

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)

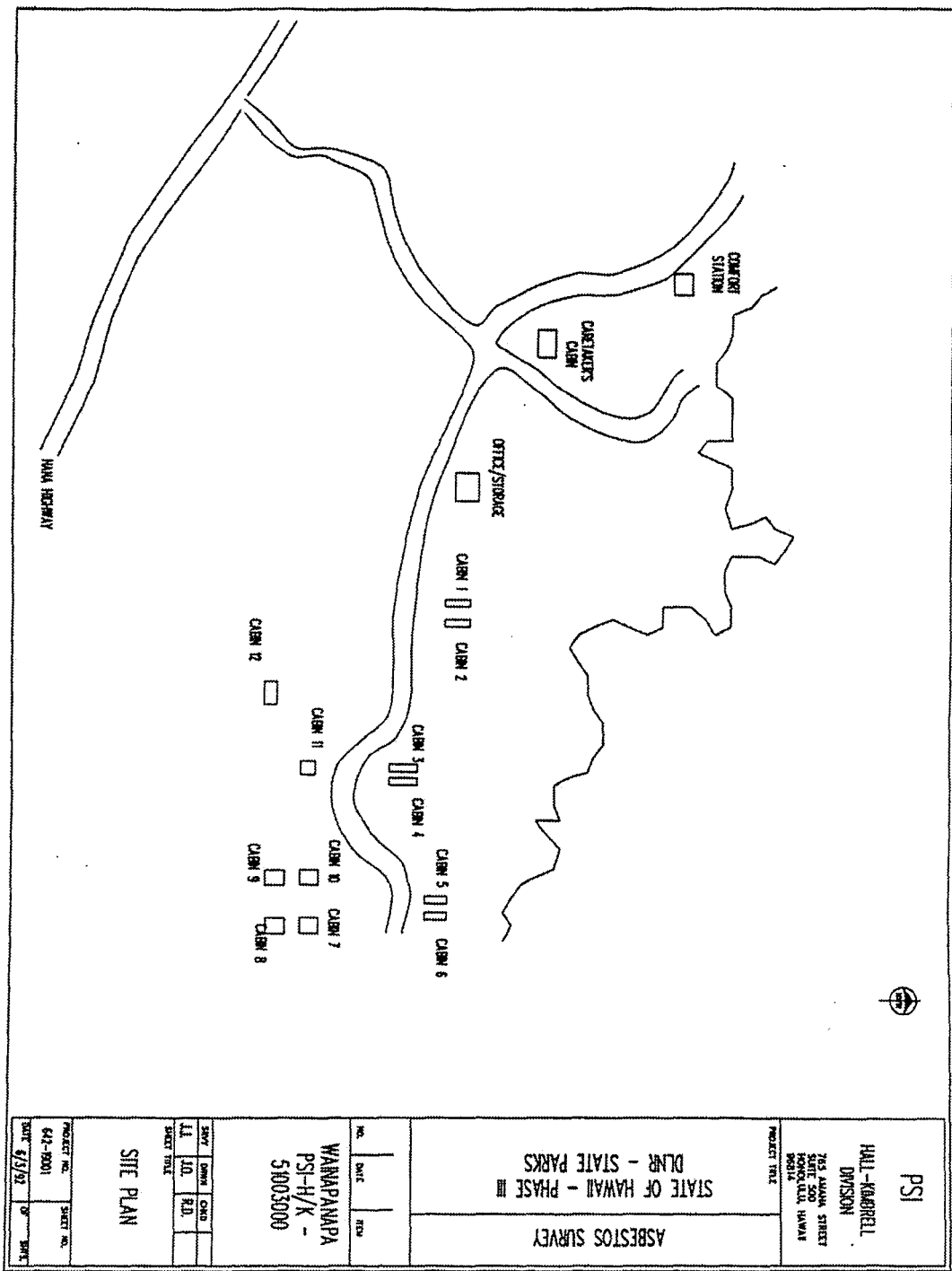
PART 3 - EXECUTION

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

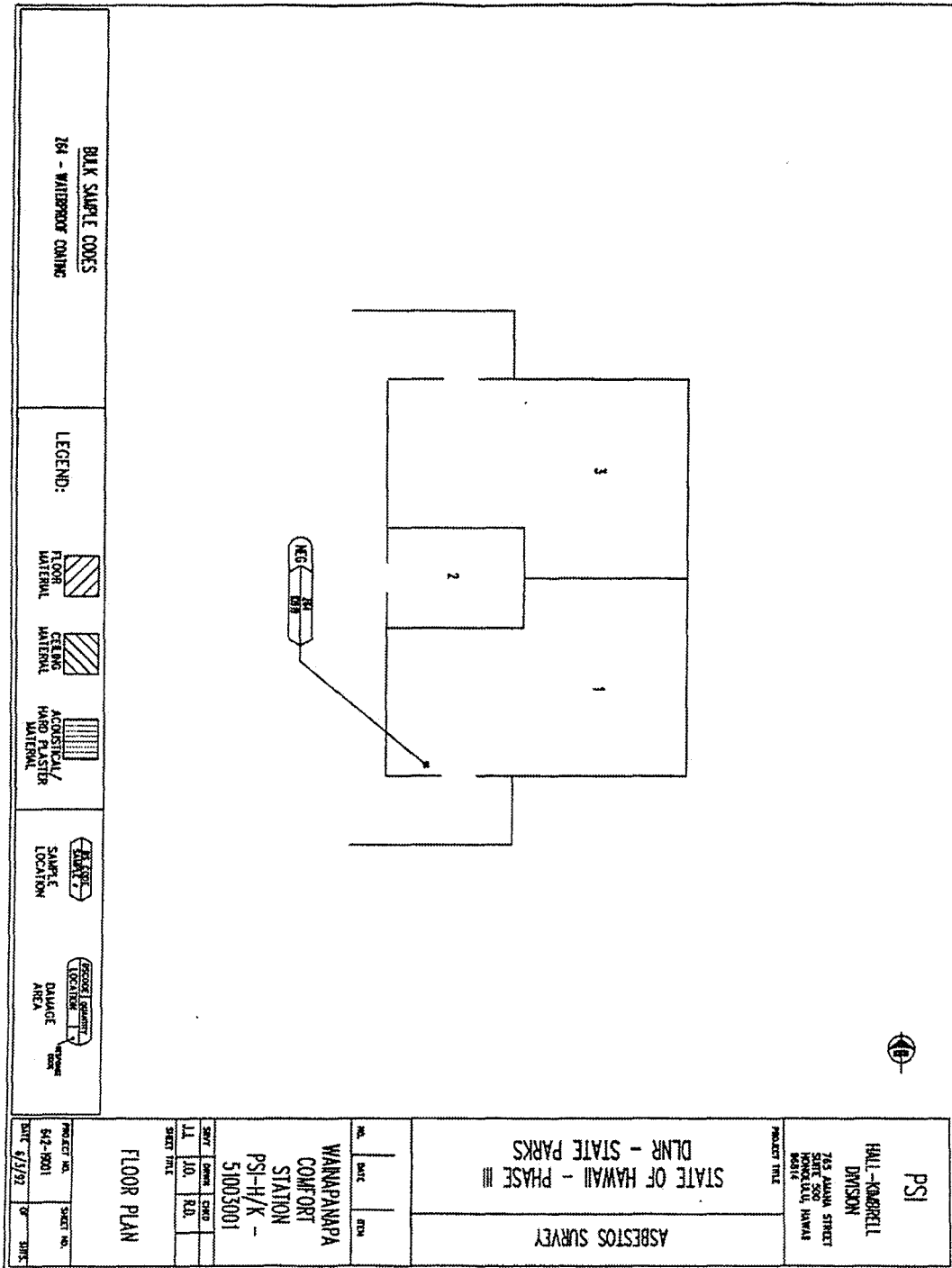
Existing Conditions –
Asbestos/Lead/Hazardous Material Survey



A-WAIPANAPA-0

PSI HALL-KARORELL DIVISION 765 PALAMA STREET SUITE 100 HONOLULU, HAWAII 96813		ASBESTOS SURVEY DLNR - STATE PARKS STATE OF HAWAII - PHASE III	
PROJECT TITLE NO. DATE REV.		WAIPANAPA PSI-H/K - 51003000	
SHEET NO. 642-18001	SHEET NO. 6/3/97	SHEET TITLE SITE PLAN	SHEET NO. DATE

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-3



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

Project Number: 64219001
 Building Number: 51003001
 Building Name: DLHR - Halepapaapa Comfort Station
 Address : TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 129
 Building Type: Restroom
 Year Constructed: 1918
 Date Inspected: 12/13/91
 Inspector: Ogrodny/Jeckman

