchen, undercoating sink mastic	58803311139	N	G	
Sealant	N	Cabin 2, roof, pipe penetration	58803311140	N	G	
Sealant	N	Cabin 2, corrugated roof seam	58803311141	<u>N</u>	G	

ACM=>1% asbestos content
 Good (G); Damaged (D) <10% distributed or 25% localized; Significent Damage (SD), >10% distributed or 25% localized;



### **3.0 LEAD**

Seventeen paint chip samples were collected from painted or coated materials that may be disturbed by the renovation work.

### 3.1 Methodology

Prior to sampling, EQI visually surveyed the interior and exterior of the buildings for painted building components. Our sampling methodology generally followed the "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing" published by the Department of Housing and Urban Development (HUD) in 1995.

### 3.2 Results

Based on the laboratory report no paint samples exceeded the EPA guidelines for lead in paint. EPA defines LBP as paint or other coatings containing lead in equal to, or in excess of, 0.5% lead by weight. A homogeneous paint summary is presented in Table 2. The laboratory analytical report and chain-of-custody forms are attached.

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TABLE 2
Homogeneous Paint Summary
Wai'anapanapa State Park Cabin

Paint Color	Int/Ext	LBP <sub>4</sub> (Y/N)	LCP <sub>2</sub> (Y/N)	Paint Location	Sample ID	Condition <sub>3,4</sub>
Green	Ext	N N	l N	Cabin 3, wood wall	5880331101	Fair
Tan	Int	N	N	Cabin 3, wood wail	5880331102	Intact
White	Int	N	N	Cabin 3, wood window frame	5880331103	Intact
Green	Ext	N	N	Cabin 8, wood wall	5880331104	Fair
White	Int	N	N	Cabin 8, wood window frame	5880331105	Intact
Orange	Int	N	Y	Cabin 8, corrugated metal roof	5880331106	Fair
Maroon	Int	N	N	Cabin 8, wood wall	5880331107	Intact
Pink	Int	N	Y	Cabin B, wood kitchen cabinet	5880331108	Fair
Maroon	Int	N	N	Cabin 10, wood door	5880331109	Intact
Tan	int	N	N	Cabin 10, wood wall	5880331110	Intact
Orange	Ext	N	N	Cabin 10, corrugated metal roof	5880331111	Fair
Green	Ext	N	N	Cabin 9, wood wall	5880331112	Intact
Maroon	Int	N	Y	Cabin 9, wood wall	5880331113	Intact
White	Int	N	N	cabin 9, wood window frame	5880331114	Intact
Orange	Ext	N	ΙÝ	Cabin 9, corrugated metal roof	5880331115	Fair
Orange	Int	N	N	Cabin 1, wood door	5880331116	Intact
Green	Ext	N	Y	Cabin 1, wood wall	5880331117	Intact

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## 4.0 CONCLUSION

### 4.1 Asbestos-Containing Materials

The listed material was identified as asbestos-containing materials.

T01		Condition
Tile and tan mastic under 12"X12" brown speckled design tile	Cabin 1, kitchen	D
12"X12" tan with maroon and white	Cabin 1, storage	G
specks tile		
12"X12" light-gray tile	Cabin 1, bedroom and bedroom	D
	by kitchen area	
Gray mastic	Cabin 1 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown	Cabin 2, kitchen	D
speckled design tile		_
12"X12" light-gray tile with white and	Cabin 2, bedroom, bedroom by	D
maroon specks and brown mastic	kitchen area, storage and hallway	
Gray mastic	Cabin 2 kitchen, undercoating	G
	sink mastic	
Tile and tan mastic under 12"X12" cream	Cabin 3, bathroom, storage,	D
tile with tan specks	hallway and kitchen sink area	_
12"X12" light-gray tile with white specks	Cabin 3, bedroom and bedroom	D
12 7712 Ingrit gray the wint write appeals	by kitchen area	1
Tile and black mastic under 12"X12"	Cabin 3, kitchen	D
brown speckled tile	•	
Tile and black mastic under 12"X12" brown speckled tile	Cabin 4, kitchen	D
12"X12" light-gray tile with white and	Cabin 4, bedroom, bedroom by	D
maroon specks	kitchen area, hallway and	-
narcon species	storage	
Cray mactic		G
Gray mastic	Cabin 4 kitchen, undercoating	G
T" 1 4000(400)	sink mastic	
Tile and tan mastic under 12"X12" brown speckled tile	Cabin 5, kitchen	D
12"X12" light-gray tile with white and	Cabin 5, bedroom, bedroom by	D
maroon specks	kitchen area and hallway	
Gray mastic	Cabin 5 kitchen, undercoating	G
	sink mastic	-
Tile and tan mastic under 12"X12" brown	Cabin 6, kitchen	D
speckled tile	Odbin o, Ritohen	U
	Cabin & bodroom bodroom by	П
12"X12" light-gray tile with white specks	Cabin 6, bedroom, bedroom by	D
	kitchen area, storage and	
	hallway	
Tile and black mastic under 12"X12"	Cabin 6, bathroom	D
cream with tan specks tile		
Gray mastic	Cabin 6 kitchen, undercoating	G
-	sink mastic	
Tile and black mastic under 12"X12"	Cabin 7, kitchen and bedroom	Ď
brown speckled tile	by kitchen area	
Black mastic under 12"X12" tan with	Cabin 7, bedroom, hallway and	D
brown and white specks tile	bathroom	J



Material	Location	Condition
9"X9" tan tile and black mastic	Cabin 7, storage	D
Black mastic under 12"X12" tan with	Cabin 8, bedroom, bedroom by	D
brown and white specks tile	kitchen area and kitchen	
Black mastic under 12"X12" brown	Cabin 8, hallway and bathroom	D
speckled file		
9"X9" tan tile and black mastic	Cabin 8, storage	G
Gray mastic	Cabin 8 kitchen, undercoating	G
	sink mastic	
Black mastic under 12"X12" cream with	Cabin 9, bedroom, bedroom by	D
tan specks tile	kitchen area, kitchen, hallway	
	and bathroom	
9"X9" tan tile and black mastic	Cabin 9, storage	D
Gray mastic	Cabin 9 kitchen, undercoating	G
	sink mastic	
Sealant	Cabin 9 roof, pipe penetration	G
	and corrugated metal sheet	
	seam sealant	
Black mastic under 12"X12" cream with	Cabin 10, kitchen, bedroom,	D
tan specks tile	bedroom by the kitchen area,	
	bathroom and hallway	**************************************
9"X9" tan tile with maroon and white	Cabin 10, storage	G
specks and black mastic		
Gray mastic	Cabin 10 kitchen, undercoating	G
······································	sink mastic	
Tile and mastic under 12"X12" brown	Cabin 11, kitchen, bedroom,	D
speckled tile	bedroom by the kitchen area,	
	hallway and storage	<u> </u>
Sealant	Cabin 11 roof, corrugated metal	D
	sheet seam sealant	
Black mastic under 12"X12" tan with	Cabin 12, kitchen, bedroom and	D
brown and white specks tile	bedroom by the kitchen area	_
Black mastic under 12"X12" brown	Cabin 12, hallway	D
speckled tile		
9"X9" tan tile and black mastic	Cabin 12, storage and bedroom	Ď
Black and tan mastic under 9"X9" brown	Cabin 12, bedroom,	D
speckled tile	replacement tile	
Black mastic under 9"X9" tan with	Cabin 12, bedroom	D
maroon specks tile	replacement tile	
9"X9" tan tile with white specks and black	Cabin 12, bedroom	D
mastic	replacement tile	_
Sealant	Cabin 12 roof, pipe penetration	G
	and corrugated metal sheet	
	seam sealant	

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

The damaged ACM should be repaired or removed as soon as feasible. No immediate abatement action is necessary for the ACM that was found to be in good condition. However, due to the likelihood of disturbance during the renovation, the material must be removed prior to the renovation activity. All removal must be completed by a certified asbestos abatement contractor under controlled conditions in accordance with EPA and Hawaii Department of Health (HDOH) regulations. Work should also be monitored by an independent industrial hygiene professional.



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Lead-based paints were not identified in this inspection.

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### 5.0 LIMITATIONS

The information set forth is based solely on the agreed upon scope of services, on personal observation, laboratory data, and information provided by Lou Chan & Associates.

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

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

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

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

Jim Cardenas Industrial Hygienist HIASB0175

# Asbestos

Analytical Report

# Appendix A



EnviroQuest, Inc.

Existing Conditions – Asbestos/Lead/Hazardous Material Survey 13280-116



# Bulk Asbestos Analysis (EPA Method 600/R-93-116, Visual Area Estimation)

98-029 Hekaha Street Suite 21 Aiea, HI 96701						Client ID: 7104 Report Number: B146154 Date Received: 03/07/11 Date Analyzed: 03/14/11 Date Printed: 03/14/11 First Reported: 03/14/11			
Job ID/Site: 5880; Waianapanapa State Date(s) Collected: 03/03/2011	e Park Cabin P	ark Improvemen	ts		FALI Job ID: 7104  Total Samples Submitted: 141  Total Samples Analyzed: 109				
Sample ID	Lab Number	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer		
5880331101  Layer: Beige Tile  Layer: Beige Mastic  Layer: Grey Non-Fibrous Material  Layer: Tan Tile  Layer: Tan Mastic with Tile Debris	50637219	Chrysotile Chrysotile	ND ND ND 2 % Trace						
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (Trace	)						
5880331102 Layer: Beige Tile Layer: Beige Mastic Layer: Grey Non-Fibrous Material Layer: Tan Tile Layer: Tan Mastic	50637220.	Chrysotile	ND ND ND 2 % ND						
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (Trace	)						
5880331103 Layer: Beige Tile Layer: Beige Mastic Layer: Grey Non-Fibrous Material Total Composite Values of Fibrous Co Cellulose (Trace)	50637221	Asbestos (ND)	ND ND ND						
5880331104 Layer: Light Grey Tile Layer: Tan Mastic	50637222	Chrysotile	2 % ND						
Total Composite Values of Fibrous Con Cellulose (Trace)	mponents:	Asbestos (2%)							
5880331105 Layer: Light Grey Tile Layer: Tan Mastic	50637223	Chrysotile	2 % ND						
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (2%)							

Client Name: EnviroQuest, Inc.					Report Numb Date Printed		
Sample ID	Lab Number		Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331106	50637224						
Layer: Light Grey Tile		Chrysotile	2 %				
Layer: Tan Mastic	entropig garagayassansayas		ND		-kija arken musen sera saan menasa s		
Total Composite Values of Fibrous Con	ponents:	Asbestos (2%)					
Cellulose (Trace)							
5880331107	50637225						
Layer: Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Tan Tile		Chrysotile	3 %				
Layer: Black Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Con	ponents:	Asbestos (Trace)					
Cellulose (Trace)							
5880331108	50637226						
Layer: Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Tan Tile		Chrysotile	3 %				
Layer: Black Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Con Cellulose (Trace)	iponents;	Asbestos (Trace)					
5880331109	50637227						
Layer: Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Tan Tile		Chrysotile	3 %				
Layer: Black Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (Trace)					
5880331110	50637228					n a banta n batatatané bah	
Layer: Grey Semi-Fibrous Material	30037220		ND				
Total Composite Values of Fibrous Com	nonenter	Achaetas (NID)					
Cellulose (15 %)	iponents	Asbestos (ND)					
5880331111	50637229						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
5880331112	50637230						
Layer: Tan Tile			ND				
Layer: Black/Tan Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (Trace)					
5880331113	50637231						
Comment: Sample not analyzed due to		result in caries					
5880331114	50637232	result in Scries.					
Comment: Sample not analyzed due to		LITTLE FOR THE PARTY					

Client Name: EnviroQuest, Inc.					Report Numl Date Printed		
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331115	50637233						
Layer: Brown Tile			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents:	Asbestos (Trace	)				
5880331116 Comment: Sample not analyzed due to	50637234 prior positive	result in series.					
5880331117  Comment: Sample not analyzed due to	50637235 prior positive	result in series.					
5880331118	50637236					esti ali akuwa Asari dala da wa	
Layer: Tan Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (5%)					
5880331119	50637237						
Comment: Sample not analyzed due to	prior positive	result in series.					
5880331120	50637238			-			
Comment: Sample not analyzed due to	prior positive	result in series.					
5880331121	50637239						
Layer: Grey Semi-Fibrous Material	00007007	Chrysotile	7 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (7%)					
5880331122	50637240						
Layer: Dark Grey Non-Fibrous Material Layer: Paint			ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
5880331123	50637241					. de la companya de l	
Layer: Dark Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (ND)					
5880331124	50637242						
Layer: Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic		Chrysotile	2 %		greens dags eightessams für den	e egyps operators en entropy (r	agilgere desemble egy mystyja mes i
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (Trace)					
5880331125	50637243						
Comment: Sample not analyzed due to	prior positive	result in series.					
5880331126  Comment: Sample not analyzed due to	50637244 prior positive	result in series					

Client Name: EnviroQuest, Inc.					Date Printed	: 03/14/	11
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331127	50637245						
Layer: Tan Tile		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (3%)					
5880331128	50637246						
Comment: Sample not analyzed due to	o prior positive	result in series.					
5880331129	50637247						
Comment: Sample not analyzed due to	o prior positive	result in series.					
5880331130	50637248						
Layer: Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (7%)					
5880331131	50637249						
Layer: Dark Grey Non-Fibrous Materia Layer: Paint	al		ND ND				
Total Composite Values of Fibrous Co. Cellulose (Trace)	mponents:	Asbestos (ND)					
5880331132	50637250						
Layer: Dark Grey Non-Fibrous Materi Layer: Paint	al		ND ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (ND)					
5880331133	50637251						
Layer: Tan Tile			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Con Cellulose (Trace)	mponents:	Asbestos (Trace)					
5880331134  Comment: Sample not analyzed due to	50637252 o prior positive	result in series.					
5880331135	50637253						
Comment: Sample not analyzed due to	A CONTRACTOR OF THE PARTY OF TH	result in series.					
5880331136	50637254		, pulletin perioditale by e				
Layer: Brown Tile			ND				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Co. Cellulose (Trace)	mponents:	Asbestos (Trace)					
5880331137	50637255	e e en e en e e e e e e e e e e e e e e					
Comment: Sample not analyzed due to	prior positive	result in series.					
5880331138	50637256		namana di Kamanilan sak				van en
Comment: Sample not analyzed due to		result in series.					

Client Name: EnviroQuest, Inc.					Date Printed	: 03/14/	11
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331139	50637257						
Layer: Brown Tile Layer: Black Mastic		Chrysotile Chrysotile	3 % 2 %				
Total Composite Values of Fibrous C Cellulose (Trace)	Components:	Asbestos (3%)					
5880331140 Comment: Sample not analyzed due	50637258 to prior positive	result in series.					
5880331141 Comment: Sample not analyzed due	50637259 to prior positive	result in series.					
5880331142 Layer: Beige Tile Layer: Black and Tan Mastic	50637260	Chrysotile	ND Trace				
Total Composite Values of Fibrous C Cellulose (Trace)	components: A	Asbestos (Trace)					
5880331143 Layer: Beige Tile Layer: Black and Tan Mastic	50637261	Chrysotile	ND Trace				
Total Composite Values of Fibrous C Cellulose (Trace)	omponents: 2	Asbestos (Trace)					
5880331144 Layer: Beige Tile	50637262		ND				
Total Composite Values of Fibrous C Cellulose (Trace)	omponents: A	Asbestos (ND)					
5880331145 Layer: Tan Tile Layer: Black Mastic	50637263	Chrysotile	ND 2 %				· III of the League of the Lea
Total Composite Values of Fibrous C Cellulose (Trace)	omponents: A	Asbestos (Trace)					
5880331146 Comment: Sample not analyzed due	50637264 to prior positive	result in series.					
5880331147  Comment: Sample not analyzed due	50637265 to prior positive	result in series.					
5880331148 Layer: Brown Tile Layer: Black Mastic	50637266	Chrysotile Chrysotile	5 % 2 %				
Total Composite Values of Fibrous C Cellulose (Trace)	omponents: A	Asbestos (5%)					
5880331149 Comment: Sample not analyzed due	50637267 to prior positive	result in series.					
5880331150	50637268	Caracle Grand Red Grand States		termedik rakkilisi di da	imalekirim kiikili ilisaasi.		anathanidikini

Client Name: EnviroQuest, Inc.					Date Printed		
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331151	50637269						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	iponents:	Asbestos (5%)					
5880331152	50637270						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %				
Total Composite Values of Fibrous Con Cellulose (Trace)	iponents:	Asbestos (5%)					
5880331153	50637271						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	iponents:	Asbestos (2%)					
5880331154  Comment: Sample not analyzed due to	50637272 prior positive	result in series.					
5880331155	50637273	and American Contract Contract	. (10.0000000000000000000000000000000000				
Comment: Sample not analyzed due to	prior positive	result in series.					
5880331156 Layer: Beige Semi-Fibrous Material	50637274	anne de conseguir e de contentra à coloni de les elegantes de la financia de la colonia de la financia de la c	ND				
Total Composite Values of Fibrous Com Cellulose (15 %)	ponents:	Asbestos (ND)					
5880331157	50637275						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents: .	Asbestos (ND)					
5880331158	50637276						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (5%)					
5880331159	50637277						
Layer: Beige Tile	50051211		ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Com Cellulose (Trace)	ponents:	Asbestos (Trace	)				
5880331160	50637278						
Comment: Sample not analyzed due to		result in series.					
5880331161	50637279	ina adam AACTAAA	n parte di Antoli (1906)		nakonsesendakên		
Comment: Sample not analyzed due to		rrsykte <b>st s</b> ittet sittstift et					

Client Name: EnviroQuest, Inc.					Date Printed		
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331162	50637280						•
Layer: Tan Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (5%)					
5880331163	50637281						
Comment: Sample not analyzed due to	o prior positive	result in series.					
5880331164	50637282	hilati sikuran datan hari a 190 lah					
Comment: Sample not analyzed due to	o prior positive	result in series.					
5880331165	50637283						
Layer: Light Grey Semi-Fibrous Mater	F F :	Chrysotile	7 %				
Total Composite Values of Fibrous Co Cellulose (Trace)		Asbestos (7%)					
5880331166	50637284						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %				
Total Composite Values of Fibrous Co.	mponents:	Asbestos (5%)					
Cellulose (Trace)							
5880331167	50637285						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %			.,	
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (5%)					
5880331168	50637286						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	3 %	general parent grows a construction gar			
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents:	Asbestos (2%)					
5880331169	50637287						
Comment: Sample not analyzed due to	o prior positive	result in series.					
5880331170	50637288						
Comment: Sample not analyzed due to	o prior positive	result in series.					
5880331171	50637289						
Layer: Tan Tile			ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic	TAN IN COLUMN TO SERVICE STATE OF THE SERVICE STATE	Chrysotile	2 %				
Total Composite Values of Fibrous Con Cellulose (Trace)	mponents:	Asbestos (Trace)					
5880331172	50637290						- Communication of Asia
Comment: Sample not analyzed due to		result in series.					
5880331173	50637291	ren Arkant Burk Atas da halipidak		are transfirst bredts			
Comment: Sample not analyzed due to	o prior positive	result in series.					

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331174	50637292	JPC	20,01	~ 1 P 0	20,01	- JPC	-4,01
Layer: Tan Tile	20021222	Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (5%)					
5880331175  Comment: Sample not analyzed due to	50637293 prior positive	result in series.					
5880331176	50637294				1		
Comment: Sample not analyzed due to	prior positive	result in series.					
5880331177	50637295						
Layer: Beige Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Con Cellulose (5 %)	nponents:	Asbestos (ND)					
5880331178	50637296						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (ND)					
5880331179	50637297						
Layer: Grey Non-Fibrous Material Layer: Paint			ND ND				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (ND)					
5880331180	50637298						
Layer: Light Brown Tile Sheet Flooring	g		ND				
Layer: Tan Mastic		Cl	ND 5 %				
Layer: Brown Tile Layer: Black Mastic with Tile Debris		Chrysotile Chrysotile	5 % Trace				
Total Composite Values of Fibrous Cor		Asbestos (2%)	Trace		Zeroje u sustanci.		
Cellulose (Trace)	nponents	Aspesios (270)					
5880331181	50637299						
Layer: Light Brown Tile Sheet Flooring			ND				
Layer: Tan Mastic	>		ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents: .	Asbestos (2%)					
5880331182	50637300						
Layer: Light Brown Tile Sheet Flooring			ND				
Layer: Tan Mastic	-		ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic with Tile Debris		Chrysotile	Trace				

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Client Name: EnviroQuest, Inc.					Date Printed:	03/14	/11
Sample ID	Lab Number	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331183  Layer: Dark Beige Tile  Layer: Tan Mastic with Debris	50637301		ND ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (ND)					
5880331184  Layer: Dark Beige Tile  Layer: Tan Mastic with Debris	50637302		ND ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents:	Asbestos (ND)					
5880331185  Layer: Dark Beige Tile  Layer: Tan Mastic with Debris  Layer: Black Mastic	50637303		ND ND ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents:	Asbestos (ND)					
5880331186  Layer: Dark Beige Tile  Layer: Tan Mastic with Debris	50637304	Chrysotile	2 % ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents: .	Asbestos (2%)					
5880331187 Layer: Dark Beige Tile Layer: Tan Mastic with Debris	50637305	Chrysotile	2 % ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents:	Asbestos (2%)					
5880331188 Layer: Dark Beige Tile Layer: Tan Mastic with Debris	50637306	Chrysotile	2 % ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents:	Asbestos (2%)					
5880331189 Layer: Light Grey Semi-Fibrous Material	50637307	Chrysotile	7 %				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents: ,	Asbestos (7%)					
5880331190 Layer: Grey Non-Fibrous Material Layer: Paint	50637308		ND ND	***************************************			
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents:	Asbestos (ND)					

Client Name: EnviroQuest, Inc.					Date Printed:	03/14	/11
Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331191	50637309						
Layer: Grey Non-Fibrous Material Layer: Paint			ND ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents: A	Asbestos (ND)					
5880331192	50637310						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents: A	Asbestos (2%)					
5880331193	50637311						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents; A	Asbestos (2%)					
5880331194	50637312						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Debris		,	ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents: 🔏	Asbestos (2%)					
5880331195	50637313			Alatina aliangan			
Layer: Dark Beige Tile	50051515	Chrysotile	2 %				
Layer: Tan Mastic with Debris		2.11,000.110	ND				
Total Composite Values of Fibrous Co	mponente:	Asbestos (2%)					
Cellulose (Trace)	imponents. F	aspesius (2 /0)					
5880331196	50637314						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	mponents: A	Asbestos (2%)					
5880331197	50637315	e tomore, militario del menogle comi		and the second and the second and	anna ga markimena ya masa a shi bishi i		era detrace esplication de la descripción
Layer: Dark Beige Tile	3000.010	Chrysotile	2 %				
Layer: Tan Mastic with Debris		,	ND				
Total Composite Values of Fibrous Co	mponents: A	Asbestos (2%)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.					Date Printed		
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331198	50637316						
Layer: Beige Tile			ND				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (ND)					
5880331199	50637317						
Layer: Beige Tile			ND				
Layer: Black and Tan Mastic			ND				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (ND)					
58803311100·	50637318						
Layer: Beige Tile	50057510		ND				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Cor	nponents'	Asbestos (ND)					
Cellulose (Trace)		Asbestes (tib)					
58803311101	50637319						
Layer: Light Grey Semi-Fibrous Mater	ial	Chrysotile	7 %	-04-000-05-05-050-050			
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (7%)					
58803311102	50637320						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311103	50637321						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Con Cellulose (Trace)	mponents:	Asbestos (2%)					
58803311104	50637322						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic		•	ND				
Total Composite Values of Fibrous Cor Cellulose (Trace)	mponents:	Asbestos (2%)					

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Client Name: EnviroQuest, Inc.					Date Printed		
Sample ID Lal	o Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311105 506  Layer: Dark Beige Tile  Layer: Tan Mastic with Debris	537323	Chrysotile	2 % ND				
Total Composite Values of Fibrous Compone Cellulose (Trace)	ents: A	Asbestos (2%)					
58803311106 500 Layer: Dark Beige Tile Layer: Tan Mastic with Debris	537324	Chrysotile	2 % ND				
Total Composite Values of Fibrous Compone Cellulose (Trace)	ents: A	Asbestos (2%)					
58803311107 506 Layer: Dark Beige Tile Layer: Tan Mastic with Debris	537325	Chrysotile	2 % ND				
Total Composite Values of Fibrous Compone Cellulose (Trace)	ents: /	Asbestos (2%)					
, and a graduate for the first that the first of the form of the contract of t	537326	Chrysotile Chrysotile Chrysotile	2 % ND 5 % Trace		e en en Statista de la Palacentina, em an	era a o à la cerba divida traval	
Total Composite Values of Fibrous Compone Cellulose (Trace)	ents: A	Asbestos (3%)					
58803311109 506  Layer: Beige Tile  Layer: Tan Mastic  Layer: Tan Tile  Layer: Black Mastic with Tile Debris  Total Composite Values of Fibrous Compone  Cellulose (Trace)	637327 ents: <i>A</i>	Chrysotile Chrysotile Chrysotile Chrysotile	2 % ND 5 % Trace				
58803311110 506  Layer: Beige Tile  Layer: Tan Mastic with Tile Debris  Layer: Tan Tile  Layer: Black Mastic with Tile Debris	537328	Chrysotile Chrysotile Chrysotile Chrysotile	2 % Trace 5 % Trace				
Total Composite Values of Fibrous Compone Cellulose (Trace)	ents: 🔏	Asbestos (3%)					
<b>58803311111</b> 506 Layer: Light Grey Semi-Fibrous Material	37329	Chrysotile	7 %				
Total Composite Values of Fibrous Compone Cellulose (Trace)	ents: A	Asbestos (7%)					

Client Name: EnviroQuest, Inc.					Date Printed		
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311112	50637330						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (2%)					
58803311113	50637331						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Comp	onents:	Asbestos (2%)					
Cellulose (Trace)							
58803311114	50637332						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (2%)					
58803311115	50637333						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (ND)					
58803311116	50637334						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	onents:	Asbestos (ND)					
58803311117	50637335						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (ND)					
58803311118	50637336		an a a contantant di				ananga santaha salah dan silantah salah
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Comp Cellulose (Trace)	oonents:	Asbestos (2%)					

Client Name: EnviroQuest, Inc.					Date Printed:	03/14	/11
Sample ID	Lab Numbe	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311119 Layer: Dark Beige Tile Layer: Tan Mastic with Debris	50637337	Chrysotile	2 % ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311120 Layer: Dark Beige Tile Layer: Tan Mastic with Debris	50637338	Chrysotile	2 % ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311121 Layer: Tan Tile Layer: Tan Mastic with Debris	50637339	Chrysotile	2 % ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311122 Layer: Tan Tile Layer: Tan Mastic with Debris	50637340	Chrysotile	2 % ND		to Pari I alia Barrera e per favorità e e secreta		
Total Composite Values of Fibrous Con Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311123 Layer: Tan Tile Layer: Tan Mastic with Debris	50637341	Chrysotile	2 % ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	ponents: .	Asbestos (2%)					
58803311124 Layer: Light Grey Semi-Fibrous Materi	50637342 al	Chrysotile	7 %				
Total Composite Values of Fibrous Con Cellulose (Trace)	iponents;	Asbestos (7%)					
58803311125 Layer: Grey Non-Fibrous Material Layer: Paint	50637343	tre, sopri först vilgesekretlige och tallist ellege	ND ND				
Total Composite Values of Fibrous Com Cellulose (Trace)	iponents:	Asbestos (ND)					
58803311126 Layer: Grey Non-Fibrous Material Layer: Paint	50637344		ND ND				
Total Composite Values of Fibrous Con Cellulose (Trace)	iponents;	Asbestos (ND)					

Client Name: EnviroQuest, Inc.					Report Numb Date Printed		
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311127	50637345						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311128	50637346						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311129	50637347						
Layer: Light Brown Tile	30037347		ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311130	50637348						
Laver: Beige Tile	30057510	Chrysotile	2 %				
Layer: Tan Mastic with Debris		Om ysome	ND				
Total Composite Values of Fibrous Cor	nnonante:	Asbestos (2%)					
Cellulose (Trace)	пропонъ.	Aspestos (270)					
58803311131	50637349	Marijan da kabababa da ja					
Layer: Beige Tile	30037349	Chrysotile	2 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
		กราชสาราชาร์ จัดจัดและสามารถสา	11ace				
Total Composite Values of Fibrous Cor	nponents:	Asbestos (2%)					
Cellulose (Trace)							
58803311132	50637350						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND	gar elegijatete geves e			
Total Composite Values of Fibrous Cor Cellulose (Trace)	nponents:	Asbestos (2%)					
58803311133	50637351				ng maganasan an an ana atau ang manaan ng Sangaraa	ere green) was ereby be engine agreen,	
Layer: Beige Tile	<del>-</del>		ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Cor	nponents:	Asbestos (ND)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.					Date Printed	/11	
Sample ID	Lab Numbe	Asbestos r Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311134	50637352						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents:	Asbestos (ND)					
58803311135	50637353						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents:	Asbestos (ND)					
58803311136	50637354						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents:	Asbestos (ND)					
58803311137	50637355			40 400 40 April 1 4 4 1 5 4			
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Co	omponents:	Asbestos (ND)					
Cellulose (Trace)							
58803311138	50637356						
Layer: Beige Tile			ND				
Layer: Black and Tan Mastic			ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents:	Asbestos (ND)					
58803311139	50637357						
Layer: Light Grey Semi-Fibrous Mate	rial	Chrysotile	7 %				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents:	Asbestos (7%)					
58803311140	50637358						::::::::::::::::::::::::::::::::::::::
Layer: Tan Non-Fibrous Material	3002,550		ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents;	Asbestos (ND)					
58803311141	50637359	4 د الهائد شیار تا نوشیه به نوستند . ه. -					أرسانا فليطيع والمهدان فيعددون
Layer: Tan Non-Fibrous Material	3 0 0 2 , 5 0 2		ND				
Total Composite Values of Fibrous Co Cellulose (Trace)	omponents;	Asbestos (ND)					

					Report Numb	er: B146	154
Client Name: EnviroQuest, Inc.					Date Printed:	03/14	/11
		Asbestos	Percent in	Asbestos	Percent in	Asbestos	Percent in
Sample ID	Lab Number	Type	Layer	Type	Layer	Type	Layer



Steven Takahashi, Laboratory Supervisor, Rancho Dominguez Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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9		_				
EnviroQuest		waian	apana	POI	PLM DATA	SHEET
Project No.: 5	Project Nar	me: STOTE	FOIRK			3/11
,		YBIN POIR	K Impri	OVEMENTS	Page:	of 23
Material Desc	cription: 12X12" C	WEXM TIVE W	Tay cruck	s tan ad	thesial y	Friable on-friable
Sample No		Loc	ation • or toly	reveling com	. % Asb. A	lsb. Type
5880331	na ki kan	Both	LOOM!			
	N3 1	KITC	HEN			
	J					
		•				
GOUDITION.		•		T-1-110		
	% Damaged: % facing Material	Localized:	% Distributed TSI % Gauge/Punct -	Total Material Qu	Misc.  ** % Crumbling	1.4
Damaged Good Cond.	% Delaminating - % H <sub>2</sub> O/Gouges -	Damaged Good Cond.	% Crushed	Damaged Good Cond.	% Delaminating % H <sub>2</sub> O/Gouge	
Contact Potential Vibration Potential	☐ Hig	h 📮	Moderate Moderate	Low		
Air Erosion OVERALL POTENTIA	· Hig	h 📮 nificant Damage 🔲	Moderate	Low Minimal Damage		
	12/1/12	tide mai	the while	rite Snicks	o tan	Friable
Material Desc Sample No		119111-9100	tion W	of the Space		on-friable sb. Type
58KO33		/ B	MOON	o care	76 ASD. A	isi. Type
0 08000	not ( ) Avola)	115/2	A WALL A	v Viteliau		
<b>├</b>	W CALON	N - 10	TOTAL VI	7 10.1000		
	<del>y</del> <del>y</del>			V		
·		-				
					-	
		Localized:	% Distributed:	Total Material Qu		
☐ Sig. Damage ☐ Damaged	facing Material % Crumbling - % Delaminating -	☐ Sig. Damage ☐ Damaged	"S Gouge/Punct % Crushed -	Sig. Damage Damaged	Misc. % Crumbling % Delaminating	
Good Cond.	% H₂O/Gouges -	Good Cond.	% H <sub>2</sub> O Stains - Moderate	Good Cond.	· % H₂O/Gouge:	
Vibration Potential Air Erosion	☐ Hig ☐ Hig ☐ Hig	h <b>D</b>	Moderate Moderate	Low		
OVERALL POTENTIAL		nificant Damage	Damage	☐ Mrimal Damage		
Sampled By:	) Songmon	Refly(quarter)	Date/Time:	Relinquishe	d By/Date/Time:	
DOH Cert No:	UIT	LINIA	IN IN	Della min	1 D. (Data Circa)	
Delivered to Lat	T. A. A.	de inquismed by/	Date/Time:	Reinquisne	d By/Date/Time:	
	1 44-14	I pic. So say	ma 3///11			
TURNAROUND	ΓΙΜΕ:	urs 24 Hours	3 Days	☐ 5 Days	<u> </u>	
	<1,000 ft <sup>2</sup> = 3 Samples		5,000 ft² = 5 Samples		= 7 Samples	
	Minimum of 3 Samples (R Minimum of 3 Samples (H		r ft² = 1 Sample	Minimum	of 3 Samples (Elbo	w & T')
	Sig. Damage = > 10% Dist. o		d = < 10% Dist. or 25% L	ocal Good = Ve	ry Limited Damage	
TSI	Sig. Damage = 10% Missing . > 10% Dist. o	r 25% Local	d = < 10% Missing Jacks < 10% Dist. or 25% L	ocal	ry Limited Damage	
Misc	Sig. Damage = > 10% Dist. o	zo% Local Damage	d = < 10% Dist. or 25% L	.000 = Ve	ry Limited Damage	

<b>9</b>		•				
EnviroQuest	W	alana	panal	Pa	PLM DA	TA SHEE
Project No.: 5880	Project Name:	TOTE P	KORK		Date: '	3/3/1
r roject no	CABIN	PORK 1	M.DE OI	EMENT	S Page:_	
Material Description: 2"		DETVIET	TIE	Elk. m	x h?	Eriable
Material Description: X	· la Cross s	Location	(2 LAY	FUE T	% Asb.	Asb. Type
58803311071				<u> </u>		
1 08 1 CA	BIN #3 /	ritchen	AYLO	····		
<u>v</u> 09 J	710 12 1	<u> </u>				
					<del> </del>	
					<u> </u>	
CONDITION: % Damaged: Surfacing Material	% Localized:	- % Distribu	ted	Total Material Qu	Misc.	<u> </u>
☐ Sig. Damage % Crumblin ☐ Damaged % Delaminatin	Good Cond.	54.0	louge/Punct - % Crushed - H <sub>2</sub> O Stains -	Sig. Damage  Damaged Good Cond.	% (	Crumbling - aminating - OXGouges-
Contact Potential Vibration Potential	D High C High	Moderate Moderate		Low Low		Orgonges-
Air Erosion OVERALL POTENTIAL RATING	D High D Significant Damage	D Moderate D Damage		Low Minimal Damage		
Material Description: CM	H SINK MO	KTIC			,	Friable
Sample No.	11 -11/2 110	Location			% Asb.	Non-friable Asb. Type
5880 3311 10 CAB	N #3 /	Undura	ink			
		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	·			· · · · · · · · · · · · · · · · · · ·
				<u> </u>		
CONDITION: % Damaged; Surfacing Material	% Localized:	% Distribut	ed:	Total Material Qua	intRy:	
☐ Sig. Damage % Crumbling ☐ Damaged % Delaminating	- Damaged	% G	ouge/Punct - % Crushed - H-O Stains -	☐ Sig. Damage ☐ Camaged ☐ Good Cond.	% C	rumbing - minating -
Good Cond % HyO/Gouges Contact Potential Vibration Potential	High Good Cond. High High	Licoderate Moderate Moderate	0		7,8%	O/Gouges-
Air Erosion OVERALL POTENTIAL RATING	High     Significant Damage	D Damage		.ow Minimal Damage		
Material Description:	un sealar	A				Friable
Sample No.		Location	. 1,		% Asb.	Asb. Type
5880331111 NO	OF - PT	he hen	etroit	Ou		
		1		•		
	· · · · · · · · · · · · · · · · · · ·					
			······································			<u> </u>
CONDITION: % Damaged:	% Localized:	% Distribut	ed:	Total Material Qua	niky:	
CONDITION: % Damaged:  Surfacing Material  Sig Damage % Coumbling  Damaged % Delamination	Sig. Damage	7\$/ % G	ouge/Punct -	Sig. Damage	Misc. % C	rumbling ·

UMANAMADA	DI M D A	TA 0//===
rea atom DODY	PLIVI DA	
Project Name,	Date:	3/3/1
		3_ of <u>23</u>
	grucks	Friable Non-friable
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	% Asb.	Asb. Type
) because a	-	
	-	····
naged: % Localized: % Oistribuled: Total Material Qua	ntity:	
Material TSI	Misc. % Cn	umbling -
# H <sub>O</sub> OGauges: Good Cond. Who Stains Good Cond.	\$ % H <sub>2</sub> O	Gouges-
- High - Moderate - Low		
10800 Down Child Me i late	Mark to	Friable
7		Non-friable Asb. Type
Hallway	(47.353)	7,007,17,60
4 CABIN # 8 / NOTHINGON		
January Continues		
	1	
aged: % Localized: % Distributed: Total Material Qua		
% Crumbing - Sg. Damage % Gouge/Punct - Sig. Damage % Delaminating - Damaged % Crushed - Damaged	% Cn % Delan	initing -
W HyOrGorges   Good Cond.	5 % H <sub>2</sub> O)	Gouges-
☐ High ☐ Accepte ☐ Low ☐ Significant Damage ☐ Minimat Damage		
		Eriable
on a "xa" tan tile blk. Mashe		Non-frighte
Location	% Asb.	Non-friable Asb. Type
Location	% Asb	
Location Location Location	% Asb	
Location	% Asb	
	Location   DE   MOLERO    Material   Society   Demaged   Monoger    M. Countries   Demaged   Molecular    M. Countries   Demaged   Molecular    M. Countries   Demaged   Molecular    M. Hollower   Demaged   Molecular    M. Hollower   Demaged   Molecular    M. Hollower   Demaged   Molecular    Molecular   D	Project Name: STOTTE PORK  CABIN PORK IMPROVEMENTS Page:  CABIN PORK IMPROVEMENTS Page:  CABIN PORK IMPROVEMENTS Page:  Location   Mr.   Drown Charles  Location   Mr.   Mouseon Charles  Location   Mr.   Mouseon Charles  Location   Mr.   Mouseon Charles  S. Caroling   S. Caroling