LOCATION	SAMPLE GROUP NUMBER	GROUP OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	QAM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Waterproof Coating												
ARENA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Room 1, 3	1	1	waterproof coating		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0
MS# Sample # XASB												
1	10919											
AREA # 1 TOTALS										\$0	\$0	\$0
BUILDING # 51003001 TOTALS										\$0	\$0	\$0

A-WAIPANAPA COMFORT STATION-2

PSI/MALL-KIMBELL, INC.
ASBESTOS PETROGRAPHIC ANALYSIS

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

PAGE: 98
BUILDING #: 51003001
BUILDING: DLHR - Waipapanapa Comfort station

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	TOT ASB	ASBESTOS				
								CHRY	AMO	CRD	AMT	ACT
1	10919	0	PRIMARY	N	N	N	0	0	0	0	0	0

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

T = Trace

A-WAIPAPANAPA COMFORT STATION -3

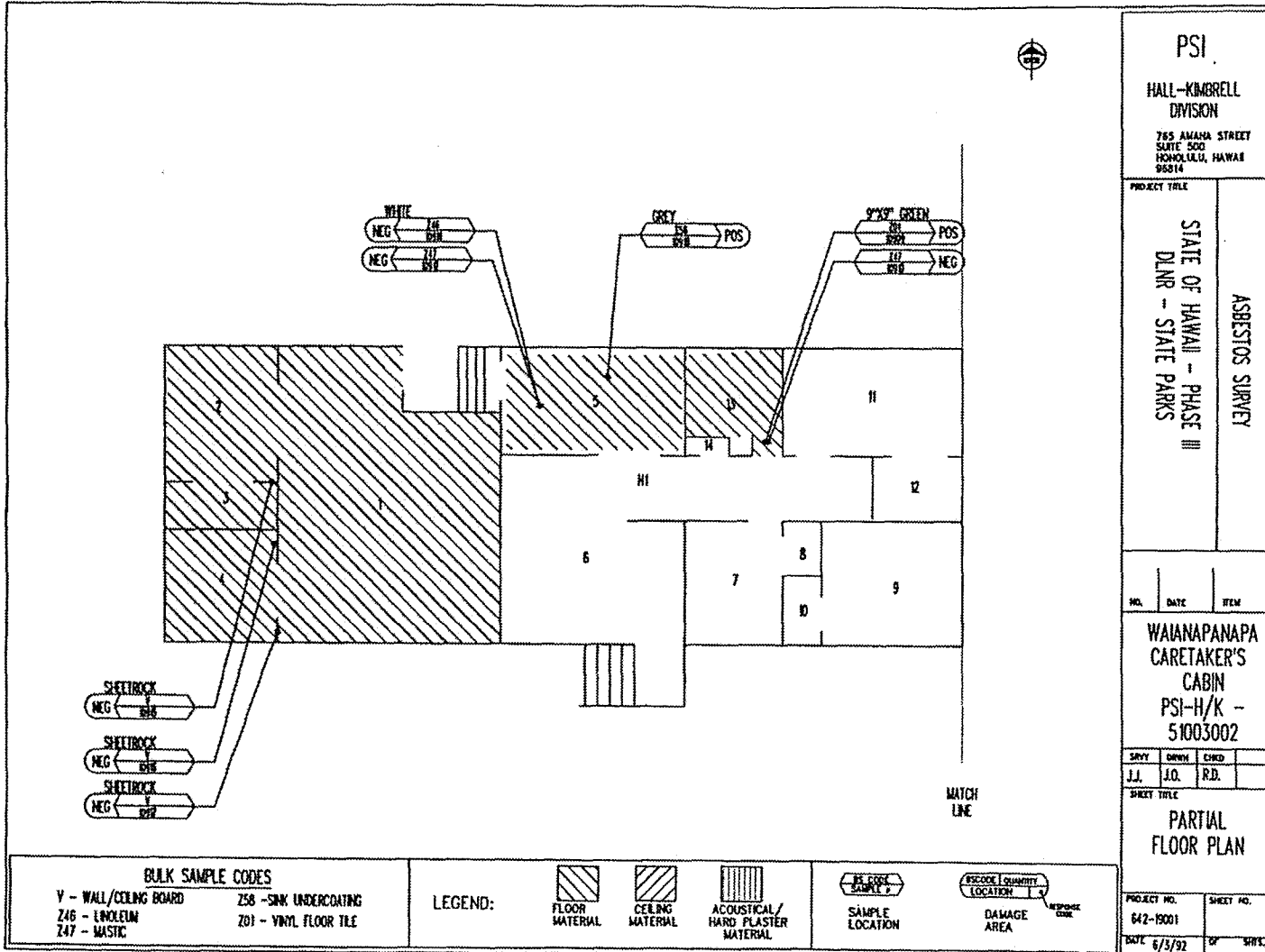
BUILDING NAME: DLHR - Uralanpanpa
Comfort Station

BUILDING I.D.: 51003001

PROJECT NUMBER : 642-19001

ROOM I.D.	Original	On Site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
			Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001		S			OO	OO	OO	OO					
		NS											
002		S											
		NS											
					N/A	N/A	N/A	N/A					
003		S			OO	OO	OO	OO					
		NS											

A-WAIPANAPA COMFORT STATION -4



A-WAIAPANAPA CARETAKER'S CABIN -1

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-8

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003002
 Building Name: DLNR - Waiānapanapa Caretaker's Cottage
 Address : THK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 130
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Ogrodny/Jackman

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: R												
Room 1, 2, 3, 4, 16 - tan 12"x12"	1	1	vinyl floor tile		0%	0 sq.ft.	OM1	0		\$0	\$0	\$0
MS# Sample # XASB												
1 10907 0 %												
Room 1, 2, 3, 4, 16 - tan 12"x12"	2	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0
MS# Sample # XASB												
2 10908 0 %												
Room 13 - see comments green 9"x9"	3	1	vinyl floor tile		7%	26 sq.ft.	OM1	14	IV	\$104	\$74	\$178
MS# Sample # XASB												
3 10909 7 %												
Room 13 - see comments green 9"x9"	4	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0

A-WAIANAPANAPA CARETAKER'S CABIN -3

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-10

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003002
 Building Name: DLNR - Waiianapanapa Caretaker's Cottage
 Address : TRK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 131
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Ogrodny/Jackson

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASS	QUANTITY	QM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
MS# Sample # XASB												
4 10910 0 %												
Rooms 5, 13 - white linoleum	5	1	linoleum		0%	0 sq.ft.	OM1	0		\$0	\$0	\$0
MS# Sample # XASB												
5 10911 0 %												
Rooms 5, 13 - white linoleum	6	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0
MS# Sample # XASB												
6 10912 0 %												
Rooms 1, 2, 3, 4, 16 - white	7	1	floor base		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0
MS# Sample # XASB												
7 10913 0 %												
Rooms 1, 2, 3, 4, 16 - white	8	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0

A-WAIANAPANAPA CARETAKER'S CABIN -4

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-11

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003002
 Building Name: DLNR - Waiapanapa Caretaker's Cottage
 Address : THK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

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

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OSM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
<p>MS# Sample # XASB</p> <p>8 10914 0 %</p> <p>9"x9" Green VFT and White Linoleum are damaged. Other flooring is new.</p> <p style="text-align: right;">AREA # 1 TOTALS \$104 \$74 \$178</p>												
<p>** Area 2 Wall/Ceiling Board AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A</p> <p>Room 1-4 - Sheetrock 9 3 wall/ceiling board 0% 0 sq.ft. OMZ 0 \$0 \$0 \$0</p> <p>MS# Sample # XASB</p> <p>9 10915 0 % 9 10916 0 % 9 10917 0 %</p> <p style="text-align: right;">AREA # 2 TOTALS \$0 \$0 \$0</p>												
<p>** Area 3 Misc. - Sink Undercoating AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A</p> <p>Room 5 - grey 10 1 sink undercoating 20% 1 each OMZ 14 1V \$90 \$289 \$379</p>												

A-WAIANAPANAPA CARETAKER'S CABIN -5

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-12

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003002
 Building Name: DLNR - Waianapanapa Caretaker's Cottage
 Address: TRK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase 111

Page: 133
 Building Type: Residence
 Year Constructed: URM
 Date Inspected: 12/13/91
 Inspector: Ogrodny/Jacobsen

LOCATION	SAMPLE GROUP NUMBER	HEMB OF SAMPB	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	QSM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
10	10918	20X										

AREA #	3 TOTALS	990	\$289	\$379
BUILDING # 51003002 TOTALS		\$194	\$363	\$557

A-WAIANAPANAPA CARETAKER'S CABIN -6

PSI/HALL-KIMBRELL ENVIRONMENTAL INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