Job No. F55B642B

9	•	
EnviroQuest	walanapanapa	PLM DATA SHEET
Project No.: 5880 Project	t Name: STOTE PORK	Date: 3/3/11
C	ABIN POWK IMPROVE	MENTS Page: 4 of 23
Material Description: COMAY &	SINK Masic	Eriable Non-friable
Sample No. 5680.3311.21 (346)0 # 9	Location 3 - Unallisink Martic	% Asb. Asb, Type
SEASON OF CAMPIN 112	S Order Strike Treeship	
. '		
CONDITION: % Damaged: % Lo Surfacing Material	ocalized: - % Distributed:	Total Material Quantity:  Misc.
Sig. Damage % Coumbing - Damaged % Determinating - Good Cond. % H <sub>2</sub> O/Gouges -	☐ Sig. Damage	Sig, Damage
Contact Potential   High Vibration Potential   High Air Erosion   High	# Moderate   Low   Low	
OVERALL POTENTIAL RATING   Signification	ant Damage Damage Minis	nal Damage Fria <del>ldis</del>
Material Description: Sample No.	Location /	Friable Non-friable % Asb. Asb. Type
Sample No.	8 - Most pipe pen	atrahou
10		
GONDITION: Dis Damaged: % Le Sig. Damaged: % Crumbling - %	coalized: % Distributed:  TSI  Sto. Damiste	Total Material Quantity:  Misc.  Sig. Damage % Crumbing -
Demaged % Delaminating - % Hio/Gouges -	Good Cond. % H <sub>2</sub> O Stains - D	Sig. Damage   % Crumbing -
Contact Potential	☐ Moderate	mal Darriage
Material Description: Seala	mt	Friable Non-friable
Sample No.	Location Coccess	% Asb Asb. Type
[80331123 CABIN #	8- MOOF / COITUGE	NW I
	- lauf st	
CONDITION: % Damaged: % Lo	ocalized: % Distributed:	Total Material Quantity:
So Damage % Crumbling -	7SI	Misc. Sig. Damage > % Crumbling -

Job No. F55B642B

EnviroQuest		WOII	anapai	napa		PLM DA	TA SHEET
Project No.: 58	SD Project	Name: STO	TE POIR	K		Date:	3/3/11
	C	ABIN PO	RK IMP	POVER	NEUTS	Page:	5 of 23
Material Description	n: 12" 12" B	moun squi	ckled til	L: 61	c. Mac		Eriable -
Sample No.	<b>h</b>	J.C.	cation			% Asb.	Asb. Type
58603311 29	4 CABIN #	10 / hic	EMINI POR	Wild	ion		
20	CHOIN AT	No Du	Armon ou	MILO	AUTO		
		1 (44	<u>,,                                   </u>				<u> </u>
		· · · · · · · · · · · · · · · · · · ·			[.		
CONDITION: 10 Dams							
CONDITION: & Dama Surfacing M  G Sig. Damage Damaged	faterial % Crumbling	II Sig. Damage  II Damaged	% Distributed: TSI  % Googe/Punct % Crushed		Total Material Quantity: lig. Damage Damaged	Misc.	embling -
Good Cond. /	% H <sub>2</sub> O/Gouges - B High	Good Cond.	% H <sub>2</sub> O Steins -		iood Cond.	% H <sub>2</sub> O	Googes-
Vibration Potential  - Air Erosion  OVERALL POTENTIAL RATING	☐ High · ☐ High ☐ , Significant		Moderate D Moderate D Damage	☐ Low ☐ Low ☐ Minimal	Damage		
Material Descriptio	a'xa" to	intile w	/ waroon	· uli	ita Chi	105	Eriable Non-friable
Sample No.		Lo	tation , bic.	Mac	tic st	% Asb.	Asb. Type
58803311 27	Un man	10 /00	10 10				
28	ACKRIN #	10 / 211	NUMBER				
201	J	<del></del>	`				
·							
CONDITION: Surfacing M  Sig. Damage	aterial % Crumbling -	3 Sig. Damage .	% Distributed: TSI % Gouge/Punct •		Total Material Quantity:	Misc.	umbáng -
Darraged     Good Cond.  Contact Potential	% H₂O/Gouges - ☐ High	Damaged Good Cond,	% Crushed - % H <sub>2</sub> O Stains -		agneged ood Cond.	% Delar % H <sub>2</sub> O	ninating - Gouges-
Vibration Potential Air Erosion OVERALL POTENTIAL RATING	☐ High ☐ High ☐ Significant		Moderate  Damage	Low Low	Damage		
Material Description	/ AN AN	SINK MO	SIENC				Friable Non-Irlable
Sample No.	0.000		cation			% Asb	Asb. Type
5880331180	CARIN #	10 - U	ncornink	- wa	JC-		
		· · · · · · · · · · · · · · · · · · ·		***			
						<del>-</del>	
				***************************************			
CONDITION: % Dama; Surfacing M	aterial % Crumbling -	Sig. Damaga	% Distributed: TSI > % Gouge/Punct-		Total Malerial Quamky: ig. Damage	Misc.	ımbiling •
Damaged Good Cond. Contact Potential	% Detaminating	Damaged Good Cond.	% Crushed - % H <sub>2</sub> O Stains -		onaged ood Cond.	> % Defan	Gouges
Vibration Potential	D High		Moderate	D Low			

9			
EnviroQuest	walanapanapa	PLM DA	TA SHEET
Project No.: 588	O Project Name: STOTE PORK	Date:	3/3/11
	CABIN PORK IMPROVEMENTS	Page:_	6 of 23
Material Description:	Sealant		Friable
Sample No. (1980)	PABIN #10 - NOOF SEXM (CORNIGATED)	% Asb.	Asb, Type
280000110110	ARBIN #10 - MOOF SEXIM (CORMIGATED)		
CONDITION: D% Damaged:	% Localized: - % Distributed:   Total Material Quantity		
Sin Damana Surfacing Materi	of TS7 Sig. Damage	Misc.	numbling -
Damaged 99 D Good Cond. 99 Contact Potential Vibration Potential	CH_OGGeges	<u> </u>	D/Gouges-
- Air Erosico  OVERALL POTENTIAL RATING	D High D Moderate D Cow D Significant Damage D Parnage Minimal Damage		
Material Description:	Sealant	. '	Friable Non-friable
Sample No.	Location	% Asb.	Asb. Type
5860331132 (	existing #10 - 2 the renotion		
	Sidilany		
·			
CONDITION: 1 % Damaged:	% Localized: % Distributed; Total Material Quantity		
Surfacing Materi	St TSI Grundfing Damage SchurePrint District	Misc.	rumbing -
Good Cond. 9  Contact Potential	H <sub>2</sub> O/Gouges - Good Cond. 5 H <sub>2</sub> O Stains - Good Cond.		MGouges-
Vibration Potential Air Erosion OVERALL POTENTIAL RATING	High		
Material Description:		s bil	Erieble On-friable
Sample No.	Location glv Blk. Machi-	% Asb	Asb, Type
1 = Oca 40 11 40 1	1 1/ 1/2/14/79 /		
580331133	CARLI ALIS / POLYTON BY LATCHEN		
580531133	CABIN #12 / Sidvoom by taitching		
1 34	CABIN #12 / bedroom by laitaum		
1 34	CABIN #12 / Sudvoom by taitdown budvoom		
1 34	CABIN #12 / Sedvoom by taifdum  budroom		

9	•		
EnviroQuest	Walanapan	19P9 PLM DATA SHE	EET
Project No.: 58	80 Project Name: STOTE POICK	Date: 3/3/	11
<u> </u>	CABIN PORCK IMPR	DOVENEUTS Page: 7 of c	93
Material Descriptio	n: 12" X12" BROWN SPECKLED +	Muible. mastic Friation	
Sample No.	Location	% Asb. Asb. Ty	уре
1 37	YCABIN #12 / Hall wary		
<u>×</u> 31			
. '			
CONDITION: 5% Dama Surfacing M	latoriai TSI	Total Material Quantity:   Misc.   Crumbing -	
D Sig. Damage D Damaged D Good Cond. Contact Potential	% Delaminating Damaged % Crushed - % H <sub>2</sub> O/Gouges - D Good Cond. % H <sub>2</sub> O Stains -	D Camaged % Delaminating - Camaged % HyO/Gouges-	
Vibration Potential Air Erosion OVERALL POTENTIAL RATING	High	□ Low □ Low □ Minimal Damage	
Material Descriptio	any as law let it let no	Friabl	
Sample No.	Location	Non-fria % Asb. Asb. Ty	
5803311 39	1 CARLIN # 10 / STORAGE		
1 40	Y CABIN # 10 / STOTMERE	roplacement the	
- 41	O Decision (	reparenting (110)	
	•		
CONDITION: Y% Dama	ged: % Localized: % Distributed:	Total Material Quantity:	
Surfacing M  Sig. Damage  Damaged	Isterial	Misc.    Damage % Crumbing - Damaged % Delaminating -	
Good Cond. Contact Potential Vibration Potential	% H <sub>2</sub> O/Gauges         Good Cond.         % H <sub>2</sub> O Stains           High         Moderate           High         Moderate           Moderate         Moderate	Good Cond. % H <sub>2</sub> O/Gouges-	
AF Erosion  OVERALL POTENTIAL RATING	☐ Significant Damage ☐ Damage	D Low D Minimal Damage	
Material Description	n: 01/40" Brown Stuckled t	Ment Ok. Mashic Friable Mon-fria	Die
5880331142	Location	76 ASU. 1	/pe
1. 43	4 Cabin #12 / Bedrao	IM III	
44	1 leplacemo	unt the	
10			
CONDITION: , W% Dama Surfacing M	ged: % Localized: % Distributed: laterial TSI	Total Material Quantity:  Alisc.  Sin. Damace 55 Crumbling -	
Sic. Damage	% Grumbiling - Skg. Damage > % Gouge/Punct -	1 LL Joig, Darriage > % Crumpoints -	
Sig. Damage Damaged Good Cond. Contact Potential Vibration Potential		Good Cond.	

9			•				
EnviroQuest		WO	ianai	ana	pa	PLM DA	ATA SHEET
Project No.: 58	S() Proje	ct Name: STC	THE PO	JRK		Date:_	3/3/11
	(	LABIN DO	ARK II	MDROI	EMEL	Page:	8 of 23
Material Description	m. 9 401 +	an w/ man	OOM &		snick !	bly has	Friable
Sample No.			ocation		7,000	% Asb.	Asb: Type
5080331195	110000	N 1 . / 1.	-1				
1 44	14 CKBM.	# 12/8	100 VOO		1.		,
- 41	<u> </u>	. Ki	<u>spicacon</u>	cent t	NO.		
	<u> </u>		1				
-							
CONDITION: \$ Dama   Surfacing A	oged: % Naterial	Localized:	% Distributed TSI	<u> </u>	Total Materia	l Quantity: Misc.	
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H-O/Gouges -	Sig. Oamage  Distribution  Sig. Oamage  Good Cond.	> % Got	ge/Punct - Crushed - O Stains -	Damaged Good Cond.	% De	Crumbling - laminating - -O/Gouges-
Contact Potential Vibration Potential Air Eroston	☐ High ☐ High	7 2 000 0000	☐ Moderate ☐ Moderate		LOW		
OVERALL POTENTIAL RATING	🗇, Signi	Icant Damage	Damage Damage		Low Minimal Damage		
Material Descriptio	n: 9"40"	tan al	white 9	redu.	blk	. machi	Friable Non-friable
Sample No.	1	<u> </u>	ocation			% Asb.	Asb. Type
580381148	YCKBIU	#12/	b. dr	OOW			
10	Chion	47 100 /	Nedou	OM on	F 5/6		ļ
0	<del>                                     </del>	<del></del>	icopie ic	Zin pri	1 1110		<u></u>
	<del> </del>				***************************************		
CONDITION: Dama Surfacing M	laterial	Localized:	% Distributed TSI		Total Materia	Misc.	
Sig. Damage     Damaged     Good Cond.	% Crumbling - % Delaminating - % H <sub>2</sub> O/Gouges -	☐ Sig: Damage . ☐ Damaged ☐ Good Cond.	> %	ge/Punct - Crushed - O Stains -	Darnaged Good Cond.	.S. % Del	Crumbling - laminating - -O/Gouges-
Contact Potential Vibration Potential Air Erosion	O High O High O High		Moderate Moderate Moderate		Low Low		
OVERALL POTENTIAL RAYING	O Signif	icant Damage	Damage		Minimal Damage		Eriable
Material Descriptio Sample No.	n: Suni	MH (	alver \	ainte	α)	% Asb,	Asb. Type
5880 3311 51	CABIN	110-	1000+	/ Dì	Pt.	70 ASD	Asu. Type
324000	0.1010	71 100	1	ne	ichatta	u	
CONDITION: // % Dame	nertr	Localized:	% Distributed		Total Material	Outube	
Surfacing M	faterial % Grumbling +	CJ Sig. Damage	TSI % Gou	ge/Punct -	□ Sig, Damage	Misc.	Crumbing -
Damaged Good Cond. Contact Potential	% Delaminating - % H;O/Gouges -	Damaged Good Cond.	Moderate % H;	Crushed - O Stains -	Good Cond.	\$ 0el % H <sub>2</sub>	ordinating - OrGouges-
Vibration Potential Air Erosion	D High		☐ Moderate ☐ Moderate		LOW		

Project No.: 5880 Project Name: STOTTE PORK  CABIN PORK IMPROVEMENT Page: 91 of & STOTE PORK  Material Description: SEAUNT (PAK, TAR)  Sample No. Location % Asb. ASD. Type  CONDITION: Standard: % Localized: % Distributed: Total Material Quantity:  Suiteding Material  Sign. Damage		•				
Project Name: STOTE PORK  CABIN PORK IMPROVEMENTS  Page: 9 of & CABIN PORK IMPROVEMENTS  Sample No.  Location STAIN  Sample No.  Location STAIN  Sometimes of Comments  Sometimes of Co	EnviroQuest	WOILOW	aranal	Pa	PLM DA	TA SHEE
Material Description: STAMIT (PAK. TAN) Sample No.    Sample No.   Location   Staming   Staming	roject No 5880 Proj					
Anterial Description: SEMANT (PAK.+TAP) Sample No. Location % Asb. 7957 Type  200 83 1 5 a CABIN # 13 - MOOF SEMAN  Semantic Sema	110	CABIN DOWX	IMDEDI	EMENT	Page:	2 40
Sample No.  Sample	Actorial Deceriation: SEMA	ATT PAV -	TX0.)			Friable
SOUTHOR STATES  SOUTHOR STATES		Locatio	1710		% Asb.	
Sp. Danager   St. Continue   St. C		+12- MOF	SEAM			
ONDITION: W. Danages: W. Londone: W. Londo						
DIDITION						
DIDITION	~					
SOUTON: W. Densyste: S. Codesice: S. Charlonge: S. Codesice: S. Charlonge: S. Codesice: S. Charlonge: S. Charlonge						
SOUTON: W. Densyste: S. Codesice: S. Charlonge: S. Codesice: S. Charlonge: S. Codesice: S. Charlonge: S. Charlonge						
Sp. Damager   Sp. Commission   Sp. Damager   Sp. Damager   Sp. Damager   Sp. Commission						
Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   Good Cook   W. H.COCKUNGS   W. H.COC	Surfacing Material	TSI		I	Misc.	nmbling -
Description: SY SO Brooks   1900   19	Good Cond. / % H <sub>2</sub> O/Gouges -	☐ Good Cond. /	% H <sub>2</sub> O Stains -	D Damaged Cl Good Cond.	∴ % Dela	minating •
Sample No.  Sample	bration Potential II His r Erosion II His	ph II Mode ph II Mode	erate 2	Low Low		
Sample No.    CASIN +   CA	1 - 1/- 11		**************************************	Minimal Damage	Jali .	Friable
DISTRICTION DESCRIPTION:  DESC	laterial Description: 10-116-		Material Control	Stucks.	Olc .	Non-frieble
DIGITION: We Danaget		Locatio	n ' 1166811	er carein	% Asb.	Asb. Type
ONDITION:	2002 - 1 - 1	1 1 / 1040	WW PAR	Library		
Sig. Damage	1 Sald Cherk	71 11 / 1000	ACCOUNT DAY	MIME		
Sig. Damage   Sig. Damaged   Sig. D	<u> </u>	1 00	NOOM V			.,
Sig. Damage						
Sig. Damage						
Sig. Damage   Sig. Damaged   Sig. D						
Sig. Damage   Sig. Damaged   Sig. D	OVDITION: The Demands	N. Varrage and S. V.	Dictional	Tatel Madadal Ouere	t.e	
Good Cond.   N. H.O. Googees   Good Cond.   N. H.O. Sains   M.	Sig. Damage % Crumbling -	☐ Sig. Damage . S	% Gouge/Punct -	ධ ුන් Damage	Misc. % Cr	umbling -
Internal Polential   Hon   Moderate   Low   Frighter   Control   C	Good Cond. % H:O/Gouges -	☐ Good Cond.	% H-O Stains -	D Good Cond.	% Delai	rinaling - /Gouges-
Asb. Type  Sample No. Location % Asb. Asb. Type  Supplementary of the Company of	bration Potential D Hig	h Mode	erate	Low		
Sample No.   Location   % Asb.   Asb.   Type			1 <	Minimal Damage		F4
DIDITION: 5 % Dampad: % Localized: % Distributed: Total Material Quantary:  Supplicing Material  Supplicing Materi	daterial Description.	c Sink Mas	ナン			
DIDITION: 5% Demaged: % Localized: % Distributed: Total Material Quantity:  Supplier Mercinal Supplier Surfacing Mercinal Supplier Surfacing Mercinal Supplier Surfacing Mercinal Supplier Surfacing Mercinal Supplier Supp	Sample No.	X X			% Asb.	Asb. Type
Sufficing Material   Misc.   Sig. Damage   159   Misc.   Sig. Chamage   150   Misc.   150   Misc.   Sig. Chamage   150   Misc.   Sig. Chamage   150   Misc.   150	1880 3311 -6 CABIL	<u>) 井し ~ U</u>	MOVENCINIO			
Suffacing Meterial   Sig. Damage   Sig. Damaged   Sig. Dama		W	vasic			
Supplier   Supplier   Structure   Struct						
Sufficing Material   Misc.   Sig. Damage   159   Misc.   Sig. Chamage   150   Misc.   150   Misc.   Sig. Chamage   150   Misc.   Sig. Chamage   150   Misc.   150						
Surfacing Material   Misc.   Sig. Damage   159   Misc.   Sig. Damage   150   Misc.						
Suntage   Surfacing Material   Sig. Damage   Sig. Damaged   Sig. Damage						
Surface   Surf						
Sig Damage			Distributed:	Total Material Quant		
Good Cond. ) % H <sub>2</sub> O/Gouges - D Good Cond. ) % H <sub>2</sub> O Stains - D Good Cond. ) % H <sub>2</sub> O/Gouges	Sig. Damage % Crumbling	☐ Sig. Damage >	% Gouge/Punct -	EJ Damaned	) % Cr	umbling -
	Good Cond. ) % H <sub>2</sub> O/Gouges -	I □ Good Cond. > →	% H <sub>2</sub> O Stains -	Good Cond.	5 % H <sub>C</sub>	Gouges-

9			•				
EnviroQuest		W	MONOIR	anapa	λ	PLM DA	TA SHEET
Project No.: 58	SO Projec	t Name: ST		NRK		Date:	3/3/11
	C	ABIN P	OVEK IN	APR OVE	MENT	Page:_	10 of 23
Material Description	0,000						Friable Non-friate
Sample No.	01- II		Location		15.	% Asb.	Asb. Type
5280331157	CUBIN #	11-1200	TY	4 pener	ration	4	
			1	coblan	t		
						-	
						<del> </del>	
						ļ	
CONDITION: DA Damas	ped: %1	ocalized:	% Distributed:		Total Material Qua		
Sig. Damage  Damaged Good Cond.	% Crumbling	Sig. Damage Demaged	2 %0	e/Punct - Crushed -	dig, Damage Damaged Good Cond,	> % Del	Crumbling -
Contact Potential Vibration Potential	% H <sub>2</sub> O/Gouges - U High U High U High	☐ Good Cond.	☐ Moderate ☐ Moderate	Low Low	Good Cond.	·/ %H;	O/Gouges-
- Air Erosion OVERALL POTENTIAL RATING	□ High □ Signific	ant Damage	☐ Moderate ☐ Damage	Low Low Minin	nal Damage		
Material Description	: scala	FN -			***************************************		Friable Non-friable
Sample No.	O No 14 II		Location		- 1 <u> </u>	% Asb.	Asb. Type
A803211 18	CHISIN #	11- Do	01 = CX	ollo of	treo		
	ļ		1,19007	Sov	im		
	·						
	· · · · · · · · · · · · · · · · · · ·						
CONDITION: Damag	ed: % L	ocalized:	% Distributed:		Total Material Qua		
Sig. Damage	% Crembing - % Delaminating -	D Sig. Damage D Damaged Good Cond.	\$ %c	e/Punct- Ci crushed - D	og, Damage Damaged	S % Det	Crumbing
Contact Potential Vibration Potential	% H <sub>i</sub> O/Gouges -	Good Cend.	☐ Moderate ☐ Moderate	Stains D Low	Good Cond.	% H <sub>2</sub>	O/Gouges-
AI Erosion OVERALL POTENTIAL RATING	☐ High	ani Damage	Moderate Damage	RS Low	al Damage		
Material Description	13X13 C	WHAM W/	tan spea	XE AIL	· blk.	mark	Friable Nor-friable
Sample No.			Location			% Asb	Asb, Type
18803311 (9	YCABIN #	A /	utaun	he lit	duri	-	
1 90	CHOIN H	-4	December 1	by Wit	curio .		
- 01	7		UCCUUCH				
						<del> </del>	
						<del> </del>	
*							
CONDITION: Surfacing Mi	aterial	ocalized:	% Distributed: TSI		Total Material Quar	Misc.	
Sig. Damage     Damaged     Good Cond.	% Crumbling - % Delaminating - % H <sub>2</sub> O/Googes -	Sig. Damage Damaged Good Cond.	3 % Goug	e/Pund - Enshed - Ens	Sig. Damage Damaged Good Cond.	% C	crumbling - aminating - CAGouges
Contact Potential Vibration Potential	+ D High	_ Growthia.	D Moderate D Moderate	Cow Cow		***************************************	

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EnviroQuest	4	W	MONO	progr	pa	PLM DA	TA SHEET
Project No.: 589	S() Projec	t Name: ST		POIRK		Date:	3/3/11
		ABIN D	CNEK	IMPRO	VENIENT		11 of 23
Material Description	1: Q'40" +	pan tile i	blk	maisk			Friable
Sample No.		- 11 /1/4	Location	10 10		% Asb.	Asb. Type
188033162			<b>Δ</b> Δ				
1. (03	Y CKBIU	49- E	SPORM	et			
<u> </u>	7						
CONDITION: % Damag Surfacing Ma	sterial .	ocalized:	% Distr		Total Material Qua	Misc.	
Sig. Damage Damaged Good Cond.	% Crumbling - % Delaminating - % H <sub>2</sub> O/Gouges -	Sig. Domage  Damaged Good Cond.		% Crushed - % Crushed - % H <sub>2</sub> O Stains -	Damage Good Cond.	₹ Dela	Countring - aminating - O/Gouges-
Contact Potential Vibration Potential - Air Erosion	D High D High D High		Moderate Moderate	0	Low		
OVERALL POTENTIAL RATING	□ : Signific	ant Damage	Damage		Low Minimal Damage		
Material Description	· COURY S	ZIMK MO	STK				Friable Non-friable
Sample No.			Location	<b>\</b>		% Asb.	Asb. Type
58803311 US	OKBIN #	9- 0	ndus	145 mg	xetic		
	·						
CONDITION: % Damag Surfacing Ma	terial	ocalized:	% Dist YSJ		Total Material Qua	Misc.	
☐ Sig. Damage ☐ Damaged ☐ Good Cand.	% Crumbling - % Delaminating - % HsO/Gouges -	Sig. Damage     Camaged     Good Cond.	· {	% Gouge/Punct - % Crushed - % H <sub>2</sub> O Stains -	Sig. Damage  Gamaged Good Cond.	5 % Dela	Crumbing - anihating - O/Gouges-
Contact Potential Vibration Potential	☐ High ☐ High ☐ High		Moderate Moderate	8	Low		
Air Ercsion OVERALL POTENTIAL RATING		ent Damage	☐ Moderate ☐ Damage		Low Minimal Damage		
Material Description	: Sealant						Friable Non-friable
Sample No.			Location	4'		% Asb	Asb. Type
2880331 M	CABIN #	9- 1he	<del>)0</del> †	Dilo D	eletration	m	
			7	, , ,			
	:						
CONDITION; A Damag	terial	ocalized:	% Distr		Total Material Quar	Misc.	
☐ Sig. Damage	% Crumbling - % Delaminating - % HyO/Gouges -	D Sig. Damage Damaged Good Cond;	}	Gouge/Punct - % Crushed - % H <sub>2</sub> O Stains -	D Sig. Damage Damaged Good Cond.	> % Deta	rumbing - eminating - DAGouges-
Contact Potential Vibration Potential	☐ High		☐ Moderate	. 07	Low		

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EnviroQuest	walanapanapa	PLM DA	TA SHEET
Project No.: 58	80 Project Name: STOTE PORK	Date: \	3/3/11
10,000	CABIN PORK IMPROVEMENTS	Page:	12 of 25
Material Descriptio	0.50.1		Friable
Sample No.	Location	% Asb.	Asb. Type
WXO3311 W7			
	Corrupated		
	J .		
	,		
11)			
CONDITION: W % Damage Surfacing M	Sterial TSI Generation - D Sin Damage / % Generation - D Sin Damage	Misc.	rumbling -
Damaged Cond.	% Delaminating - □ Damaged	≥ % Delai	minating - MGouges-
Contact Potential Vibration Potential Air Erosion	☐ High ☐ Moderate ☑ Low ☐ High ☐ Moderate ☑ Low		
OVERALL POTENTIAL RATING	Significant Damage	1	F-in-Line
Material Description	1: 12" X12" brown Guckled till oblk. M	aunc	Friable Non-friable
Sample No. 58803311 08	Location 2 lawers	% Asb.	Asb. Type
28803311 A8	4CMSIN #7 / Kitchen		
1 12	This is a faith howard		<del></del>
ンフ	Distriction Officers		
			***************************************
CONDITION: % Damag	ad: % Localized: % Distributed: Total Material Quenchy		
Surfacing Ma	% Crumbing - D Sig. Damage	S % Delar	rumbling -
Contact Potential Vibration Potential			/Gouges-
Air Erosion OVERALL POYENTIAL RATING	Significant Damage Ci Damage Ei Minimal Damage	1,	
Material Description	12x12 tan w/ brown white Suck		Friable Non-friable
Sample No.	Location Die Maine	% Asb.	Asb. Type
28803311 -FI	bichroom		
12	YCHBIN#+ / Hallinory		
13	1 DOHN Y DON		
CONDITION: % Camao	ed: % Localizad: % Distoluted: Total Material Quantity	·	
Confacing Ma	sterial TS/ % Combing - □ Sie Damsee % Gouce/Pund - □ ≼o Damace	Misc.	umbiing -
Sig. Damage     Demaged     Good Cond.	% Delaminating - Damaged % Crushed & Damaged % HyO Steins - D Good Cond.	\$ Defan	ninating - /Gouges-

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EnviroQuest	walanapanapa	PLM DA	TA SHEET
Project No.: 58	80 Project Name: STOTE PORK	Date: 1	3/3/11
•	CABIN POJEK IMPROVEMENTS	Page:_	3 of 23
Material Description	n: 9"x0" tan tile: blk. masne		Friable Yon-friable
Sample No. <b>\$203311 74</b>	Location	% Asb.	Asb. Type
1 30	YCHOIN # 7 /CPOPERCOE		
业和			,
·			
ļ			
CONDITION: % Damas	ed; % Localized; % Distributed;   Total Material Quantity Herial TSI	: Misc.	
☐ Sig. Damage . ☐ Damaged . ☐ Good Cond.	% Crumbling	\$ % C	rumbling - eminating - D/Gouges-
Contact Potential Vibration Potential Ak Fresion	High   Moderate   Low		
OVERALL POTENTIAL RATING	□ Skonificant Damage □ Min/mail Damage		Friable
Material Description Sample No.	1: White cink washed	% Asb.	Non-friable Asb. Type
5803311 77	CABIN #7 - UNDERSINE MORTIC	707130.	7 db. Type
		<del></del>	
-			
GONDITION: % Damage Surfacing Ma	ed: % Localized: % Distributed:   Total Material Quantity:  **Total State   Total Material Quantity:  **Total State   Total Material Quantity:  **Countibling   Sig. Damage   % GougerPunct   Sig. Damage	Misc.	rumbling -
Damaged     Good Cond.  Contact Petential	% Delaminating - Damaged % Crushed - Damaged % HyOKSouges - D Good Cond. % HyO Stales - D Good Cond.	\$ Dela % H <sub>2</sub> C	minating - MGouges-
Vibration Polential Alt Erosion OVERALL POYENTIAL RATING	Figh		
Material Description	Chalant		Friable
Sample No.	Location	% Asb	Asb. Type
1220331178	eably #7 - Doof sing fenemation		
	Signown		
CONDITION: Damage	nd: % Localized: % Distributed: Total Material Quantity:		
Surfacing Ma	terial TSI	Misc.	amblas -

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EnviroQuest	walanapanapa	PLM DATA SHEET
Project No.: 588	O Project Name: STOTE PORK	Date: 3/3/11
	CABIN POWER IMPROVEMENTS	Page: 14 of 23
Material Description:	Sealant	Friable Non-friable
Sample No.	Location	% Asb. Asb. Type
38033179 (	Sabin # + - 1200f Cornopatia Star	K.
	<u> </u>	
CONDITION: Da Damagod:  Striacing Materi  Sig. Damage	% Crumbling - II Sig. Damage / % Gount/Punct - II Sig. Damage	y:  Misc.  Sumbling -
☐ Damaged > %	4 Delaminating - Demaged % Crushed - Good Cond. % HyO Stains - D Good Cond Good Cond	% Delaminating - % H <sub>2</sub> C/Gouges-
Vibration Potential Air Erosion OVERALL POTENTIAL RATING	High	
		astic Erieble
Material Description: Sample No.	Location Location	% Asb. Asb. Type
JE80331 80 1		
1. 81	y CABID #4 / Bottellin	
2 82	J , ,	
	•	
CONDITION: % Damaged:	% Localized: % Distributed: Total Material Quantity	
☐ Sig. Damage Surfacing Materi. ☐ Damaged % ☐ Good Cond. 9	% Crumbling - Damage % Gouge/Punct - Dy Sig. Damage Delaminating - Damaged % Crushed Damaged	Misc. % Crumbling - % Detaminating -
Contact Potential Vibration Potential	High D Moderate D Low	\$ % H-O/Gouges-
Air Erosion OVERALL POTENTIAL RATING	1991   Moderate   Low   Significant Damage   Demage   Minimal Damage	
Material Description:	Parkby your of promit there; plk wor	OII-IIIa0IB
Sample No. 540 331 83	Location	% Asb Asb. Type
84	1 CABIN #4 / both room	
84 /	1 Estaun Medacement &	
		·
CONDITION: % Damaged:	% Localized: % Distributed: Total Material Quantity:	
Strateing Materia  Sig. Damage	a) TSI % Crumbing - D Sig. Damage > % Gouge/Funct - D Sig. Damage	Affice. > % Crumbling -
Damaged % Good Cond. % Contact Potential	Delaminating	% Delaminating - % HrO/Gouges-

		•				
EnviroQuest		WOTON	napana	pa	PLM DATA S	HEET
Project No.: 58	SO Project	ot Name: STOTE	POIRK		Date: 3/3	3/11
110,000 110	-U Mije	LABIN DONLY	IM.DED	VEMENTS	Page: LC o	
Antonial Description	Tayrin I	W AND THE		Navoon S		riable
Material Description Sample No.	3n: W > 100 1	Ideate		washe.		friable. Type
18603311 86		1 90		by leitche	~	
1 87	1 CABIN	#4/H	allway	0		,
ñ 88		16	advoor			
	<u>.</u>					
	<u> </u>					
CONDITION: % Oams	l cod	and the state	4 Distributed:	Total Material Owner,		
Sürfacing h	Material % Crumbling -	TSI	% Gouge/Punct - % Crushed -	Total Material Quantity  Sig. Damage Damaged	Affisc. % Crumbling -	
Damaged Good Cond. Contact Potential	% Delaminating - % H-O/Gouges -	Sig. Damage Damaged Good Cond.	% H <sub>2</sub> O Stains -	☐ Good Cond.	% Detaminating - % H <sub>2</sub> O/Gouges-	
Vibration Potential Air Eraston OVERALL POTENTIAL RATING	☐ High ☐ High	Modern Damage Dam	femile Cl	Low Low Low Minimal Damage		
· · · · · · · · · · · · · · · · · · ·	Can A. I			Remarka Daniege	Fr	iable
Material Description Sample No.	n: Cellary	SINK MOST	~		Non	-filable . Type
15808311 80	MARW	#4- Und		maithe	78 ASO. ASO	. туре
4.000	Chor	11-1	<u> </u>			
	1	*				
	,					
4						
CONDITION: 34 Dama Surfacing N	ged: % Li faterial % Crumbling -	onsitted: 5  II Sig. Darnage	Distributed:	Total Material Quantity  Sig. Damage	Misc. % Crumbling -	
Damaged Social Good Cond.	% Delaminating - % H <sub>2</sub> O/Gouges -	Damaged Good Cond.	% Gauge/Punct - % Crushed - % H <sub>2</sub> O Stains -	Damaged Good Cond.	% Delaminating - % H <sub>2</sub> O/Gouges-	
Contact Potential Vibralion Potential Air Erosion	□ High □ High □ High	Modern Mo	erate 🗆	Low .		
OVERALL POTENTIAL RATING	Signific	ant Damage Dar	age []	Minimal Damage		iable
Material Descriptio Sample No.	n: Suchici	<b>N†</b> Locatio	.n		-2Hou	Type
JE80 3311010	CARILLA	rd - DIN		tion Sec	Mant	Туре
-30011 10	CITOTO 4		100.001			
						-
			— <u>————————————————————————————————————</u>			
			***************************************			
CONDITION: , % Dame			Direction and the second			
☐ Sig. Damage	geti: % Le faterial % Crumbling -	Sig. Damage	Distributed:  % Googe/Punct	Total Material Quantity	Mise.	

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EnviroQuest	walanapanapa	PLM DATA SHEET
Project No.: 59		Date: 3/3/11
. 10,000 110	CABIN PORK IMPROVEMENTS	Page: 10 of 23
Material Description		Erieble
Sample No.	Location	% Asb. Asb. Type
580331191	CABIN # 4- Noof Scam	
	J	,
		,
	ļ.	
CONDITION: % Dam	aged: % Localized: - % Distributed: Total Material Quently:	
Surfacing :	% Crumbling - ☐ Sig. Damage	Misc. % Crambing - % Delaminating -
Good Cond.  Contact Potential  Vibration Potential	% H <sub>2</sub> O/Gouges Good Cond. Sh H <sub>2</sub> O Stains Good C	% H <sub>2</sub> O/Gouges-
Air Erosion OVERALL POTENTIAL RATING	High   Description   Notice   Description	
Material Description	on: 12"X10" Drown saudded the blk. N	Mache Friable
Sample No.	Location	% Asb. Asb. Type
1860 3311 92	Daniel Marchaeller Anna	
1 93	CARBID # C / KHOWN CLYCO	
<u> </u>	1	
•		
CONDITION: % Dame	ogod: % Localized: % Distributed: Total Material Guanthy.	
Surfacing I	% Crumbing - Sig. Damage . % Gouge/Punct - Damage . % Crushed . Damaged	Misc. % Crumbling - % Defaminating -
Contact Potential Vibration Potential	H <sub>2</sub> O/Gouges	% H <sub>2</sub> O/Gouges-
Air Erosion OVERALL POTENTIAL RATING	☐ Significan Damage ☐ Damage ☐ Minimal Damage	
Material Description	on: 12 x 12 light group tile w/ brown ma	Friable Son-friable
Sample No.	Location	% Asb Asb. Type
1000887	1 CKBIN # Z   Bidroom.	
V 90	Hallway	
<u> </u>	0 1 0,000	
· · · · · · · · · · · · · · · · · · ·		
CONDITION: - % Dama Surfacing A	faterial TSI	Misc.
☐ Skg. Damage ☐ Damaged ☐ Good Cond.		% Crumbling - % Delaminating - % H <sub>2</sub> O/Gouges-
Contact Potential  Vibration Potential	** H/O/sourges   1 Good Cond.   7 H/O stains   1 Good Cond.   7   Good Con	as choranges.