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

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

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOWO	COLOR	TOT ASB	A S B E S T O S				ACT /TRE
								CHRY	AMO	CRO	ANT	
1	10907	0	PRIMARY	N	N	W	0	0	0	0	0	0
2	10908	0	PRIMARY	N	N	K	0	0	0	0	0	0
3	10909	0	PRIMARY	Y	Y	N	7	7	0	0	0	0
4	10910	0	PRIMARY	Y	Y	K	0	0	0	0	0	0
5	10911	0	PRIMARY	N	N	W	0	0	0	0	0	0
6	10912	0	PRIMARY	N	N	B	0	0	0	0	0	0
7	10913	0	PRIMARY	Y	Y	T	0	0	0	0	0	0
8	10914	0	PRIMARY	Y	Y	T	0	0	0	0	0	0
9	10915	0	PRIMARY	N	N	T	0	0	0	0	0	0
9	10916	0	PRIMARY	N	N	W	0	0	0	0	0	0
9	10917	0	PRIMARY	N	N	W	0	0	0	0	0	0
10	10918	0	PRIMARY	Y	Y	G	20	20	0	0	0	0

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

T = Trace

A-WAJANAPANAPA CARETAKER'S CABIN -7

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-14

Job No. F55B642B

BUILDING NAME: DLHR - Valampampa
Caretaker's Cottage

BUILDING I.D.: 51003002

PROJECT NUMBER : 642-19001

ROOM I.D.	Original	On site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
			Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S				H	H	H	H	F-18	R-2			
	NS				M								
002	S				H	H	H	H	F-18	R-2			
	NS				M								
003	S				H	H	H	H	F-18	R-2			
	NS				M			M					
004	S				H	H	H	H	F-18	R-2			
	NS				M								
005	S								G-2			J-6	
	NS				M			M					
006	S												
	NS				M			M	1/M				
007	S												
	NS				M			M					
008	S												
	NS				M			M					
009	S												
	NS				M			M					
010	S												
	NS				M			M					
011	S												
	NS				M			M					

A-WAIANAPANAPA CARETAKERS CABIN-8

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-15

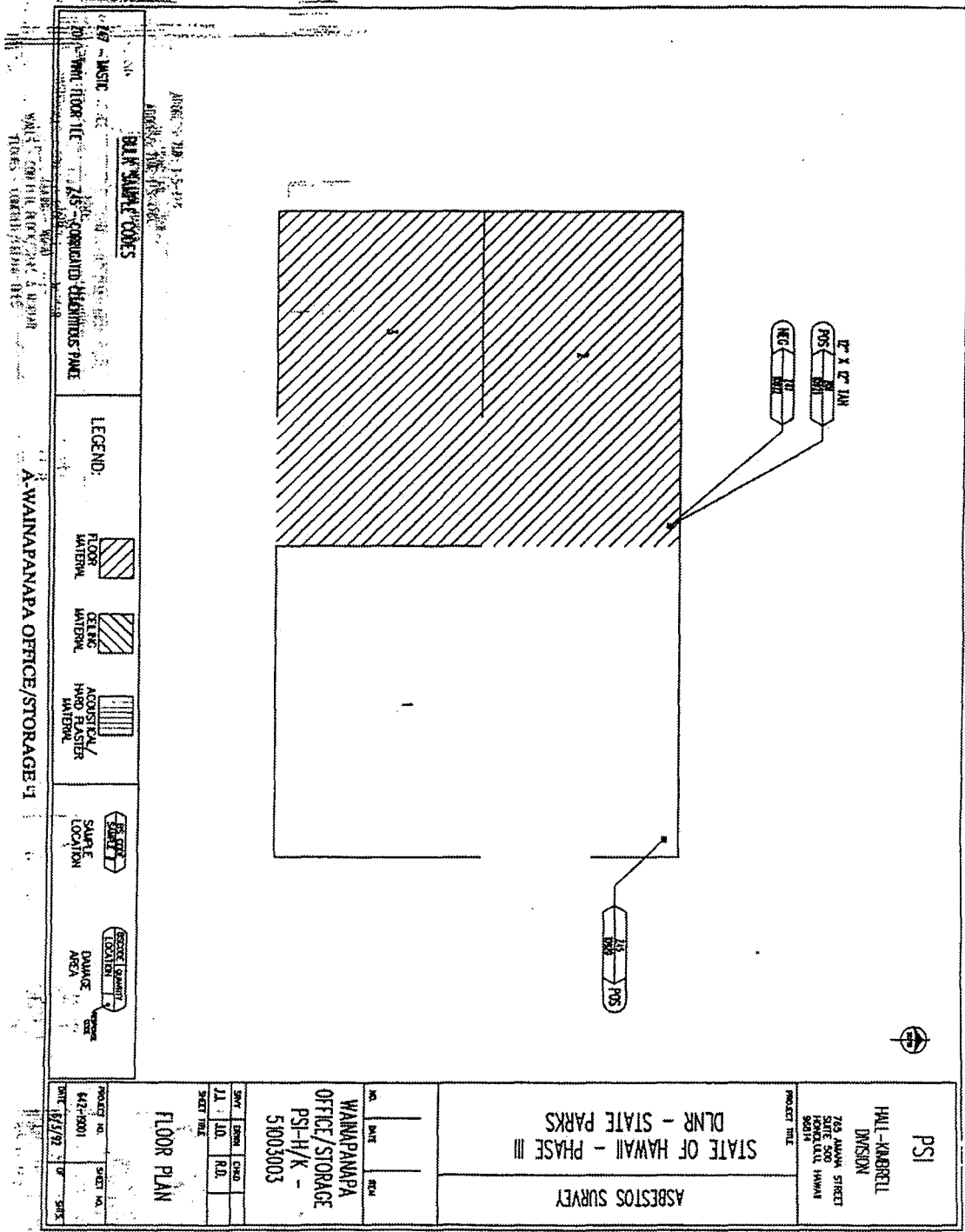
BUILDING NAME: OLVR - Waiapanapa
Caretaker's Cottage

BUILDING I.D.: 51003002

PROJECT NUMBER : 642-19001

ROOM I.D.	On Site	CEILING				WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base				
012	S												
	MS		M	M	M	M	M	M					
013	S								E-5/B-2				
	MS		M	M	M	M	M						
014	S												
	MS		M	M	M	M	M	M					
015	S												
	MS		M	M	M			K					
016	S								F-18 R-2				
	MS		M	M	M	M	M						
017	S												
	MS		M	M	M	M	M	K		HK			
R-1	S												
	MS		M	M	M	M	M	M					

A-WAIANAPANAPA CARETAKERS CABIN -9



Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-17

Project Number: 64210001
 Building Number: 51003003
 Building Name: DLNR - Wainapanapa Storage Bldg.
 Address: TRK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 134
 Building Type: Storage
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Ojrodny/Jackman

LOCATION	SAMPLE GROUP NUMBER	WING OF	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OSM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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** Area	1	Cementitious Panel										
AREA Damage Code:	5		Response Action: 7			Potential for Disturbance: 2			Reason for Damage: A			
All rooms - ceiling	1	1	corrugated cementitious panel		80%	432 sq.ft.	0M2	18	1V	\$3,430	\$2,449	\$5,879
HS# Sample # 2A5B												
1	10920	80%										
AREA # 1 TOTALS										\$3,430	\$2,449	\$5,879

** Area	2	Floor material										
AREA Damage Code:	5		Response Action: 7			Potential for Disturbance: 2			Reason for Damage: A			
Rooms 2, 3 - ten 12"x12"	2	1	vinyl floor tile		2%	200 sq.ft.	0M1	11	1V	\$800	\$566	\$1,366
HS# Sample # 2A5B												
2	10921	2%										
Rooms 2, 3 - ten 12"x12"	3	1	maetic		0%	0 sq.ft.	0M2	0		\$0	\$0	\$0
HS# Sample # 2A5B												
3	10922	0%										

A-WAINAPANAPA OFFICE/STORAGE-2

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

PSI/HALL-KIMBELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 100
 BUILDING #: 51003003
 BUILDING: DLIR - Wainapanapa Storage Bldg.

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	TOT ASB	ASBESTOS				
								CHRY	AMO	CRG	AMT	ACT /TRE
1	10920	0	PRIMARY	N	N	G	80	80	0	0	0	0
2	10921	0	PRIMARY	Y	Y	U	2	2	0	0	0	0
3	10922	0	PRIMARY	Y	Y	K	0	0	0	0	0	0

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

T = Trace

A-WAINAPANAPA OFFICE/STORAGE -4

BUILDING NAME: DLRR - Vaiternpenapa
Storage Bldg.

BUILDING I.D. : 51003003

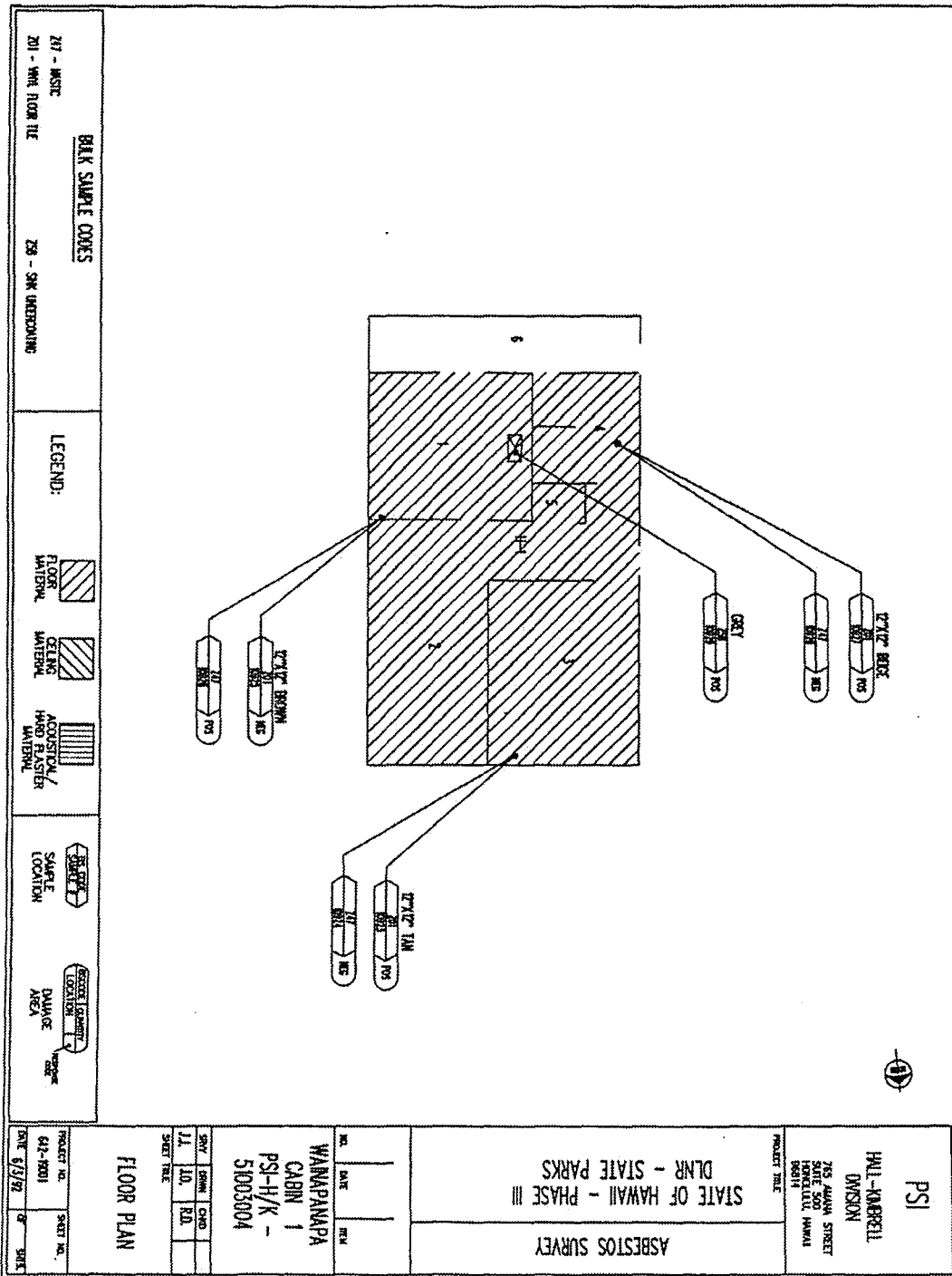
PROJECT NUMBER : 642-19001

ROOM I.D.	On Site	CEILING			WALLS			FLOOR	MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front				
001	B		S								
	MS		LL	U	U	U	U				K
002	S		S								F-18
	MS		LL	M	K	N/A					
003	S		S								F-18
	MS		LL	U	U	U	U				1

A-WAINAPANAPA OFFICE/STORAGE-5

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-21

Job No. F55B642B



Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-22

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003004
 Building Name: DLIN - Wainapanapa Rental Cabin #1
 Address: TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SON Phase III

Page: 136
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASS	QUANTITY	QOM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material												
AHERA Damage Codes: 5 Response Actions: 7 Potential for Disturbance: 2 Reason for Damage: A												
Room 2, 3, 5, N1 - ten 12"x12"		1	vinyl floor tile		2X	300 sq.ft.	OM1	13	IV	\$1,200	\$849	\$2,049
HS# Sample # XASB												
1	10923	2 X										
Room 2, 3, 5, N1 - ten 12"x12"		2	mastic		0X	0 sq.ft.	OM2	0		\$0	\$0	\$0
HS# Sample # XASB												
2	10924	0 X										
Room 1 - Brown 12"x12"		3	vinyl floor tile		0X	0 sq.ft.	OM1	0		\$0	\$0	\$0
HS# Sample # XASB												
3	10925	0 X										
Room 1 - Brown 12"x12"		4	mastic		2X	120 sq.ft.	OM2	13	IV	\$450	\$340	\$820

A-WAINAPANAPA CABIN 1-2

Project Number: 64219001
 Building Number: 51003004
 Building Name: DLH - Wainapanapa Rental Cabin #1
 Address : TRC 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SO# Phase III

Page: 137
 Building Type: Residence
 Year Constructed: UNK
 Date Inspected: 12/15/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAWS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	QDN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
MS#	Sample # XASB											
4	10926	2 X										
Room 4 - balge	12"x12"	5	1 vinyl floor tile		5X	50 sq.ft.	OM1	15	IV	\$200	\$142	\$342
MS#	Sample # XASB											
5	10927	5 X										
Room 4 - balge	12"x12"	6	1 mastic		0X	0 sq.ft.	OM2	0		\$0	\$0	\$0
MS#	Sample # XASB											
6	10928	0 X										
AREA # 1 TOTALS										\$1,800	\$1,331	\$3,211

Area	Misc. - Stik Undercoating	Response Action: 7	Potential for Disturbance: 2	Reason for Damage: A	Cost
Room 1 - grey	2	AHERA Damage Code: 5	20X	OM2 9 IV	\$289
	7	1 stik undercoating	1 each		\$90
					\$289
					\$379

A-WAINAPANAPA CABIN 1-3

Project Number: 64219001
 Building Number: 51003004
 Building Name: DLHR - Halescopewa Rental Cabin #1
 Address: TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 138
 Building Type: Residence
 Year Constructed: 1988
 Date Inspected: 12/13/91
 Inspector: Jackman/Ogrody

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMP'S	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	QAN CODE	EXP POT LEVEL	PRIORITY	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
7	10929	20x										

AREA # 2 TOTALS \$90 \$289 \$379

BUILDING # 51003004 TOTALS \$1,970 \$1,620 \$3,590

A-WAINAPANAPA CABIN 1-4

CLIENT: DAG - Asbestos Litigation Unit
 PROJECT #: 64219001 80H Phase III

PSI/HALL-KIRRELL ENVIRONMENTAL INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 94
 BUILDING #: 31003004
 BUILDING: DLRR - Wainapanapa Rental Cabin #1

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	ASBESTOS						
							TOT ASB	CHRY	AMO	CHO	AMT	ACT	/TNE
1	10923	0	PRIMARY	Y	Y	W	2	2	0	0	0	0	0
2	10924	0	PRIMARY	Y	Y	Y	0	0	0	0	0	0	0
3	10925	0	PRIMARY	N	N	T	0	0	0	0	0	0	0
4	10926	0	PRIMARY	N	N	T	2	2	0	0	0	0	0
5	10927	0	PRIMARY	N	N	T	5	5	0	0	0	0	0
6	10928	0	PRIMARY	N	N	K	0	0	0	0	0	0	0
7	10929	0	PRIMARY	Y	Y	G	20	20	0	0	0	0	0