<b>©</b>	•		
EnviroQuest .	walanapanapa	PLM DA	TA SHEE
Project No.: 52		Date:_\	3/3/1
	CABIN PORK IMPROVEMENTS	Page:	
Material Descripti	10/6/10/10/09/200 1/10: 02:16( 3 /0).	mask	Friable
Sample No.	Location	% Asb.	Asb. Type
1003811 98	I A MA ILL II - O all and I		
J OK	1 CHOW #2 - Bathroom		
<u> </u>	) (		
			<del></del>
CONDITION: % Darr		ity: Misc.	
Sig. Damage Damaged Good Cond.	% Crumbing -   Sig. Damaged   % GougePunct -   Sig. Damaged   % Crushed -   Damaged   % Crushed -   Damaged   % H-O/Gouges -   Good Cond.   % H-O/States -   Good Cond.	% C % Deta	rumbling - minating - MGouges-
Centact Potential Vibration Potential Air Erosion	☐ High         ☐ Moderate         ☐ Low           ☐ High         ☐ Moderate         ☐ Low           ☐ High         ☐ Moderate         ☐ Low		
OVERALL POTENTIAL RATING	U_Significant Damage		
Material Description	on: Cellary maistic	• •	Friable Non-friable
Sample No.	Location Location Mas NC	% Asb.	Asb. Type
18803811 101	CHIBIN # 1 - VICCUSINE "WISH		
CONDITION: / % Oam Surfacing	Material TSI	Misc.	rumbling -
Damaged Good Cond. Contact Potential	\$ Counting   Sig. Damage   GooglePunt   Sig. Damage   Counting   Damage   Sig. Damage   Sig. Counting   Damage   Sig. Counting   Sig. Damage   Sig. Counting   Sig. Damage   Sig. Counting   S		minating - VGouges-
Vibration Potential  Air Erosion  OVERALL POTENTIAL RATING	High   Moderate   Low		
	100,410 / Regula Sheetel Alle Long	MaxTI	Friable
Material Description Sample No.	Location	% Asb	Asb. Type
788038N 108			
1. 10	4 CABINAG - Kitalien		,
<u>v</u> 100	J		
		•	
CONDITION: % Dam	ged: % Localized: % Distributed: Total Majorial Quanti	у:	
Sig. Damage Surfacing )  Damaged	% Crumbling -	5 % Delai	umbëng -
Good Cond.  Contact Potential  Vibration Potential	% H <sub>2</sub> O(Gouper -   Good Cond.   % H <sub>2</sub> O Stales -   Good Cond.           Geod Cond.   Cond.             -   H <sub>2</sub> Dh         By Moderate   Low           -   H <sub>2</sub> Dh         By Moderate   Low	> %H <sub>1</sub> 0	/Gouges-

9	•		
EnviroQuest .	walanapanapa	PLM DA	TA SHEET
Project No.: 58	80 Project Name: STOTE PORK	Date:	3/3/11
	CABIN PONEX IMPROVEMENTS		8 of 23
Material Description	10 Across 12 Alcarroll Bl. 10 10 10 00 00		Friable Non-friatus
Sample No.	Location	% Asb.	Asb. Type
58803311 105	LAND LECT NO DOWN LAND OF		
1 100	CABIN #6 - BIDIVOOMS/ STORAGE		
2 10-	y Halfword		
	V V		
. 1.			
CONDITION: % Dama Shrincing It	god: % Localized: - % Distributed:   Total Malerial Quarek	y: Misc.	
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	M Crumbling	% Ci % Delay	umbing -
Contact Potential Vibration Potential	☐ High         ☐ Moderate         ☐ Low           ☐ High         ☐ Moderate         ☐ Low	7 3 H;C	/Gouges-
Air Erosion OVERALL POTENTIAL RAYING	High		· · · · · · · · · · · · · · · · · · ·
Material Description	12 X12" COEXM W/ fan specks blk	. Mail	Friable Non-friable
Sample No.	Location	% Asb.	Asb. Type
( 880931165	to the last the standard the		
109	4 CHBIN # U - BOHWOOM		
110	<u> </u>		
CONDITION: Surfacing M	pod: % Localized: % Distributed: Total Material Guante aterial TSI	Nisc.	
Sig, Damage     Damaged     Good Cond.	Schemberg   Sig. Damage   Si	% Cn % Defar	umbling - ninating - KGouges-
Contact Potential Vibration Potential	☐ High ☐ Addersto ☐ Low ☐ High ☐ Yedersta ☐ Low ☐	7 79 190	Googes-
AIR Erosion OVERALL POTENTIAL RATING	High   Moderate   Low     Significant Damage   Damage   Minimal Damage		
Material Descriptio	n conay mache		Friable Non-friable
Sample No.	CABIU #(0 - Undersing massic	% Asb	Asb. Type
700000 III	Chibio ar 6 - Ordering medic		
	,		
CONDITION: A Dama Surfacing M	atorial TSI	Misc.	
Sig. Damage     Damaged     Good Cond.	% Chumbéirg         III 5) Burnage         % Goupt/Punct         III 5) Burnage           % Déamnailing         III Demaged         % Crushed         III Demaged           % HOROuges         III Good Cond.         % Hy Stains         III Good Cond.	% Cn	imbling - sinating - Gouges-
Contact Potential	·		

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EnviroQuest		WOION	apanal	pa	PLM DA	ATA SHEET
Project No.: 52	Project Name		POIRK		Date:	3/3/11
	CABI	N PORK	IMPRO	<b>JEM ENTS</b>	Page:_	10 of 23
Material Description	on: BYL2" light	groun Me	W/White	marcon	1 speck	S Eriable
Samplé No.	<u>,                                     </u>	Location	12 brown	n massic	% Asb.	Asb. Type
1 119		/ kitche	V:			<del></del>
<u>V</u> 110	J "					
<del>ــــــــــــــــــــــــــــــــــــ</del>						
CONDITION: 3% Dam Surfacing	Material	TSI	Rribuled:	Total Material Quant	Misc.	
Sig. Damage Damaged Good Cond. Contact Potential	% Crumbling - Big. D % Delaminating - D Dama % H <sub>2</sub> O/Gouges - Good	ged. ≥	% Gouge/Punct - % Crushed - % H <sub>2</sub> O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	/ % Del.	Crumbling - aminating - OXSouges-
Vibration Potential Air Erosion OVERALL POTENTIAL RATING	☐ High ☐ High ☐ High ☐ Significant Damage	Modera  D Modera  D zmage		Low Low Low Minimal Damage		
	10/4/01/005W	1 Klo W/ J	an chic	as brown	N	Friable
Material Description Sample No.	m. 6 1-6 Sw4711	Location	Joe	thecim	% Asb.	Asb. Type
18803811 112	Le Company le 1	/ Halling	3(10)			
117	4 CURSIN #1	HOHIW				
	•					
<u>.</u>		***************************************				
CONDITION: % Dame	aged: % Localized:	% Di	tributed;	Total Material Quant		
Surfacing i  Sig. Damage Damaged Good Cond.	Material  \$ Crumbling -	mage TSI	% Gouge/Funct - % Crushed - % H-O Stains -	Sig. Damage Damaged Geod Cond.	% Dela	Crumbling eminating O/Gouges-
Contact Potential Vibration Potential Air Erosion	G High	Moderat Moderat Moderat		Low Low	1 375	Monages-
OVERALL POTENTIAL RATING	☐ Significant Demage	D Damage		Minimal Damage		Frieble
Material Description Sample No.	ou: BXB DIONA	Location	2 am	Mercho	% Asb	Asb. Type
TEKO 3811 11		1	, 0			
1 10	14CABIN#1	1Bu	troom	<u> </u>		<b>_</b>
- BU	10					
		<u> </u>				
CONDITION: % Dams	aged: % Localized;	62 Dis	ributed;	Total Material Quanti		
Surfacing to	#aferial  % Crumbling - □ Sig. Da  % Delaminating - □ Damao	TSI	% Gouge/Punct - % Crushed -	☐ Sig-Damage ☐ Damaged	Misc.	numbing
Contact Potential Vibration Potential	% H₂O/Gouges - ☐ Good C ☐ High ☐ High	Cond. Moderal Moderal Myderal D Moderal	% H <sub>2</sub> O Stains -	Good Cond. Low	> % H <sub>2</sub> C	D/Gouges-
Air Erosion	☐ High	€ Anderati		Low		

9		•		
EnviroQuest		uaiana po	inapa	PLM DATA SHEET
Project No.: 58	80 Project Name:	STOTE POR	K .	Date: 3/3/1)
٠.,	CABIN	PORK IMI	DE ONEW ENT	Ş Page: <u><b>20</b></u> of <u><b>23</b></u>
Material Description	n: 12xk tan a		white speck	
Sample No.	1	Location DV	Mousper	% Asb. Asb. Type
122	CM310#1	30 muc	<del>1.1</del>	
103		- 10 01 100		
ŭ				
CONDITION: % Dama Surfacing M	ged: % Localized:	- % Distributed: 7SJ	Total Material Qua	aldy: Alise.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Coumbling - ☐ Sig. Damage % Detaminating - ☐ Damaged % H₂O/Gouges - ☐ Good Cond.	% Gouge/Pun % Crushe % H <sub>2</sub> O Stair	d - Damaged	% Grumbling - % Detaminating - % H <sub>2</sub> O/Goupes-
Contact Potential Vibration Potential , Air Erosion	☐ High ☐ High ☐ High	Moderate    Moderate   Moderate	D Low	
OVERALL POTENTIAL RATING	D. Significant Damage	□ Damäge	☐ Minimal Damage	. Friable
Material Description Sample No.	n: Maste / a	Location		% Asb. Asb. Type
JE803311 124	CABIN #1-	Kitchen	underink	707100. 7100. 1790
		΄, ', Ν	nounc	
	_			
CONDITION: La Damage Damage		% Distributed: TSI S Gouge/Pont	Total Material Qua	niky:  Misc.  S % Crumbing -
Damaged Good Cond. Contact Potential	% Delaminating - ☐ Damaged % H₂O/Gouges - ☐ Good Cond.	% Crushe % H <sub>2</sub> O Stain D Moderate D Moderate	d- □ Darfiaged	% Detaminating % H <sub>2</sub> O/Goupes-
Vibration Potential Ale Erosion OVERALL POTENTIAL RATING	☐ High ☐ High ☐ Significant Damage	Moderate Moderate Damage	Low . Low . Minimal Damage	
Material Description	Chaland			Friable Kon-friable
Sample No.	C Marie Circ	Location	ilas noc. La	% Asb. Asb. Type
1860831125	CHOIN # 1 -	1000	Many Jakatha	ina
	·		excent,	
, '	<del>, , , , , , , , , , , , , , , , , , , </del>			<u> </u>
CONDITION: Damer	ed: % Localized;	% Distributed:	Total Material Qua-	
Sig. Damage Damaged	### Sig. Damage  ## Delaminating - Damaged	TSI % Gouge/Punc % Crushe:	1- Dig, Damage	Misc. % Crumbling - % Delaminating -
Good Cond.  Contact Potential  Vibration Potential	% H <sub>1</sub> O/Gouges -	> % H <sub>2</sub> O Stain  ☐ Moderate  ☐ Moderate	LOW COW	% H <sub>2</sub> O/Gouges-
Air Erosion OVERALL POTENTIAL RATING	☐ High ☐ Significant Damage	☐ Moderate ☐ Damage	Low  Minimal Damage	

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EnviroQuest	·			apana	Pa	PLM DA	TA SHEET
Project No.: 58	80 Proje	ct Name; S	TOTE	POIRK		Date: \	3/3/11
•	(	CABIN	PORK	IMPRO	VEMENT	S Page:	21 of 23
Material Descriptio	( +0)0	M					Friable On-friable
Sample No.	NO 10 to	11-1-	Location	AAKOL	<u>. 4. 1 </u>	% Asb.	Asb, Type
1880331124	COUPL	平 1 -	moof	corre	preas.	ou	
							•
	<u> </u>					-	
11							
CONDITION: 5 Dama Surfacing M	ged: % faterial % Crumbling -	Localized:	- % D: TSI	stributed:	Total Material Qua	Misc.	
Sig. Damage Damaged Good Cond.	% Delaminating - % HyO/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	<u> </u>	% Gouge/Punct • % Crushed • % H <sub>2</sub> O Stains •	D Sig. Damage Damaged Good Cond.	≥ % Dela	nimbling - minating - VGouges-
Contact Potential Vibration Potential Air Eroston	☐ High ☐ High · ☐ High		. ☐ Modera ☐ Modera ☐ Modera	. 2	J.OW J.GH LOW		
OVERALL POTENTIAL RATING	\0/\J\0/I	Scant Damage	☐ Damage	11 4	Minimal Damage	)4 O C D A	Eriable
Material Description Sample No.	1: 100 x 100	Moode	Location	ea me	· OIK · ·	NOSTIC 8 Asb.	Asb, Type
XXXX311127			Lecation			757,00.	7.00, 13pc
1 128	4 CABIN	#2	Kitch	W			
120]	J		1				
				,			
			······································				
CONDITION: % Damag	ed: %	Localized:	% Di	tributed:	Total Material Qua	ntity:	
Surfecing Ma	aterial % Crumbing - % Delaminating -	Sig. Damage	, Ş	% Googe/Punct	Sig. Damage Damaged	Misc.	umbing +
Good Cond. Contact Potential Vibration Potential	% H <sub>2</sub> O/Gouges -	Good Cond.	G Moderat	% H <sub>2</sub> O Stains -	Good Cond. Low Low	< % H;0	Gouges-
Air Erosion OVERALL POTENTIAL RATING	High	Scant Damage	D Voderat D Moderat D Damage	•	Low Minimal Damage		
Material Description	2 2/X12	light	gray 4	White	· maro	On Gred	Friable Non-friable
Sample No.	-		Location	DIO. V	nacti	% Asb	Asb. Type
JXX0 3311 130	LINAMI	11.0	100	timou	<del></del>		
131	YOUR	FO4	100	Hall V	V V,		
132	7	,		INIM	<i>i</i> y		
					<u> </u>		
						1	
CONDITION: % Damag Surfacing Mi	rleria)	Localized:	% Dis 7SI	tributed:	Total Malerial Qua	Misc.	
Sig. Damage     Damaged     Good Cond.	% Crumbling - % Delaminating - % HyO/Goupes -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	}	% Gouge/Punct - % Crushed - % HyO Stains -	Damage  Good Cond.	% Cn % Delan	umbling - ninating - Gouges-
Contact Polential Vibration Potential	☐ High ☐ High		Lifoderali Lifoderali		Low Low		

6	•	
EnviroQuest	WOIONOIPONGPO PLM DATA SHE	ЕТ
Project No.: 58	0-1	H
	CABIN PORK IMPROVEMENTS Page: 22 of a	25
Material Description	MYONADE MM WATER TO SOME COMMENTER FRIENDS	
Sample No.	Location % Asb. Asb. Typ	
DE80 35/1133	YOMETH HZ DEDIALOMONT TILE!	<u> </u>
135	Hall & Katching Bedward	
	TOM SHOWS COMMON	
<b>6</b>		
CONDITION: % Dama Surfacing &		
Damaged Good Cond. Contact Potential	* H <sub>2</sub> O/Gouges -	_
.Vibration Potential Ak Erosion OVERALL POTENTIAL RATING	1 High   Moderate   1 Low	
Material Descriptio	on: 12/1/2" Brown Aan guddud blk. Maskin Friable	
Sample No.	Location 4 % Asb. Asb. Typ	
(88)3311 134	1 Order W. W College Colleg	
137	YCKBIU#2 - BOHNOON	
- 108	<u>'</u>	
*	,	
CONDITION: % Dama Surfacing N	oped: % Localized: % Distributed: ) Total Material Quantity:  Material TSI	
Sig. Damage     Damaged     Good Cond.  Contact Potential	% Delaminating Damaged % Crushed Damaged % Delaminating % HyOKGouges US Good Cond. % HyOKGouges	=
Vibration Potential All Erosion OVERALL POTENTIAL RATING	High   G Acclerate   C Low	=
	COUL WV CTL / Etiable	
Material Descriptio Sample No.	Location , % Asb. Asb. Typ	
12803311 134	CABIN #2 _ Underinc marks	
·		
~/		
CONDITION: % Dama Surfacing &	aged. % Localized: % Distributed: Total Material Country:  Karenia) TSI Miss.  Aliss.	
D Sig. Damage Damaged Good Cond.	St. Damage   Sig. Damaged   Sig. Damaged	
Contact Potential Vipration Potential Air Erosion	☐ High ☐ Repeats ☐ Low ☐ High ☐ Recents ☐ Low ☐ High ☐ Recents ☐ Low	
OVERALL POTENTIAL RATING	Significam Damage	

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EnviroQuest .	walanapanapa	PLM DATA SHEET
Project No.: 589	Project Name: STONE PORK	Date: 3/3/1)
	CABIN POIRK IMPROVEMEN	WT Page: 23 of 25
Material Description		Friable
Sample No.	· Location	Non frieble Non frieble Asb. Asb. Type
52203311 140	CABINAZ pipe nunetration Se	algurt
		,
	,	
CONDITION: % Damage Stortecing No.	ed; % Localized: - % Distributed: Total Mate iterial 7SI	rial Quantity: Misc.
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% H-O/Gousses D Good Cond % H-O States D Good Cond	% Crumbling - % Delaminating - % H <sub>2</sub> O/Gouges-
Contact Potential Vibration Potential	☐ High ☐ Moderate Cutow ☐ High ☐ Moderate ☐ Llow	
. Air Emsion OVERALL POTENTIAL RATING	High	
Material Description	: Scalant	Frieble Non-friable
Sample No.	Location	% Asb. Asb. Type
1860881	CABIN #2 - 1200+ COTTUGGET	CQ
	Som	
	·	`` <u> </u>
10		·
GONDITION: Surfacing Ma		rial Outritity:  Arisc.  4 Crumbling -
Damaged Good Cond.	% Delaminating - Damaged % Crushed - Damaged % HyD/Gouges - Doctor Cond. % HyD Stains - D Good Cond.	% Delaminating - % H <sub>2</sub> O/Gouges
Contact Potential Vibration Potential Air Erosion	High	
OVERALL POTENTIAL RATING	☐ Significant Demage ☐ Darrage ☐ Minimal Damage	Friable
Material Description		Non-friable
Sample No.	Location	% Asb. Asb. Type
CONDITION: % Damage	od: % Locardo: % Distributed: Total Mater	rial Quantity:
Surfacing Ma		Misc.