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

T = Trace

A-WAINAPANAPA CABIN 1-5

BUILDING NAME: DLNR - Halanapanga
Kereta Cabin #1

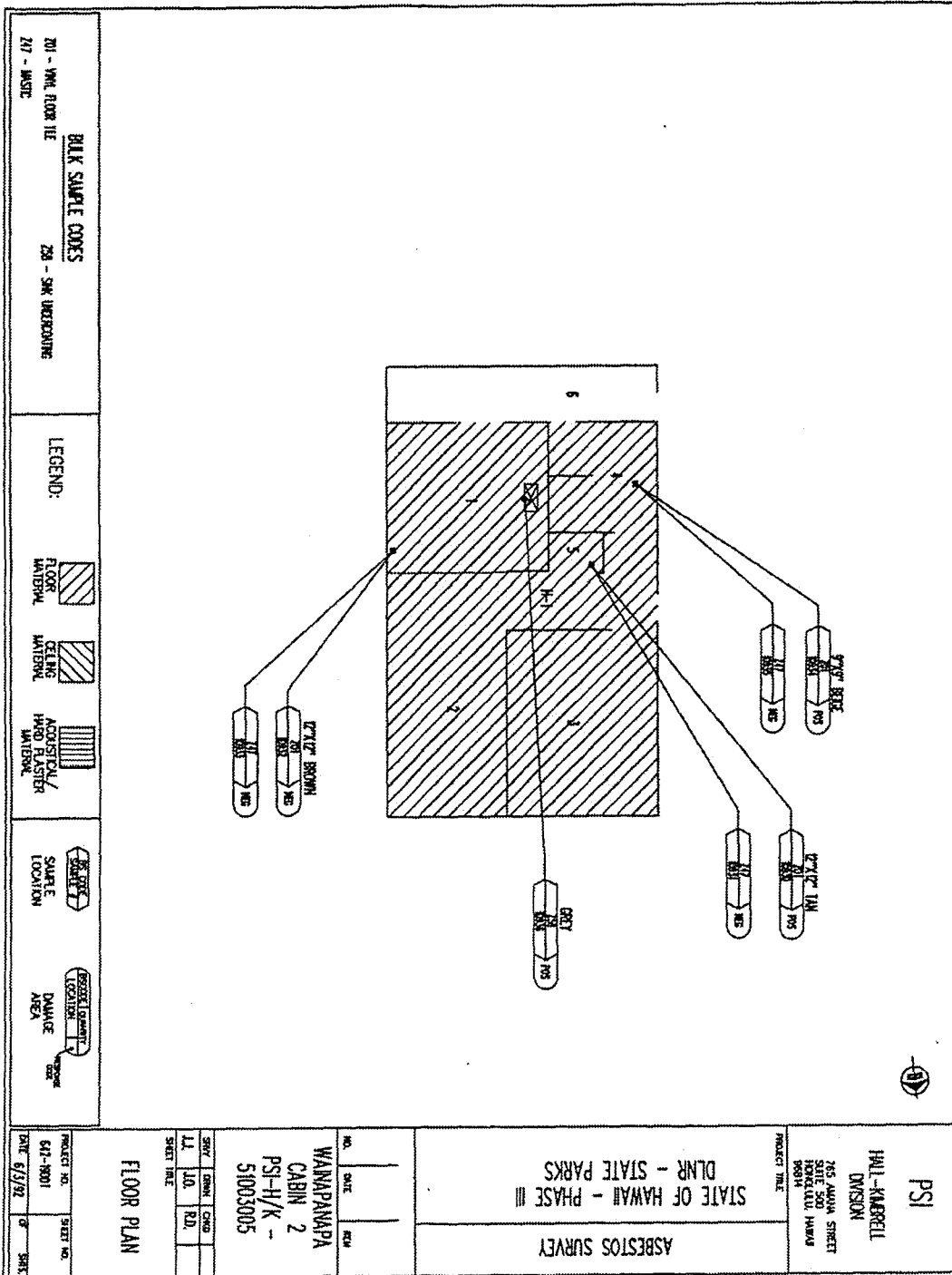
BUILDING I.D.: 51003004

PROJECT NUMBER : 642-19001

Original	On Site	CEILING				WALLS			FLOOR		MECH.	MISC.	SAMPLER/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base				
001	S											J-6	
	NS		M	M	M	M	M						
002	S									F-18			
	NS		M	M	M	M	M						
003	S									F-18			
	NS		M	M	M	M	M						
004	S									F-7			
	NS		M	M	M	M	M						
005	S									F-18			
	NS		M	M	M	M	M						
006	S												
	NS		M	M	M	M	M						
N-1	S									F-18			
	NS		M	M	M	M	M						

A-WAINAPANAPA CABIN 1-6

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-27



Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-28

Project Number: 64219001
 Building Number: S1003005
 Building Name: DLRH - Halepapepa Rental Cabin #2
 Address: 1 THX 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SQH Phase III

Page: 139
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/15/91
 Inspector: Jackson/Degroby

LOCATION	SAMPLE GROUP MEMBER	MEMB OF SAMP	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	CRN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material												
ASBESTOS Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Room 2, 3, 5, HI - ten 12"x12"	1	1	vinyl floor tile		20%	120 sq.ft.	OM1	11	IV	\$480	\$350	\$820
HS# Sample # XASB												
1	10930	20%										
Room 2, 3, 5, HI - ten 12"x12"	2	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0
HS# Sample # XASB												
2	10931	0%										
Room 1 - brown 12"x12"	3	1	vinyl floor tile		0%	0 sq.ft.	OM1	0		\$0	\$0	\$0
HS# Sample # XASB												
3	10932	0%										
Room 1 - brown 12"x12"	4	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0

A-WAINAPANAPA CABIN 2-2

Project Number: 64219001
 Building Number: 51003005
 Building Name: DLNR - Wainapanapa Rental Cabin #2
 Address : TMC 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 140
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackman/Dgrody

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&N CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
NS# Sample # XASB 4 10933 0 %												
Room 4 - beige 9"x9"	5	1	vinyl floor tile		20%	50 sq.ft.	OH1	11	IV	\$200	\$142	\$342
NS# Sample # XASB 5 10934 20%												
Room 4 - beige 9"x9"	6	1	mastic		0%	0 sq.ft.	OH2	0		\$0	\$0	\$0
NS# Sample # XASB 6 10935 0 %												
							AREA #	1	TOTALS	\$680	\$482	\$1,162
** Area 2 Misc. - sink Undercoating AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Room 1 - grey	7	1	sink undercoating		20%	1 each	OH2	9	IV	\$90	\$289	\$379

A-WAINAPANAPA CABIN 2-3

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

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003005
 Building Name: DLH - Wainapouapa Rental Cabin #2
 Address: Trk 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 141
 Building Type: Residence
 Year Constructed: 1910
 Date Inspected: 12/13/91
 Inspector: Jackson/Dugrody

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMP S	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OSM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
MS#	Sample #	MS#S										
7	10936	20%										

AREA #	2	TOTALS	\$90	\$289	\$379
BUILDING #	51003005	TOTALS	\$770	\$771	\$1,541

A-WAINAPANAPA CABIN 2-4

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

PSI/HALL-KIRRELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 102
 BUILDING #: 51003005
 BUILDING: DLK - Wainapanapa Rental Cabin #2

GROUP #	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	TOI ASB	A S B E S T O S					ACT /TNE	
								CHRY	AMO	CRG	AWT			
1	10930	0	PRIMARY	Y	Y	T	20	20	0	0	0	0	0	0
2	10931	0	PRIMARY	Y	Y	K	0	0	0	0	0	0	0	0
3	10932	0	PRIMARY	Y	Y	R	0	0	0	0	0	0	0	0
4	10933	0	PRIMARY	N	N	B	0	0	0	0	0	0	0	0
5	10934	0	PRIMARY	Y	Y	T	20	20	0	0	0	0	0	0
6	10935	0	PRIMARY	Y	Y	K	0	0	0	0	0	0	0	0
7	10936	0	PRIMARY	Y	Y	G	20	20	0	0	0	0	0	0

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

Y = Trace

A. WAINAPANAPA CABIN 2-5

BUILDING NAME: DLRR - Wainapanapa
Rental Cabin #2

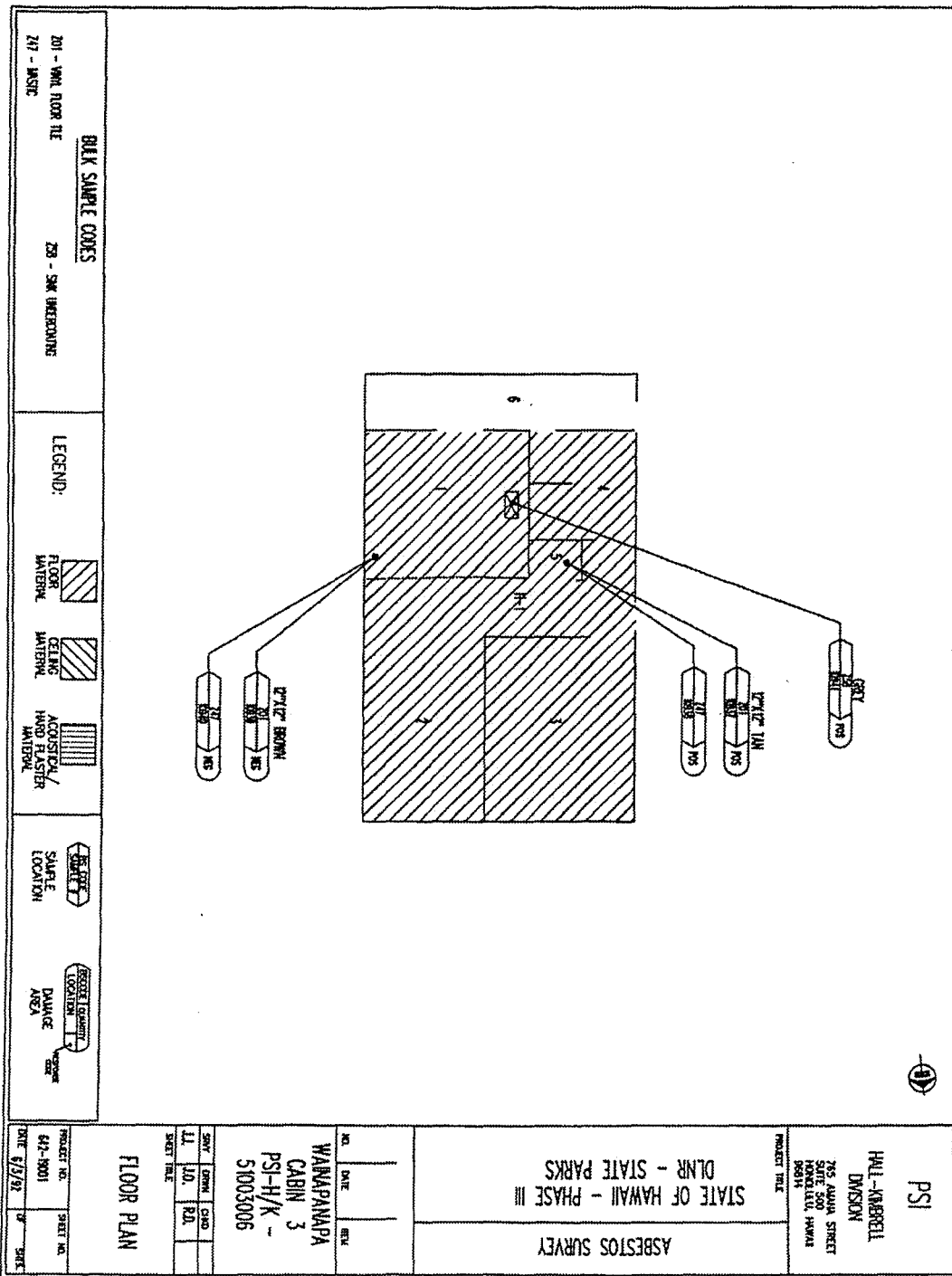
BUILDING I.D.: 51003005

PROJECT NUMBER : 642-19001

ROOM I.D.	On site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S							F-16			J-6	
002	S							F-18				
003	S							F-18				
004	S							E-7				
005	S							F-18				
006	S											
H-1	S							F-18				

A-WAINAPANAPA CABIN 2-6

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-33



Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-34

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003006
 Building Name: DLNR - Wainapanapa Rental Cabin #3
 Address: TRK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

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

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	GEM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Rooms 2, 3, 5, HI - tan 12"x12"	1	1	vinyl floor tile		5%	300 sq.ft.	OH1	11	IV	\$1,200	\$849	\$2,049
NS#	Sample #	XASB										
1	10937	5 %										
Rooms 2, 3, 5, HI - tan 12"x12"	2	1	mastic		5%	300 sq.ft.	OH2	11	IV	\$1,200	\$849	\$2,049
NS#	Sample #	XASB										
2	10938	5 %										
Rooms 1, 4 - brown 12"x12"	3	1	vinyl floor tile		0%	0 sq.ft.	OH1	0		\$0	\$0	\$0
NS#	Sample #	XASB										
3	10939	0 %										
Rooms 1, 4 - brown 12"x12"	4	1	mastic		0%	0 sq.ft.	OH2	0		\$0	\$0	\$0

A-WAINAPANAPA CABIN 3-2

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

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003006
 Building Name: DLNR - Wainapanapa Rental Cabin #3
 Address: TRK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 143
 Building Type: Residence
 Year Constructed: UNK
 Date Inspected: 12/13/91
 Inspector: Jackson/Djordjevic

LOCATION	SAMPLE GROUP NUMBER	NAME OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	ORM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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MS# Sample # 245B
 4 10940 0%

AREA # 1 TOTALS \$2,400 \$1,698 \$4,098

** Area	2 Misc. - Sink Undercoating	Response Action: 7	Potential for Disturbance: 2	Reason for Damage: A
Room 1 - grey	5	1 sink undercoating	10%	1 each ORZ 9 TV \$90 \$289 \$379
MS# Sample # 245B				
5 10941 10%				

AREA # 2 TOTALS \$90 \$289 \$379

BUILDING # 51003006 TOTALS \$2,490 \$1,987 \$4,477

A-WAINAPANAPA CABIN 3-3

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

PSI/MILL-KIMBELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 103
 BUILDING #: 51005006
 BUILDING: DLR - Wainapanapa Rental Cabin #3

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	NONG	COLOR	ASBESTOS					
							TOT ASB	CHRY	AMO	CRG	ANT	ACT /TBE
1	10937	0	PRIMARY	Y	Y	T	5	5	0	0	0	0
2	10938	0	PRIMARY	N	N	B	5	5	0	0	0	0
3	10939	0	PRIMARY	Y	Y	B	0	0	0	0	0	0
4	10940	0	PRIMARY	N	N	B	0	0	0	0	0	0
5	10941	0	PRIMARY	Y	Y	B	10	10	0	0	0	0

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

T = Trace

A-WAINAPANAPA CABIN 3-4

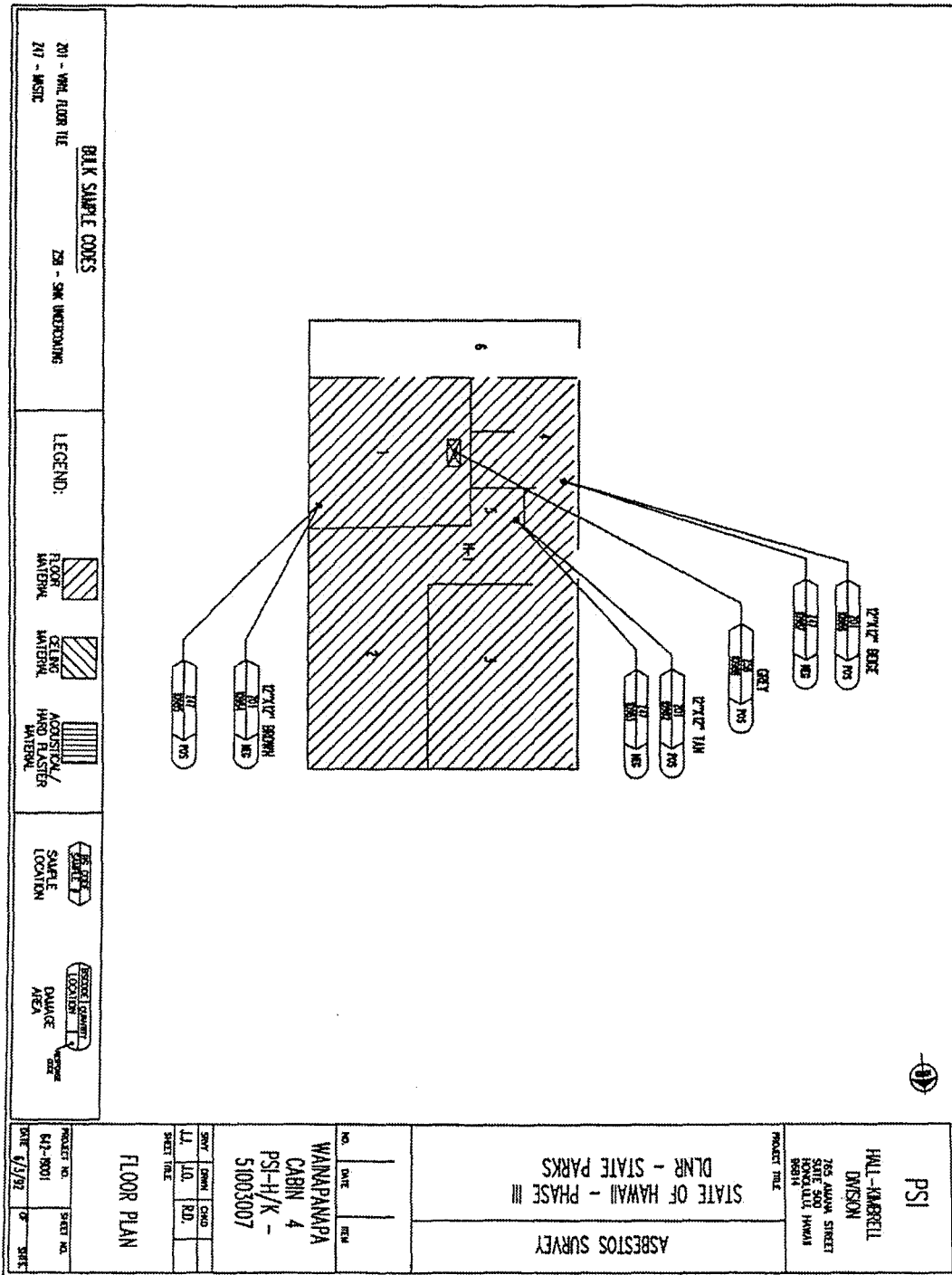
BUILDING NAME: OLHR - Vailanpanapa
Rental Cabin #3

BUILDING I.D.: 51003066

PROJECT NUMBER : 642-19001

ROOM I.D.	On Site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S							F-16			J-6	FROM 2
	NS		M	M	M	M						
002	S							F-18				FROM 1
	NS		M	M	M	M						FROM 1
003	S							F-18				
	NS		M	M	M	M						
004	S							F-16				
	NS		M	M	M	M						
005	S							F-18				
	NS		M	M	M	M						
006	S											
	NS		M	M	M	M						FROM 1
H-1	S							F-18				
	NS		M	M	M	M						FROM EXT.