**Lead** Analytical Report

# Appendix B





# **Analytical Report**

March 9, 2011



Mr. Jim Cardenas EnviroQuest, Inc

98-029 Hekaha St., Bldg.5, Ste 21

Aiea, HI 96701-4917

Hygeia Reference No.: 25855 11 0129

Date Sampled: March 3, 2011
Date Received: March 7, 2011
Date Analyzed: March 9, 2011
Analyst: Nahid Motamedi

Client Ref. 5880 Waianapanapa State Park - Cabin Park Improvements

Samples and data provided by: Jim Cardenas

Analyte: TTLC Lead Analytical Method: EPA 7420 Detection Limit: 25 ppm Samples Analyzed: 17
Sample Matrix: paint Digestion Method: EPA 3050B Reporting Limit: 100 ppm Sample Condition Acceptable

Hygeia Sample ID	Client Sample ID	TTLC Lead Conc. (ppm)	TTLC Lead Conc. (wt%)	
1263879	5880331101	<100	<0.01	
1263880	5880331102	<100	<0.01	
1263881	5880331103	<100	<0.01	
1263882	5880331104	<100	<0.01	
1263883	5880331105	<100	<0.01	
1263884	5880331106	4755	0.476	
1263885	5880331107	<100	<0.01	
1263886	5880331108	135	0.014	
1263887	5880331109	<100	<0.01	
1263888	5880331110	<100	<0.01	
1263889	5880331111	<100	<0.01	
1263890	5880331112	<100	<0.01	
1263891	5880331113	135	0.014	
1263892	5880331114	<100	<0.01	
1263893	5880331115	458	0.046	
1263894	5880331116	<100	<0.01	
1263895	5880331117	451	0.045	

nn: Hygeia Ref. No.: 25855110129 Page 1 of 2



# **Analytical Report**

March 9, 2011

Hygeia Reference No. 25855 11 0129 Client Reference: 5880 Waianapanapa State Park - Cabin Park Improvements

ppm = parts per million = mg/kg

Mahri MoTamodi' Supervisor of Chemistry Laboratory

Nahid Motamedi

Sample results have not been blank corrected. All quality control results meet the QC requirements of AlHA ELLAP. This report only pertains to the samples investigated and does not apply to other similar material. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of this Laboratory's name for advertising or publicity purposes without authorization is prohibited.

nm Hygeia Ref. No.: 25855110129 Page 2 of 2

Enviro0uest	ŧ								MISCELL	ANEOUS BU	I K DATA	QUEET
Project N	1,10	Nanapo	MAP	λΘ	TOTE	POWEK	······································			age: 1	OF 3	<u> </u>
Project N									[7	ate: 3/3	711	
Location:		BIN POV	ice II	MAC	WHIT.	MS			Project	Pate: 3/3 No.: 582	0	
Turnaroui	nd Time:	<12 Hrs	<u>□</u> 2.	4 Hrs	∐48 H	rs 💢 D	ays	☐5 Days	☐Other:	4		
Analysis:		·				•	Sa	mpling Med		·		
	CLP Lead CLP RCRA 8		Micro ID (s	pore)				Bulk Soil	]Tape ]Vacuum	□Wipe		
<b>X</b> ro	otal Lead	'	WT	•				777	]Water			
			Int/	TT			. 1			% of Waste	T	
Si	ample#	Building	Ext	Fir.	Room	Compone		Substrate	Color	Stream	Area / Vol	Result
1 6201	\3311O1	C BALLI I	FXT			<u> </u>		WOOD	Cypeen	1		
000	2011 O 1	CUDIN A		<del></del>				WOOD	·			
2	1 02	CABIN #	JUT 3	1 1		Wal	<u>}</u>	way	UKT			<u></u>
			IUT			MINDON	FTLAM	t wa	JHW TCK	TE .		
3	03	CABIN !	+3									
			tx1	TT		Wall		MOOD	Witten			
4	04	CABIN #	F&	·····								
5	6-		. WT		u	MOCIUIL	TRAM	f wa	D with	T		
	05	CABIN:	#-V									
6	A.		EXT			1200F		METAL	Clanin	J		
	) Of	CAPIN	#8									
7	707		Thi			Wall		WOOD	mance	<b>PU</b>		
	- 01	CABIN \$		<u> </u>	£						····	
Sampled By:(		しいハン	Relinduis		DW	adll WE	elinquished	By/Date/Time		Analyzed By	W.	
Delivered to L	ab By: Fid	-FX	Received Wit	Date/Time	P 11.17.E 4	13 PM R	eceived By/I	Date/Time		Date Analyze	nd カ <sup>/S</sup>	V)
	,	ONDENCE TO:		7				]FAX: 808.48	6.5889	E-mail: eqi@e.	nviroquestino	c.com

EnviroQuest	MISCELLANEOUS BULK DATA SHEET
Project Name: WOIONAPONAPO STOTE PORK	Page: 2 0F 3 Date: 3/3/11
Location: CABIN PONCK IMPROVEM TUTS	Date: 3/3/   Project No.: 5820
Turnaround Time: ☐<12 Hrs ☐24 Hrs ☐48 Hrs 💢3 Days ☐5 Days	Other:
☐TCLP RCRA 8 ☐ Soil ☐V	ape
Sample# Building Int/ Ext Fir. Room Component Substrate	Color % of Waste Area / Vol Result
1 5880331108 CABIN #8	DINK
THE TOP TOP TOP TO THE	MARROOD
2 09 CKBIN # 10	
3 10 CABIN # 10 WALL WOOD	Itan I
1 11 CABIN # 10	ORANGE
5 12 CABIN H- 9 WAII WOOD	(uneal)
6 13 CABIN # 9	manpoid
14 CASIN #21 0	WHIT
Sampled By: CAROTUS  Relinquis ByD Time  Received By/Date/Time  Received By/Date/Time  Received By/Date/Time	Analyzed By  Date Analyzed
SEND ALL CORRESPONDENCE TO:	

12200 162	sbestos/Lead/Hazardous Material Survey	Existing Conditions –
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			•					
EnviroQuest					<i>MISCELLA</i>	NEOUS BUI	KDATA	SHEET
	apanapa s				Pag Da	ge: <u>3</u> te: <u>3</u> /3	0F 3	
Location:	POIRK HAPPE	WOITT CK	_		Project N	o.: <u>588</u>	0	***************************************
Turnaround Time: □<	12 Hrs	⊡48 Hrs	∑3 Days	☐5 Days	Other:_		***************************************	
Analysis:  TCLP Lead  TCLP RCRA 8  Total Lead	Micro ID (spore)		-		pe [ cuum [ ater · [	Wipe		
Sample# Build	ing Int/ Fir.	Room	Component	Substrate	Color	% of Waste Stream	Area / Voi	Result
1 58803311 IS CAP	OW # OK		DUOF	METAL	OUNU	t		
2 10 000	I. IUT		DOOR	WOOD	COMM	wE		
3 V 17 CKP	EXIT .		wall	wea)	Lence	U		
4								
5								
6								
7								
Sampled By: OCAVOTHAS  Delivered to Lab By: FLO -FX	Received By Date/Time	MM 3	di Mi	shed By/Date/Time d By/Date/Time		Analyzed By  Date Analyzed	nr 1 3-8-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
SEND ALL CORRESPONDENC	ETO:		-	□FAX: 808.486.58	189 M	E-mail: eqi@en	viroauestinc	.com

# Photographic Documentation

# Appendix C



EnviroQuest, Inc.

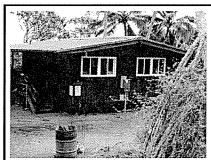


Photo #1 Cabin 1



Photo #2 Cabin 1



Photo #3 Storage. Asbestos containing 12"X12" tan with maroon and white specks tile.

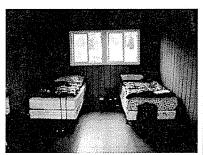


Photo #4
Bedroom by the kitchen area. Asbestos containing 12"X12" light-gray tile.



Photo #5
Non lead-based orange and green paint on the walls and kitchen cabinets.



Photo #6
Asbestos containing gray undercoating sink mastic.



EnviroQuest



Photo #7 Cabin 2



Photo #8 Cabin 2



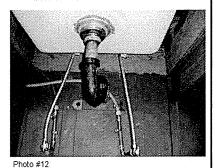
Photo #9 Kitchen. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #10 Hallway. Asbestos containing 12"X12" light-gray tile and brown mastic.



Photo #11 Non lead-based marcon paint on the kitchen cabi-



Asbestos containing gray undercoating sink mastic.



EnviroQuest



Photo #13 Cabin 3



Photo #14 Cabin 3



Photo #15 Bedroom. Asbestos containing 12"X12" light-gray tile with white specks.



Photo #16 Kitchen. Asbestos containing tile and mastic under the 12\*X12\* brown speckled tile.



Photo #17 Non lead-based tan paint on the walls.



Photo #18 Asbestos containing gray undercoating sink mastic.





Photo #19 Cabin 4



Photo #20 Cabin 4



Photo #21 Kitchen. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #22 Asbestos containing 12"X12" light-gray tile with white and maroon specks.



Photo #23 Non lead-based orange paint on the kitchen cabinets.



Photo #24 Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG Wai'anapanapa State Park Cabin Park Improvements CABIN 4

4

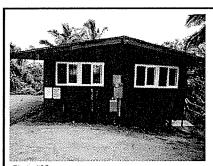


Photo #25 Cabin 5



Photo #26 Cabin 5



Photo #27 Kitchen. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #28
Asbestos containing 12"X12" light-gray tile with with white and maroon specks.



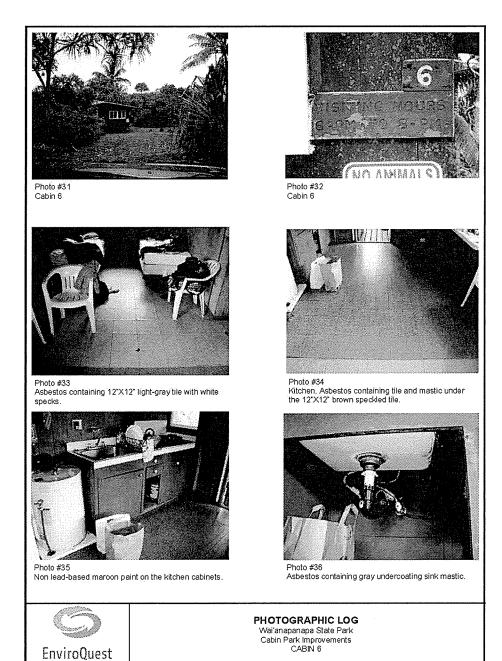
Photo #29 Non lead-based maroon paint on the cabinets.



Photo #30 Asbestos containing gray undercoating sink mastic.



EnviroQuest



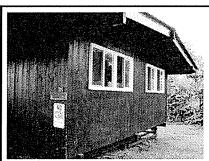


Photo #37 Cabin 7



Photo #38 Cabin 7



Photo #39 Kitchen. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #40 Asbestos containing black mastic under the 12"X12" tan tile.



Photo #41 Unpainted wood kitchen cabinets.

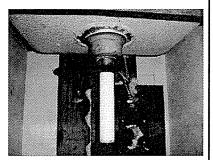


Photo #42
Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG Wai'anapanapa State Park Cabin Park Improvements CABIN 7

7



Photo #43 Cabin 8



Photo #44 Cabin 8



Photo #45 Bedroom by the kitchen. Asbestos containing tile and mastic under the 12"X12" cream tile with tan specks.

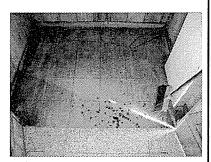


Photo #46 Storage. Asbestos containing 9"X9" tan tile and black mastic.



Photo #47
Non lead-based pink paint on the kitchen cabinets.



Photo #48 Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG Wai'anapanapa State Park Cabin Park Improvements CABIN 8

8

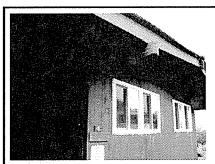


Photo #49 Cabin 9



Photo #50 Cabín 9



Photo #51 Kitchen. Asbestos containing black mastic under the 12"X12" cream colored tile.

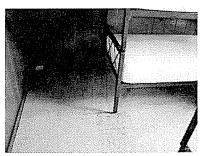


Photo #52 Bedroom. Asbestos containing black mastic under the 12"X12" cream colored tile.



Non lead-based paint cream colored paint on the kitchen cabinets.

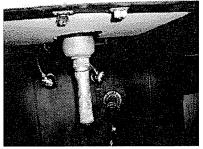


Photo #54 Asbestos containing gray undercoating sink mastic.



EnviroQuest

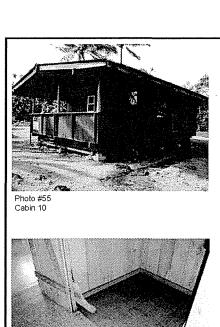


Photo #57
Asbestos containing 9"X9" tan tile with maroon and white specks and black mastic.



Photo #59 Non lead-based paint cream colored paint on the kitchen cabinets.



Photo #56 Cabin 10



Photo #58
Asbestos containing black mastic under the 12"X12" cream colored tile with tan specks.



Photo #60 Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG Wai'anapanapa State Park Cabin Park Improvements CABIN 10

10



Photo #61 Cabin 11



Photo #62 Cabin 11



Photo #63 Bedroom by the kitchen area. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #64 Kitchen. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #65 Bathroom. Asbestos containing tile and mastic under the 12"X12" brown speckled tile.



Photo #86 Non asbestos containing white undercoating sink mastic.



PHOTOGRAPHIC LOG Wai'anapanapa State Park Cabin Park Improvements CABIN 11

11

### **SECTION 13281**

### ASBESTOS ABATEMENT

### PART 1 - GENERAL

### 1.1 SUMMARY

A. In performing this project, all possible safeguards, precautions and protective measures shall be utilized to prevent exposure of any individual to asbestos particulates.

### 1.2 DESCRIPTION OF WORK

- A. Furnish all labor, materials, equipment, and services, necessary to carry out the safe removal and disposal of asbestos-containing material in compliance with these specifications, EPA, OSHA, State of Hawaii regulations, and any other applicable Federal and State regulations. Whenever there is a conflict or overlap of the above references, the most stringent shall apply. The asbestos work at the Wai'anapanapa State Park cabins shall generally include:
  - 1. Restroom Areas. Removal and disposal of asbestos containing floor tiles and associated mastic down to the structural substrates from the restrooms in Cabins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 12 as identified in the Architectural Drawings.
  - 2. Non-Restroom Areas. Removal and disposal of the loose and damaged asbestos containing floor tiles and associated mastic down to the structural substrate throughout cabins 1, 2, 3, 4, 5, 6, 7, 8, 9, 10,11, and 12.
  - 3. Removal and disposal of the sinks with asbestos containing sink mastic from Cabins 1, 2, 4, 5, 6, 8, 9, 10 and 11 as indicated in the Architectural Drawings.
  - 4. If disturbed by the renovation work, removal and disposal of asbestos containing roof sealant from Cabins 9, 11 and 12 as indicated in the Architectural Drawings.
  - 5. Contractor to coordinate all work with the State and the General Contractor, General Contractor hired Qualified Consultant. Contractor is responsible to satisfy himself as to the total extent of all work, including to but not limited to the quantity, location, thickness, layers, accessibility, etc. of all material prior to commencement of any work. All work is to be completed when the area is vacant.
- B. In general, the principal items of the asbestos removal work shall be as follows:
  - 1. Worker Protection
  - 2. Decontamination Enclosure System
  - 3. Preparation of Work Area

- 4. Removal of asbestos-containing materials
- 5. Removal of protective sheeting
- 6. Disposal
- C. Cleaning shall include areas within and immediately around the work area affected by the abatement work and all areas contaminated by the Contractor's work.

### 1.3 COORDINATION WITH OTHER SECTIONS

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

### 1.4 SUBMITTALS PRIOR TO WORK

- A. Final payment will not be made until copies of all submittals have been furnished to and accepted by the State. Submit 6 copies of the submittal package, no later than 10 consecutive working days from award notice, which will include the items listed below.
- B. Notices: As early as possible but prior to commencement of work, as regulated by each agency and before commencement of any on-site project activity, send a courtesy 10-day notice in accordance with 40 CFR Part 61.145 of Subpart M, of the proposed asbestos abatement work with copies to the State and to the following agencies:
  - 1. The Administrator of the Environmental Protection Agency (EPA) Regional Office having jurisdiction over the project.
  - 2. State of Hawaii, Department of Health, courtesy "Notification of Demolition and Renovation" form. Send to: Noise, Radiation and Indoor Air Quality Branch, Asbestos Abatement Office, State Department of Health, P.O. Box 3378, Honolulu, Hawaii 76801-9984.
- C. Permits & Licenses: Copies of all permits, licenses (C-19) and arrangements for removal, transportation and disposal of asbestos-containing materials and waste water, no later than 20 consecutive working days from notice of award unless otherwise instructed in writing by the State.
- D. Insurance: Proof of insurance for Workman's Compensation and General Liability which covers asbestos, lead, and pollution.
- E. Manufacturer's Data: Copies of manufacturer's specifications, installation instructions and field test procedures for each material and all equipment related to asbestos

handling and abatement and include other data as may be required to show compliance with these specifications and proposed uses.

- F. Samples: Samples of the following items for approval prior to ordering materials:
  - 1. Surfactant: copies of manufacturer's literature including all laboratory data, mixing and application instructions.
  - 2. Tapes and Adhesives: copies of manufacturer's literature including all laboratory data.
  - 3. Warning Labels and Signs: copies of examples of all required signage.
  - 4. Protective Clothing: copies of manufacturer's literature on all protective clothing and one sample of each item which will be returned to the Contractor.
  - 5. Respirator Equipment: copies of manufacturer's literature on all respirator equipment and one sample of each item which will be returned to the Contractor.
  - 6. Asbestos Encapsulant(s): copies of manufacturer's literature including all laboratory data, application instructions.
- G. Work Plan: Submit a project Work Plan for the asbestos-containing material disturbance work written and signed by the Contractor's State of Hawaii, Department of Health certified Asbestos Project Designer. The Contractor shall also provide detailed information concerning:
  - 1. Preparation of the work area.
  - 2. Personal protective equipment including respiratory protection and protective clothing.
  - 3. Decontamination procedures for the personnel who may be exposed to asbestos.
  - 4. Handling and disposal methods and procedures to be used.
  - 5. Required air monitoring procedures and sampling protocols.
  - 6. Procedures for final cleanup.
  - 7. A sequence of work and performance schedule in coordination with other trades.
  - 8. Emergency procedures.
- H. Shop Drawings: Submit shop drawings for the following items as a minimum:
  - 1. Descriptions of any equipment to be employed not discussed in this section.
  - 2. Security provisions, if any, in and around the project area.

- 3. Outline of work procedures to be employed.
- 4. Location of waste dumpster.
- 5. Staging of the work, the sequence
- 6. Entrances and exits to the work place
- 7. Location and construction of worker decontamination units
- 8. Water filtration system for all contaminated water. Description of water disposal and copy of water disposal permit from Maui County, *Temporary Industrial Wastewater Discharge* Permit.
- 9. Proposed method of attaching plasticizing (polyethylene sheeting) shall be approved in advance to minimize damage to equipment and surfaces. Method of attachment may include any combination of duct tape or other approved waterproof tape, furring strips, spray glue, staples, nails screws or other effective procedures capable of sealing adjacent sheets of polyethylene sheeting and capable of sealing polyethylene to dissimilar finished or unfinished surfaces both under wet and dry conditions (including amended water).
- 10. Proposed method of patching and repairing all damage to existing finishes from the attachment of polyethylene sheeting (as applicable).
- I. Documentation for Instruction: Submit documentation that each and every individual, including foremen, supervisors, and other company personnel or agents and any other individual who may be exposed to airborne asbestos fibers, who may be responsible for any aspect of abatement activities, or who is allowed or permitted to enter areas where such exposure may occur has currently attended and passed the Abatement Worker and/or Abatement Contractor/Supervisor course whichever is relevant to that workers responsibilities as specified in 40 CFR Part 763, "Asbestos Materials in Schools". These courses shall be EPA-approved or approved by a State Accreditation Program in the most current listing of the Federal Register. No worker shall be allowed on site if they are found to have either an expired accreditation certificate or States not comply with the requirements set forth in 40 CFR Part 763 on training. All workers shall be certified for asbestos related work in accordance with Department of Health, Chapter 11-504, Hawaii Administrative Rules, Asbestos Abatement Certification Program.