A-WAINAPANAPA CABIN 3-5



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

Job No. F55B642B

Project Number: 64219001
 Building Number: 51003507
 Building Name: DLNR - Waiianapapa Rental Cabin #4
 Address: 1 TRK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SON Phase III

Pages: 144
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP	MMSB OF RUBBER SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OHM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material												
Room 2, 3, 5, H1 - tan 12"x12"	1	1	vinyl floor tile		2%	300 sq.ft.	OH1	13	IV	\$1,200	\$869	\$2,069
Reason for Damages: HF Potential for Disturbance: 2												
AREDA Damage Codes: 5 Response Actions: 7												
MSF Sample # XASB												
1 10982 2 X												
Room 2, 3, 5, H1 - tan 12"x12"	2	1	mastic		0%	0 sq.ft.	OH2	0		\$0	\$0	\$0
MSF Sample # XASB												
2 10985 0 X												
Room 1 - Brown 12"x12"	3	1	vinyl floor tile		0%	0 sq.ft.	OH1	0		\$0	\$0	\$0
MSF Sample # XASB												
3 10984 0 X												
Room 1 - Brown 12"x12"	4	1	mastic		10%	120 sq.ft.	OH2	13	IV	\$480	\$360	\$840
TOTAL COSTS												
												\$2,069

A-WAINAPANAPA CABIN 4-2

Project Number: 64219001
 Building Number: 51003007
 Building Name: DLNR - Wainapanapa Rental Cabin #4
 Address : TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 145
 Building Type: Residence
 Year Constructed: UNK
 Date Inspected: 12/13/91
 Inspector: Jackman/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	MS#	MATERIAL DESCRIPTION	PIPE ID	X ASS	QUANTITY	OHM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
Room 4 - beige 12"x12"	5	1	vinyl floor tile		2X	50 sq.ft.	OH1	13	IV	\$200	\$142	\$342
MS# Sample # XASS												
4	10985	10X										
Room 4 - beige 12"x12"	6	1	maetic		0X	0 sq.ft.	OHZ	0		\$0	\$0	\$0
MS# Sample # XASS												
6	10987	0 X										
AREA # 1 TOTALS										\$1,880	\$1,331	\$3,211

Area	Misc. - Sink Undercoating	Response Action:	Potential for Disturbance:	Reason for Damage:	Area #	Area #	Area #	Area #	Area #	Area #	Area #	Area #
Room 1 - grey	7	1	sink undercoating	20X	1	each	OHZ	14	IV	\$90	\$289	\$379
AREA # 2 TOTALS										\$1,880	\$1,331	\$3,211

A-WAINAPANAPA CABIN 4-3

Project Number: 04219001
 Building Number: 51003007
 Building Name: OLR - Waiampapa Rental Cabin #4
 Address : TRK 1-3-05109
 Nauli, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 146
 Building Type: Residence
 Year Constructed: URM
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrocky

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMP	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OHM CODE	EXP POT LEVEL	PRIORITTY	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
NSF	Sample #	2489										
7	10988	20%										

AREA #	2	TOTALS	\$00	\$289	\$379
BUILDING #	51003007	TOTALS	\$1,970	\$1,620	\$3,590

A-WAINAPANAPA CABIN 4-4

CLIENT: D&D - Asbestos Litigation Unit
 PROJECT #: 66219001 SSM Phase III

PSI/MALL-KINDRELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

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

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	A S B E S T O S						
							TOT ASB	CHRY	AMO	CRD	AMT	ACT /TNE	
1	10982	0	PRIMARY	Y	Y	T	2	2	0	0	0	0	0
2	10983	0	PRIMARY	Y	Y	Y	0	0	0	0	0	0	0
3	10984	0	PRIMARY	Y	Y	T	0	0	0	0	0	0	0
4	10985	0	PRIMARY	N	N	T	10	10	0	0	0	0	0
5	10986	0	PRIMARY	Y	Y	T	2	2	0	0	0	0	0
6	10987	0	PRIMARY	Y	Y	B	0	0	0	0	0	0	0
7	10988	0	PRIMARY	Y	Y	G	20	20	0	0	0	0	0

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

T = Trace

A-WAINAPANAPA CABIN 4-5

BUILDING NAME: DLRR - Uaiampanga
 Rental Cabin #4

BUILDING I.D.: 51003007

PROJECT NUMBER : 642-19001

ROOM I.D.	Original	On Site	CEILING				WALLS			FLOOR		RECH.	MISC.	SAMPLE/COMMENTS
			Substr.	Surface	Right	Rear	Left	Front	Material	Base				
001	S												J-6	FROM 2
	MS													
002	S													FROM 1
	MS													
003	S													
	MS													
004	S													
	MS													
005	S													
	MS													
006	S													
	MS													
R-1	S													FROM 1 FROM EXT.
	MS													

A-WAINAPANAPA CABIN 4-6

Existing Conditions –
 Asbestos/Lead/Hazardous Material Survey
 13280-44

Project Number: 64219001
 Building Number: 51003008
 Building Name: DLHR - Waiwapepepa Rental Cabin #5
 Address: 1 THX 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SON Phase III

Page: 147
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrody

LOCATION	SAMPLE GROUP NUMBER	HEMB OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	DBM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material												
AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Room 2, 3, 5, HI - ten 12"x12"	1	1	vinyl floor tile		15%	300 sq.ft.	DM1	11	IV	\$1,200	\$849	\$2,049
NSF Sample # 2A5B												
Room 2, 3, 5, HI - ten 12"x12"	1	10942	15%									
NSF Sample # 2A5B												
Room 2, 3, 5, HI - ten 12"x12"	2	1	maetic		0%	0 sq.ft.	DM2	0		\$0	\$0	\$0
NSF Sample # 2A5B												
Room 2 10943	2	10943	0%									
NSF Sample # 2A5B												
Room 1 - Brown 12"x12"	3	1	vinyl floor tile		0%	0 sq.ft.	DM1	0		\$0	\$0	\$0
NSF Sample # 2A5B												
Room 1 10944	3	10944	0%									
NSF Sample # 2A5B												
Room 1 - Brown 12"x12"	4	1	maetic		0%	0 sq.ft.	DM2	0		\$0	\$0	\$0

A-WAINAPANAPA CABIN 5-2

Project Number: 64219001
 Building Number: 51003008
 Building Name: DLNR - Wainapanapa Rental Cabin #5
 Address : TMC 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 148
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackman/Ogrody

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
NS# Sample # %ASB 4 10945 0 %												
Room 4 - beige 12"x12"	5	1	vinyl floor tile		2%	50 sq.ft.	OH1	11	IV	\$200	\$142	\$342
NS# Sample # %ASB 5 10946 2 %												
Room 4 - beige 12"x12"	6	1	mastic		2%	50 sq.ft.	OH2	11	IV	\$200	\$142	\$342
NS# Sample # %ASB 6 10947 2 %												
							AREA #	1	TOTALS	\$1,600	\$1,133	\$2,733
** Area	2	Misc. - Sink Undercoating		ANERA Damage Code: 5		Response Action: 7	Potential for Disturbance: 2		Reason for Damage: A			
Room 1 - grey	7	1	sink undercoating		20%	1 each	OH2	9	IV	\$90	\$289	\$379