The Contractor shall be responsible for keeping the documentation up to date and subsequent submittals to the State before any additional employee or individual, not currently on the list, is allowed within the project site.

Submit completed and signed "Employee Acknowledgment of Instruction and Release" forms. A sample "Employee Acknowledgment of Instruction and Release" form is provided at the end of this section.

- J. Documentation from Physician: Submit documentation from a physician that all employees or agents who may be exposed to airborne asbestos have been provided with an opportunity to be medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. In addition, document that all individuals permitted within the project site have received medical monitoring or had such monitoring made available to them as required in OSHA 29 CFR 1926.1101, and HIOSH 12-145.1. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities. The Contractor shall keep and make available to all affected individuals a record and the results of such examinations.
- K. HEPA Vacuums: Submit manufacturer's certification that vacuums conform to ANSI Z9.2-79, Fundamentals Governing the Design and Operation of Local Exhaust Systems as applicable to this project.
- L. Rental Equipment: When rental equipment is to be used in abatement areas or to transport asbestos contaminated waste, a written notification concerning intended use of the rental equipment must be provided to the rental agency with a copy submitted to the State.
- M. Emergency Planning Procedures: Contractor shall submit for review and acceptance by the State, an emergency plan prior to abatement initiation.
  - Emergency procedures shall be in written form and prominently posted adjacent to the Worker Protection Notices specified hereinafter. Everyone prior to entering the work area must read and sign these procedures to acknowledge receipt of emergency exits and emergency procedures.
  - 2. Emergency planning shall include notification of police, fire, and emergency medical personnel of planned abatement activities work schedule, and layout of the work area, particularly barriers that may affect response capabilities.
  - Emergency planning shall include considerations of fire, explosion, toxic
    atmospheres, electrical hazards, slips, trips and falls, and heat related injury.
    Written procedures shall be developed and employee training procedures shall be
    provided in Contractors plan.

## 1.5 SUBMITTAL AFTER WORK IS COMPLETED

- A. At the completion of the work, a final report shall be prepared by the Contractor for acceptance by the State. Six copies of the report shall be submitted and shall include the items listed below.
- B. The project name, Abatement Contractor, Abatement Contractor license number, notification form to the Hawaii Department of Health and EPA, work duration, material removed, respiratory protection employed, asbestos waste manifest, total quantity of waste, employee exposure air sample results, and results of the most

- current PAT round results for the laboratory or laboratories conducting the employee exposure, ambient, and TEM air sample analysis.
- C. Certification of the Abatement Contractor's employees.
- D. Visitor/Worker Entry Log: The daily log of all personnel including the Contractor's employees and agents who enter the work area while asbestos abatement operations are in progress, until final clearance is received that the work area is asbestos free. The log shall contain the listed information as a minimum and shall be certified by the Oualified Consultant.
  - 1. Date of visit/worker entry
  - 2. Visitor/Worker's name, employer, business address and telephone number
  - 3. Time of entry and exit from work area
  - 4. Purpose of visit
  - 5. Type of protective clothing and respirator worn
  - 6. Certificate of release signed and filed with the contractor
- E. Clearance certifications received from the Qualified Consultant.
- F. A statement signed by the Asbestos Abatement Contractor that all asbestos abatement and disposal was completed in compliance with this specification, Federal and State regulations, and the approved Work Plan

## 1.6 PRODUCT HANDLING

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

## 1.7 PROTECTION

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

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

## 1.8 ABBREVIATIONS

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

## 1.9 GENERAL REQUIREMENTS

A. Contractor shall examine and have at all times in his possession at his office (one copy) and in view at each job site office (one copy) a current issue of the following publications:

- 1. State of Hawaii: Occupational Safety and Health Standards; Title 12, Subtitle 8, Chapter 145.1, Asbestos
- 2. State of Hawaii, Department of Health, Title 11, Chapter 501-1, Asbestos Requirements
- 3. State of Hawaii, Department of Health, Title 11, Chapter 501-2, Asbestos Containing Materials in Schools
- 4. State of Hawaii, Department of Health, Title 11, Chapter 501-4, Asbestos Abatement Certification Program
- 5. Title 29, Code of Federal Regulations, Section 1910.134 General Industry Standard for Respiratory Protection, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor
- 6. Title 29, Code of Federal Regulations, Section 1926.1101 Asbestos, Construction Industry, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor
- 7. Title 29, Code of Federal Regulations, Section 1910.2 Access to Employee Exposure and Medical Records, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor
- 8. Title 29, Code of Federal Regulations, Section 1910.1200 Hazard Communication, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor
- 9. Title 40, Code of Federal Regulations, Part 61, Subparts A and M (Revised Subpart B), National Emission of Standards for Hazardous Air Pollutants, U.S. Environmental Protection Agency (EPA)
- 10. Guidance for Controlling Asbestos-Containing Materials in Buildings, EPA 560/5-85-024 (Purple Book), U.S. Environmental Protection Agency (EPA)
- 11. Title 34, Code of Federal Regulations, Part 231, Appendix C, Procedures For Containing and Removing Building Materials Containing Asbestos, U.S. Environmental Protection Agency (EPA)
- 12. Title 29, Code of Federal Regulations, Section 1910.145 Specifications for Accident Prevention, Signs and Tags, Occupational Safety and Health Administration (OSHA), U.S. Department of Labor
- 13. ANSI Z88.2-80 Practice for Respiratory Protection
- 14. EPA, Final Response to the Asbestos Hazard Emergency Response Act (AHERA), 40 CFR, Part 763, Subpart E

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

## 1.10 DEFINITIONS

- A. Abatement: Procedure to control fiber release from asbestos-containing building materials:
  - 1. Removal: All herein specified procedures necessary to remove asbestoscontaining materials at an approved site in an acceptable manner.
  - 2. Post-Removal Surface Encapsulation: Procedures necessary to coat surfaces from which asbestos-containing materials have been removed and where designated on the drawings to control any residual fiber release.
- B. Air Monitoring: The process of measuring the fiber content of a specific, known, volume of air in a stated period of time.
- C. Amended Water: Water to which a surfactant has been added to reduce water surface tension and thereby provide a more rapid penetration.
- D. Authorized Visitor: the State, the Qualified Consultant, his representatives, air monitoring personnel, or a representative of any regulatory or other agency having jurisdiction over the project.
- E. Holding Area: A secure area used for the storage of double-bagged asbestos containing material before removal from the project site to an approved disposal site.

- F. Fixed Object: A unit of equipment or furniture in the work area which cannot be removed from the work area without dismantling.
- G. Friable Asbestos: Asbestos containing material which can be crumbled to dust, when dry, under hand pressure.
- H. HEPA Filter: A High Efficiency Particulate Absolute filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 micron in length.
- I. HEPA Vacuum Equipment: Vacuuming equipment that utilizes a High Efficiency Particulate Absolute (HEPA) filter.
- J. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
- K. Post-Removal Encapsulation: A liquid material which can be applied to surfaces from which asbestos-containing material has been removed to control the possible release of residual fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating in to the material and binding its components (penetrating encapsulant). Selected product shall be compatible with the existing finishes including wood, metal, and plastic.
- L. Qualified Consultant: Consultant hired by the General Contractor who will perform air monitoring and inspection during abatement work and shall have the authority to initiate engineering controls. The Qualified Consultant will be accredited as a State of Hawaii Department of Health accredited Asbestos Project Monitor.

## PART 2 - PRODUCTS

## 2.1 MATERIALS

- A. Plastic Sheeting: Minimum thickness is 6-mil polyethylene film.
- B. Plastic Bags: Minimum thickness 6-mil polyethylene film labeled as specified hereinafter.
- C. Tapes: Tape shall be capable of sealing joints of adjacent sheets of polyethylene and for attaching polyethylene sheets to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including the use of amended water. Silver cloth duct tape, minimum 2 inches wide; red or NATO orange tape, minimum 2 inches wide for exit arrows; and double faced foam tapes.
- D. Adhesives: Adhesives shall be capable of sealing joints of adjacent sheets of polyethylene and for attachment of polyethylene sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including use of amended water.

- E. Surfactant (Wetting Agent): 50 percent polyoxyethylene ester and 50 percent polyoxyethylene ether, or equivalent, and shall be mixed with water to provide a concentration of one ounce, or more as needed, of surfactant to 5 gallons of water. (An equivalent surfactant shall be understood to mean material with a surface tension of 29 dynes/cm as tested in its properly mixed concentration, using ASTM method D 1331-56 (R 1980), "Surface and Interfacial Tension of Solutions of Surface-Active Agents.")
- F. Warning Labels and Signs: As required by OSHA regulations 29 CFR 1926.1101 and HIOSH 12-145.1. Permanent signage for access panels and areas with encapsulated asbestos-containing materials shall be as specified hereinafter. Signage shall be as approved by the State.
- G. Protective Clothing: As specified hereinafter. The Contractor shall have all the required sets of coveralls required for this project on island prior to the start of work. There will be no time extension for the unavailability of coveralls or related equipment.
- H. Post-Removal Encapsulation: The encapsulant shall be applied to surfaces from which asbestos-containing material has been removed to control the possible release of residual fibers, either by creating a membrane over the surface (bridging encapsulant) or by penetrating in to the material and binding its components (penetrating encapsulant) and shall be compatible with the existing finishes including wood, metal, and plastic.
- I. Other Materials: Provide all other materials, such as, but not limited to lumber, plywood, nails, fasteners, metal studs, hardware, foam sealants, and caulking which may be required to properly prepare and complete this project.

# 2.2 TOOLS AND EQUIPMENT

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

# 2.3 PERSONNEL PROTECTION REQUIREMENTS

A. The contractor acknowledges he alone is responsible for instruction and for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard.

- B. Provide workers with sufficient sets of disposable protective full body clothing consisting of material impenetrable by asbestos fibers and of the proper size for each individual to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloves and headgear. Provide hard hats as required by applicable safety regulations. Disposable clothing shall not be allowed to accumulate and shall be disposed of as asbestos contaminated waste. Protective clothing shall be worn by all personnel within the work area from the start of the removal and post-removal encapsulation work until the work area has received its final clearance.
- C. Insulated non-skid rubber boots or an approved equal shall be required for all individuals entering the work area. Protective full body clothing without elastic at sleeves and legs shall require separate elastic or taped protection to seal the opening. Visitors shall be provided full body protective clothing.
- D. No visitors shall be allowed in work areas, except as authorized by the State. Visitors must supply their own respiratory protection and show proof training in accordance with DOH 11-501-504.
  - The Contractor shall include in his Bid the expense of a total of 4 changes of clothing per day for each day of asbestos abatement work for visitor's use. The quantity shall accumulate and may be used at any time during asbestos abatement work at the discretion of the State.
- E. All electrical systems used for asbestos abatement operations shall as a minimum be protected with "Ground Fault Circuit Interrupters" selected and installed in strict accordance with the manufacturer's instructions, the National Electric Code and all other pertinent codes.
- F. Additional safety equipment (e.g. hardhats meeting the requirements of ANSI Z-89.1-1981, eye protection meeting the requirements of ANSI Z87.1-1979, safety shoes meeting the requirements of ANSI Z41.1-1967, disposable PVC gloves), as necessary, shall be provided to all workers and authorized visitors.

# PART 3 - EXECUTION

## 3.1 SEPARATION OF WORK AREAS FROM NON WORK AREAS

- A. Penetrations: Ceiling and wall penetrations, windows and doors, shall be sealed with two layers of 6-mil poly sheeting and secured with duct tape.
- B. Emergency Exits: Designate and maintain emergency and fire exits from the work area in accordance with local codes and regulations. In case of fire while doing work in the work areas, emergency exit procedures have priority over normal work exiting procedures.
- C. Inspection: The Contractor shall inspect all barriers at least twice a day (once prior to the start of each day's abatement operations and following the day's abatement operations). Document the inspections and observations in a daily project log.

## 3.2 DECONTAMINATION ENCLOSURE SYSTEMS

- A. Personnel Decontamination Area: At a minimum provide a personnel decontamination area consisting of a Dirty Area, Wipe Down Area, and Clean Area.
- B. Maintenance of Decontamination Area: At the beginning of each work shift and throughout abatement operations all areas shall be kept clean at all times.
  - 1. Personnel Decontamination Area:
    - a. The Contractor shall maintain Clean Area and shall repair and sanitize respirator equipment after each use.
    - b. Disposable sanitary hand wipes shall be available at all times.
    - c. Provide a disposal bag for contaminated filters in the Wipe Down area at all times.

## 3.3 WASTE WATER FILTERING SYSTEM

- A. Prior to any waste water disposal into the sanitary sewer system, the Contractor shall be responsible for obtaining from Maui County, *Temporary Industrial Wastewater Discharge* Permit.
- B. Filter: All waste water that will be discharged into the sanitary sewer system shall be treated as contaminated with asbestos and shall be filtered using two in-line filter cartridges with 2" inlets and outlets. The outlet of the first cartridge shall connect to the inlet of the second cartridge. The first cartridge shall contain six 100-micron prefilters and a second cartridge shall contain six 0.5-micron filters or equal staging according to type filtering unit.
- C. One spare set of 100-micron prefilters shall be maintained at the site at all times to replace prefilters during cleaning. Maintain at least one set of 0.5-micron or equal filters at the site at all items form replacement as necessary.

#### 3.4 COMMUNICATIONS

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

# 3.5 WORK AREA PREPARATION

- A. Work by the Asbestos Abatement Contractor:
  - 1. Step 1:
    - a. Posting of Danger Signs: Post danger signs in and around the work area to comply with 29 CFR 1926.1101, HIOSH 12-145.1 and all other Federal, State and local requirements. Signs shall be posted at a distance sufficiently far

- enough away from the work area to permit a person to read the sign and take the necessary protective measures to avoid exposure.
- b. Critical Seals (barriers): Seal all windows, doors, and openings to the regulated work area including ducts, vents, electrical penetrations, and any other penetrations of the work areas with plastic sheeting. Plastic sheeting is to remain in place for the duration of the asbestos abatement or until specified by the QC.
- c. Inspect the Building Openings: At the beginning of each work day, the Contractor shall inspect and ensure that all doors, windows and other openings of affected building(s) and all surrounding buildings are closed and locked (as applicable).

# 2. Step 2:

- a. Provide Decontamination Units/Areas where appropriate: Personnel Decontamination Unit(s) specified hereinafter shall be required.
- b. Precleaning/Wet-wiping:
  - Preclean fixed object within the work area, first using HEPA vacuum equipment and then wet cleaning methods as appropriate and separately enclose with minimum 6-mil plastic sheeting sealed with tape. Fixed objects shall include, but not be limited to exposed electrical conduits and all other permanently fixed items.

## 3. Step 3:

- a. Plasticizing: Objects which may be contaminated during abatement or difficult to clean shall be taped and sealed in a minimum of 6-mil polyethylene plastic sheeting. A minimum of 2 layers of 6-mil polyethylene plastic sheeting shall be used for preparation of critical barriers and containments.
- b. Marking Exits: Maintain and mark both normal and emergency exits from the work areas to include large tape or spray painted orange arrows in the direction of egress. One arrow marking shall be visible from every work location. Establish a color or designation system to distinguish normal exiting to the personnel decontamination unit and emergency exiting when life safety conditions prevail.
- 4. Step 4: Temporary Utility Services:
  - a. Temporary Electricity and Lighting:
    - 1) Existing electrical service to the building may be used for temporary electrical power during abatement work.
  - b. Temporary Water:

 Existing domestic water service to the building may be used for temporary water during construction. Location of tie-in shall be approved by the State.

## c. Temporary Fire Protection:

- 1) Provide and maintain temporary fire protection equipment during the asbestos abatement operations.
- 2) Equipment shall be of the appropriate type to fight fires associated with the existing building materials and those materials used during the construction operations.
- 3) The Contractor shall clearly mark the location of all fire extinguishers.
- 5. Step 5: After the sealing and temporary facility work is completed, notify the Qualified Consultant and get his approval prior to proceeding with abatement.

## 3.6 REMOVAL OF FLOOR TILE/ADHESIVE

- A. Spray the asbestos-containing material repeatedly during the removal operations to maintain a wet condition and to minimize asbestos fiber dispersion. The Qualified Consultant shall have the authority to stop all work due to improper removal techniques.
- B. Before beginning the next section, the material shall be packed while still moist into sealable 6-mil double polyethylene bags and sealed airtight. No removed material, whether bagged or unbagged, shall be allowed to dry, fall to the ground, be crumbled into small pieces, pulverized, or made friable.
- C. It shall be the responsibility of the Contractor to verify the thickness of the material and satisfy himself as to the total work and/or effort to remove said material. No additional payment will be considered by the State for any deviations of the actual thickness from the thickness noted on the drawings.
- D. The Contractor is prohibited from using methods or removal that create excessive amounts of dusts and debris.

# 3.7 REMOVAL OF ROOFING MATERIAL

- A. Prior to the start of the actual removal work, fall protection shall be utilized, as applicable, to prevent injury to roof removal workers in compliance with OSHA 29 CFR 1926.502 and OSHA 29 CFR 1926.503.
- B. Thoroughly encapsulate and wet the affected roof area before starting the removal.

- C. Prevent contamination spreading to the surrounding public. No removal work shall be allowed during heavy rain or if wind conditions are at or above 20 mph or in the event of rain. The asbestos-containing material shall be constantly sprayed with amended water containing a wetting agent (surfactant). A fine "mist" spray of the amended water shall be applied in small sections to reduce fiber release preceding the removal of the asbestos-containing material. Spray the asbestos-containing material repeatedly during the removal operations to maintain a wet condition and to minimize asbestos fiber dispersion.
- D. The asbestos-containing material shall be removed in small sections. Before beginning the next section, the material shall be packed while still moist into sealable 6-mil double polyethylene bags and sealed airtight. No removed material, whether bagged or unbagged, shall be allowed to dry, fall to the ground, be crumbled into small pieces, pulverized, or made friable. The Contractor shall provide an acceptable means of lowering the bagged asbestos debris to the ground or transporting the bagged material so as not to cause the bag to break or tear. Once on the ground, the double bagged material shall be stored in a holding bin. The surrounding ground area around the roof removal shall be cleaned of roofing debris found throughout the duration of the abatement.
- E. It shall be the responsibility of the Contractor to verify the thickness of the material and satisfy himself as to the total work and/or effort to remove said material. No additional payment will be considered by the University for any deviations of the actual thickness from the thickness noted on the drawings.
- F. Contractor to coordinate all work with the General Contractor. Contractor is responsible for protecting all exposed surfaces from water damage and water intrusion.
- G. The Contractor is prohibited from using methods of removal that create excessive amounts of dust and debris.

## 3.8 REMOVAL OF SINKS

- A. Wet the sink undercoating with a wetting agent (surfactant) using a fine mist sprayer.
- B. Carefully dismantle the sink with the asbestos-containing undercoating intact. Continue to apply the wetting agent during removal to control dust.
- C. The entire sink shall be bagged or wrapped and sealed in 6-mil plastic bags immediately after removal.
- D. All existing surfaces to remain shall be protected from amended water

## 3.9 EQUIPMENT CLEANING

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

## 3.10 ASBESTOS-CONTAINING WASTE HANDLING

- A. Collect and bag all asbestos debris and any other contaminated debris found in the work area. Clean the visible residual by HEPA vacuuming.
- B. Clean fixed object within the work area, using HEPA vacuum equipment.
- C. Debris shall be bagged and sealed in 6-mil plastic bags immediately after removal. All gross debris created by the removal process shall be bagged and sealed at the end of each removal day.
- D. The bags containing the asbestos waste material shall be checked for evidence of waste material attached to the outside of the bags. If dirty, the bags shall be washed down in the work area. The bags are then moved to the Holding bin. Bags and containers shall be marked with OSHA label prescribed by the Hawaii OSHA regulations referenced in these specification. Label shall state, "DANGER CONTAINS ASBESTOS FIBERS AVOID CREATING DUST CANCER AND LUNG DISEASE HAZARD." Additionally, label bags in accordance with OSHA 40 CFR 61.150; or EPA 40 CFR 763 if more restrictive. Labeling shall include the name of the waste generator and the site where the waste was generated.

## 3.11 CLEANING AND CLEARANCE OF THE WORK AREA

- A. Should the contractor fail to commence work to clean-up and make the work area asbestos free within one working day after the clean-up thereof has been requested by the State, and thereafter to expeditiously complete the said clean-up, State may without further notice and without termination of contract, have the clean-up done and deduct the cost thereof from the contract.
- B. Visual Clearance of Removal Work Areas: Remove all visible accumulation of asbestos-containing materials and debris by HEPA vacuums, sponging, and wetwiping. The work areas shall be totally visibly clean and remaining material encapsulated. The Contractor, in the presence of the Qualified Consultant, shall make a complete visual inspection of the work area to ensure dust-free conditions.
- C. Once the Qualified Consultant verifies that the work areas are essentially clean of visible asbestos-containing debris, the Qualified Consultant will collect minimum of two post abatement PCM air clearance samples from each interior work area. The turnaround time of all PCM air samples will be 12 hours from the time of collection.
- D. Should the Contractor fail to achieve the clearance level lower than 0.01 f/cc. Contractor will re-clean the area at no additional cost to the State and all additional fees to perform the sampling and analysis by the Qualified Consultant shall be paid for by the Contractor.

E. After achieving a clearance level lower 0.01 f/cc, the work area will be cleaned of all remaining containment enclosure sheeting. Clean and repair damage caused by temporary installations or use of temporary facilities. Restore existing facilities to their original condition or better, as approved by the State. Signage applicable to job site safety and the performance of the remaining portions of the work shall remain as applicable.

### 3.12 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL

A. As the work progresses asbestos-containing waste is generated the Contractor shall transport all waste generated on a pre-scheduled day to the State of Hawaii, Department of Health's authorized disposal site, or as specifically approved by the State to delay a disposal operation. Transport all waste to the predesignated disposal site in accordance with EPA regulations and specific landfill requirements.

Contaminated material shall be double—bagged in bags with OSHA label prescribed by the HIOSH regulations referenced in these specifications. Label shall state, "DANGER – CONTAINS ASBESTOS FIBERS – AVOID CREATING DUST – CANCER AND LUNG DISEASE HAZARD." Additionally, label bags in accordance with OSHA requirement 29 CFR 1926.1101, HIOSH 12–145.1 or EPA 40 CFR 61.150 if more restrictive. Labeling shall include the name of the waste generator and the site where the waste was generated.

- B. Mark vehicles used to transport asbestos-containing waste material during the loading and unloading of the waste so that the signs are visible. The marking must be displayed in such a manner and location that a person can easily read the legend. Refer to 40 CFR Part 61.149 for lettering size, fonts and wording of sign requirements. For all loading and unloading activities, the sign referred to in 40 CFR Part 61.150 (b) (3) shall be displayed prominently.
- C. Vehicles used for transporting waste to the disposal sites shall have a completely enclosed, lockable storage compartment. Storage compartments shall be plasticized and sealed with a minimum of one layer of 6 mil polyethylene sheeting on the sides and top and two layers of 6 mil polyethylene on the floor (bed). Waste materials, except those with sharp edges (metal lath, screws, nails, metal suspension system, etc.), properly double bagged may be transported to the disposal site without being placed in drums if the transporting vehicle is prepared as specified above in addition to any more stringent requirements by HIOSH. The compartments shall be thoroughly wet—cleaned and/or HEPA vacuumed following the disposal of each load at the disposal sites at an approved location with electrical power as required. At the conclusion of the asbestos abatement, or before transport vehicles are used for other purposes, the polyethylene sheeting shall be properly removed and disposed of as contaminated waste. After this has been accomplished, compartments shall once again be wet—cleaned and HEPA vacuumed in order to eliminate all debris.

- D. At the landfill, upon delivery of the waste for disposal, the Contractor shall notify the Scale Attendant and Landfill Spotter that the waste to be disposed of is asbestos material.
- E. Workers unloading bags at the disposal sites shall be dressed in full body protective clothing and dual cartridge respirators.
- F. Waste disposal manifest forms shall be properly completed to assure custody and disposal of all asbestos—containing material and asbestos contaminated waste at approved disposal sites. Forms shall be kept on file as directed by the State with copies submitted to the Qualified Consultant the next working day after each trip. NOTE: IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ANY LANDFILL USED FOR DISPOSAL OF ASBESTOS—CONTAINING OR ASBESTOS CONTAMINATED WASTE IS APPROVED FOR THAT PURPOSE.
- G. Bags must be placed in the hole for burial. Dumping of bags from the containers will not be allowed. However, if a bag is torn and if acceptable by the landfill, the entire container may be buried.
- H. Liquid waste for disposal shall be filtered as specified herein.
- I. The Contractor shall pay the waste disposal charge and any special handling charges at the landfills. All expenses for landfills shall be the complete responsibility of the Contractor. The bagged material shall be loaded in drums except as noted previously and transported to a landfill authorized by the State Department of Health to accept material containing asbestos. In the event the bag is torn, the tear shall be immediately mended with duct tape and the bag placed into another bag and sealed, and the wrapped material covered with another wrap and sealed. The Contractor shall make all prior arrangements with the landfill.

## 3.13 LOCK DOWN

A. Prior to removal of the plastic barriers and final visual inspection, a compatible post removal (lockdown) encapsulant shall then be spray applied to all exposed flooring surfaces.

# TEN DAY NOTICE FORM

(sample) page 1

This two page form is to be filled in and filed with both state and regional officials a minimum of ten (10) working days before start of the asbestos abatement contract.

State of Hawaii
DEPARTMENT OF HEALTH

For Office Use	Only
Record No.	

IMPORTANT: continued on page 2

# NOTIFICATION OF DEMOLITION AND RENOVATION

Ref: Title 40 CFR 61 National Emission Standards for Hazardous Air Poliutants Asbestos NESHAP Revision; Final Rule, November 20, 1990

MAIL ORIGINAL #1 TO: State Department of Health Voise, Radiation & ndoor Air Guality Branch Acbestoe Abstement Office 131 Ala Moana Boulevard Jonquiui, Hawad 96313	COPY #2 TO: Asbestos Notifica NESHAP Region 75 Hawthorne St., San Francisco, C., Phone: (415) 744-	IX A-3-3 A 94105	COPY a Contrac	3: tor's Copy		
OFFICE USE ONLY: Operator Proj	ect #	Postmark Date		Date Recei	ved	
Notification/Record #		Date Entered/	Initials			
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II. OPERATIONS: D - Demo O	- Ordered Demo R - Renov	ration E - Emer. Res	novation:			
III. FACILITY INFORMATION: (C		Other Operator)				
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PAGE 1 OF 2

# TEN DAY NOTICE FORM

(sample)

page 2

This form is to be filled in and filed with both state and regional officials a minimum of ten (10) working days before start of the asbestos abatement contract.

## NOTIFICATION OF DEMOLITION AND RENOVATION, Continued

Course Provider:  WASTE TRANSPORTER: #1 Name Address City State Zip Contact Person: Telephone (	DESCRIPTION OF WORK PRACTICE AND ENGI	INEERING CONTROLS TO BE USE	D TO PREVENT EMISS	IONS OF ASBES
Course Provider:  WASTE TRANSPORTER: #1 Name Address City State Zip Contact Person: Telephone () WASTE TRANSPORTER: #2 Name Address City State Zip Contact Person: Telephone () WASTE DISPOSAL SITE: Name Contact Person: WASTE DISPOSAL SITE: Name Contact Person: Telephone ()  WASTE DISPOSAL SITE: Name Telephone ()  IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, IDENTIFY THE AGENCY BELOW: Name Title Authority: Date of Order (MM/DD/YY): Date Ordered to Begin (MM/DD/YY	AT THE DEMOLITION/RENOVATION SITE:			
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# VISITOR/WORKER ENTRY LOG (Sample)

**DATE** 

**PROJECT** 

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

NAME	EMPLOYER	TIM	TIM	*PURPOS	**TYPE OF
	Name, *Address, *Phone	EIN	Е	E OF	PPE ISSUED
			OUT	VISIT	
		<u> </u>			

<sup>\*</sup>NOT required of Contractor's employees

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

# EMPLOYEE ACKNOWLEDGMENT OF INSTRUCTION AND RELEASE FORM (sample)

Employee Name:				
Employee Address:				
Employee Telephone No.:				
DOH Asbestos Certification Number:				
Classification of Worker:				
Have you had in the past, or present, any respiratory problems?				
Yes No				
Have you worked in the past with asbestos or fiberglass type materials?				
Yes No				
The project you will be working on involves the use of asbestos and the removal of the asbestos from the building. Asbestos is considered a health hazard.				
The company is supplying all necessary safety clothing and working conditions required and necessary for your protection from asbestos hazard.				
You shall be instructed a commencement of the job on the required use of safety equipment, clothing, working conditions and procedures. These must be rigidly adhered to. Smoking is not permitted in the work areas. Disregarding of safety instructions shall result in instant dismissal.				
I acknowledge that safety instructions have been given to me by the company at my work commencement and I am thoroughly conversant with them and have answered the above questions truthfully.				
Signed: Employee				
Date:				

# ASBESTOS DISPOSAL FORM (sample)

	Date: .			
Owner or Operator of Landfill				
Name				
Address				
City	State	Zip		
Phone:				
Name of Landfill				
Name				
Address				
City	State	Zip		
Phone:				
Hauler				
Approximate Volume of Asbestos Received				
Type of Container Asbestos in				
Asbestos Container Labeled? YES NO				
I certify that the above statements are true and that the landfill has been approved for the disposal of asbestos. The delivered material will be covered within 6 inches (15 cm.) of not asbestos material within 24 hours.				
signed Landfill Owner-Op	erator			

END OF SECTION

## SECTION 13283

#### LEAD PAINT CONTROL MEASURES

### PART 1 - GENERAL

## 1.1 LEAD PAINT NOTES

- A. The paint on the existing structures at Wai'anapanapa State Park were tested for lead. The results (see Inspection Report for Asbestos and Lead-Based Paint) revealed that paint contains various levels of lead. The contractor shall assume any untested paint to contain lead. The contractor shall comply with the following:
- B. Contractor's employees disturbing and/or removing the paint must be informed that it contains lead and must have received the appropriate training in compliance with Federal and State lead standards.
- C. The contractor shall be responsible for his/her employees' personal protection, personal lead air monitoring and necessary records in accordance with HIOSH construction lead standards. The contractor must also conduct personal air monitoring for lead during this activity, unless the contractor has a valid negative exposure assessment for similar work.
- D. Paint in good condition need not be removed prior to selective demolition/renovation activities except where the activities create airborne dust such as drilling, saw cutting, or surface preparation for repainting (cracking, peeling, flaking). 6mil polyethylene must be placed in the work areas where these types of activities may occur to capture and contain the paint waste. Removal of lead paint shall follow wet methods to minimize dust and no chemical stripping of paint using methylene chloride shall be allowed. All paint waste must be containerized (DOT drum) and characterized for proper disposal (see item D).
- E. The paint chip/debris (separated out or mixed with other construction debris) must be TCLP (Toxicity Characteristic Leachability Product) tested by the contractor to determine if it should be disposed of as hazardous waste or regular construction debris. If determined to be hazardous waste, then the contractor shall submit to the State, documentation that the lead-containing waste removed from the work areas has been accepted by the mainland landfill owner.

F. The Contractor's Qualified Consultant (a third party independent industrial hygiene consultant hired by the General Contractor and not affiliated with the abatement contractor) shall conduct visual inspection of the lead abatement area to ensure that the area is clean and free of visible lead dust.

END OF SECTION

## SECTION 13288

#### TESTING AND AIR MONITORING

## PART 1 - GENERAL

# 1.1 SUMMARY

A. In performing this project, all possible safeguards, precautions and protective measures should be utilized to prevent exposure of any individual to asbestos and lead.

These specifications are based upon procedures and standards derived from U.S. regulatory agencies (EPA, OSHA, NIOSH) and the Hawaii State Division of Occupational Safety and Health as well as from industry and sound industrial hygiene practice. They must be followed to ensure that no measurable amount of asbestos fibers are released to the uncontrolled work and public areas.

- B. Testing, daily area air monitoring and visual inspections shall be provided by the Qualified Consultant hired by the Contractor for the purpose of:
  - 1. verifying compliance with the specifications and the applicable regulations listed in sections 13281 and 13283;
  - 2. Ensuring that the State's legally required documentation is collected;
  - 3. Providing engineering control during the project.

## 1.2 DEFINITIONS

- A. "ACM": asbestos containing materials.
- B. "Building representative(s)": The person or persons designated by the users of the building to act on their behalf.
- C. "Contractor": The construction firm engaged to remove, encapsulate and/or dispose of the ACM.
- D. "Industrial Hygienist": A Certified Industrial Hygienist (CIH) certified by the American Board of Industrial Hygiene who shall direct all air monitoring and project supervision.
- E. "Project Designer": The person of firm who prepared the plans and specifications to remove, encapsulate and dispose of the ACM.
- F. "Project Manager": The State employee responsible for administering the construction contract and ensuring that the work of the contractor is conducted

- according to the contract documents and in compliance with applicable laws, regulations, ordinance, etc.
- G. "Project Monitor": A member of the construction management team who enters the work area to set up the air monitoring device and then collects the various air samples to be sent to the laboratory for analysis.
- H. "Qualified Consultant": Consultant hired by the General Contractor who will perform air monitoring and inspection during abatement work and shall have the authority to initiate engineering controls. The Qualified Consultant will be accredited as a State of Hawaii Department of Health accredited Asbestos Project Monitor.

## 1.3 COORDINATION WITH OTHER SECTIONS

A. Coordinate with the State Inspector for the testing/air monitoring requirements included in Sections 1328, 13283 and all applicable Federal, State and local regulations

PART 2 PRODUCTS (Not Used)

## PART 3 - EXECUTION

## 3.1 GENERAL CONTRACTOR'S RESPONSIBILITIES

A. Testing and air monitoring to be supplied by the General Contractor.

## 3.2 CONTRACTOR RESPONSIBILITIES

- A. The Contractor shall be responsible for his employees' personnel protection, personal air monitoring and necessary records as required by OSHA (29 CFR 1910.145, 29 CFR 1926.1101, 29 CFR 1926.62), Hawaii State Law (HIOSH 12-145.1, 12-148.1) and all other applicable laws and as required in these specifications. The Contractor shall provide a final report with all required documentation to the State.
- B. The Contractor shall procure legally required reports for air monitoring as part of the contract. All air monitoring reports shall include all field data, laboratory reports, test results and other pertinent information about the daily work activities.
- C. Monitoring information developed by the Qualified Consultants activities while under contract with the General Contractor shall be for the use of the State
- D. The General Contractor shall be responsible for all costs associated with any additional air monitoring and testing which becomes necessary in order to follow up on work by the Contractor, rejected as not conforming to the requirements of this specification or current regulations.

E. The Contractor shall be responsible for the proper required notifications to the EPA and State of Hawaii Department of Health.

## 3.3 TESTING AND AIR MONITORING

- A. Duties of the Qualified Consultant.
  - 1. Photographic Record of Project: Record the asbestos abatement project with representative photos. All photos shall become the property of the State and are to be accompanied by a detailed log.
  - 2. Project Log: Maintain daily field reports detailing all key activities during abatement and make a summary of project activities to the project designer and the State project manager. Incorporate the contents of the daily field reports with other project data into a final project report.
  - 3. Visual Inspection of all Containment Areas: Perform regular inspection of all containment areas. Conduct inspections during the actual work performance of the contractor to document the work practices employed by the contractor and prior to air testing in each area to verify that all materials scheduled for abatement were removed and the area was properly cleaned.
- B. Air Monitoring: The Qualified Consultants on-site air monitoring specialists and industrial hygienists shall perform the following activities associated with this portion of the project:
  - 1. On-site environmental and personnel air monitoring as required by EPA, OSHA, and the project specifications (See methodology below).
  - 2. Laboratory analysis by PCM analysis using NIOSH 7400 method.
  - 3. Laboratory analysis by FAAS analysis using NIOSH 7082 method.
  - 4. Interface with project inspectors, building representatives, representatives of regulatory agencies, and project designers during site visits.
  - 5. Ensure that proper respiratory protection is utilized by all persons at the project site.
  - 6. Relay to the State any discrepancies in contractor's action with provisions of project specifications.
  - 7. Act quickly in case of emergencies with appropriate response.

#### 3.4 SAMPLING DESIGN

- A. The following is a typical sampling design per containment area during the actual construction. The number of samples and volume quantities may vary, depending on each project's specifications.
  - 1. Background Samples: Background baseline samples shall be taken prior to asbestos and lead abatement to establish pre-abatement airborne fiber concentration levels. Two high volume continuous flow samples shall be taken per estimated containment area. All work area samples shall be analyzed by the NIOSH 7400 method. All personal samples shall be analyzed in accordance with OSHA 29 CFR 1926.58. The reference TWA (time weighted average) shall be established one day prior to the masking and sealing operations.
  - 2. Work Area Samples: Low volume samples of 480 liters each shall be taken from both asbestos and lead work areas. Ambient air samples shall be taken in the work area for comparison to barrier samples in an effort to ensure that containment systems are secure and that the persons entering the work area are wearing proper respiratory protection. If monitoring inside and outside the abatement work area shows airborne concentrations have reached the predetermined specified TWA, the Qualified Consultant shall stop all work, notify the State immediately, have the Contractor correct the condition(s) causing the increase and ensure that the Contractor obtains the State's approval prior to restarting the removal work. At minimum one sample will be collected from the center of the work area, one sample upwind of the work area and two samples downwind of the work area for both asbestos and lead.
  - 3. Final Clearance Samples: Visual inspections will be conducted at the completion of the asbestos work. Clearance air samples will be required for all interior work.

#### 3.5 LABORATORY ANALYSIS

A. The Qualified Consultant shall maintain testing facilities in the vicinity of the project site. An industrial hygiene monitoring setup with high-volume and low-volume pumps, calibrators and all filtering needs shall be included in the facility. In addition all clearance asbestos air sample results shall be available within 12 hours of end of sampling time.

## 3.6 DAILY TESTING RECORDS

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

END OF SECTION