A-WAINAPANAPA CABIN 5-3

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-47

Job No. F55B642B

PSI/HALL-KIMBRELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

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

PAGE: 105
 BUILDING #: 51003008
 BUILDING: DLNR - Wainapanapa Rental Cabin #5

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	TOT ASB	A S B E S T O S				ACT /TRE
								CHRY	AMO	CRO	AMT	
1	10942	0	PRIMARY	Y	Y	T	15	15	0	0	0	0
2	10943	0	PRIMARY	Y	Y	B	0	0	0	0	0	0
3	10944	0	PRIMARY	Y	Y	B	0	0	0	0	0	0
4	10945	0	PRIMARY	N	N	T	0	0	0	0	0	0
5	10946	0	PRIMARY	Y	Y	T	2	2	0	0	0	0
6	10947	0	PRIMARY	N	N	T	2	2	0	0	0	0
7	10948	0	PRIMARY	Y	Y	G	20	20	0	0	0	0

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

T = Trace

A-WAINAPANAPA CABIN 5-5

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-49

Job No. F55B642B

BUILDING NAME: DLNR - Lailangperapa
Rental Cabin #5

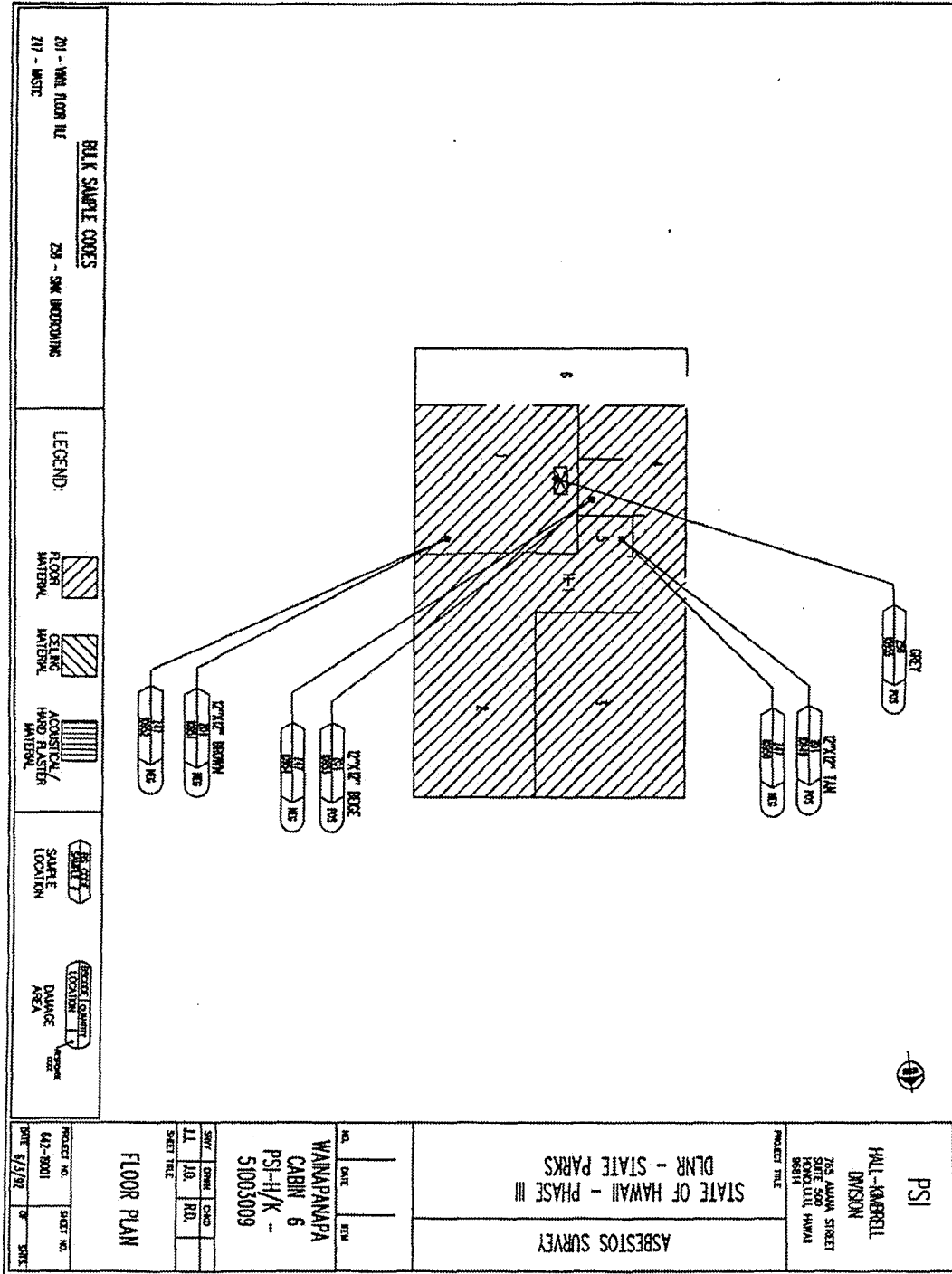
BUILDING I.D.: 51003008

PROJECT NUMBER : 642-19001

ROOM I.D.	On Site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S										J-6	FROM 2
	MS											
002	S											FROM 1
	MS											
003	S											
	MS											
004	S											
	MS											
005	S											
	MS											
006	S											
	MS											FROM 1
R-1	S											FROM EXT.
	MS											

A-WAINAPANAPA CABIN 5-6

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-50



Existing Conditions –
 Asbestos/Lead/Hazardous Material Survey
 13280-51

Project Number: 64219001
 Building Number: 51003009
 Building Name: DLNR - Wainapanapa Rental Cabin #6
 Address : TNK 1-3-05:09
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

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

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPS	MATERIAL DESCRIPTION	PIPE ID	% ASS	QUANTITY	O&M CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material AHERA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Rooms 2, 3, 5, H1 - tan 12"x12"	1	1	vinyl floor tile		7%	300 sq.ft.	OM1	11	IV	\$1,200	\$849	\$2,049
NS#	Sample #	% ASS										
1	10949	7 %										
Rooms 2, 3, 5, H1 - tan 12"x12"	2	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0
NS#	Sample #	% ASS										
2	10950	0 %										
Room 1 - brown 12"x12"	3	1	vinyl floor tile		0%	0 sq.ft.	OM1	0		\$0	\$0	\$0
NS#	Sample #	% ASS										
3	10951	0 %										
Room 1 - brown 12"x12"	4	1	mastic		0%	0 sq.ft.	OM2	0		\$0	\$0	\$0

Project Number: 64219001
 Building Number: 51003009
 Building Name: DLNR - Wainapanapa Rental Cabin #6
 Address: TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SCH Phase III

Page: 151
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	ROOM OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OMR CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
----------	---------------------	-----------------	----------------------	---------	-------	----------	----------	---------	----------------	---------------	-------------------	-------------

NS# Sample # XASB
 4 10952 0 %

Room 4 - beige 12"x12" 5 1 vinyl floor tile 2% 50 sq. ft. OMI 11 IV \$200 \$142 \$342

NS# Sample # XASB
 5 10953 2 %

Room 4 - beige 12"x12" 6 1 mastic 0% 0 sq. ft. OMZ 0 0 \$0 \$0 \$0

NS# Sample # XASB
 6 10954 0 %

AREA # 1 TOTALS \$1,400 \$991 \$2,391

** Area	Misc. - sink Undercoating	Response Action:	Potential for Disturbance:	Reason for Damage:								
Room 1 - grey	2 Misc. - sink Undercoating AHERA Damage Code: 5	7	10X	2	1	IV	\$90	\$289				\$379

A-WAINAPANAPA CABIN 6 -3

Project Number: 66219001
 Building Number: 51003009
 Building Name: DLR - Wainapanapa Rental Cabin #6
 Address : TRX 1-3-05:09
 Keolu, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 152
 Building Type: Residence
 Year Constructed: 1961
 Date Inspected: 12/15/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	MANO OF SAMPs	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	QDN CODE	EXP POT LEVEL	PRIORITY	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
	MS#	Sample #	XASB									
	7	10995	10X									

AREA #	2	TOTALS	\$90	\$289	\$379
BUILDING #	51003009	TOTALS	\$1,490	\$1,280	\$2,770

A-WAINAPANAPA CABIN 6-4

PSI/HALL-KIMBRELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

CLIENT: DAG - Asbestos Litigation Unit
 PROJECT #: 64219001 604 Phase III

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

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	TOT ASB	A S B E S T O S				ACT /TRE
								CHRY	AMO	CRO	ANT	
1	10949	0	PRIMARY	Y	Y	T	7	7	0	0	0	0
2	10950	0	PRIMARY	Y	Y	B	0	0	0	0	0	0
3	10951	0	PRIMARY	Y	Y	B	0	0	0	0	0	0
4	10952	0	PRIMARY	N	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	Y	B	0	0	0	0	0	0
7	10955	0	PRIMARY	Y	Y	G	10	10	0	0	0	0

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

T = Trace

A-WAINAPANAPA CABIN 6-5

Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-55

Job No. F55B642B

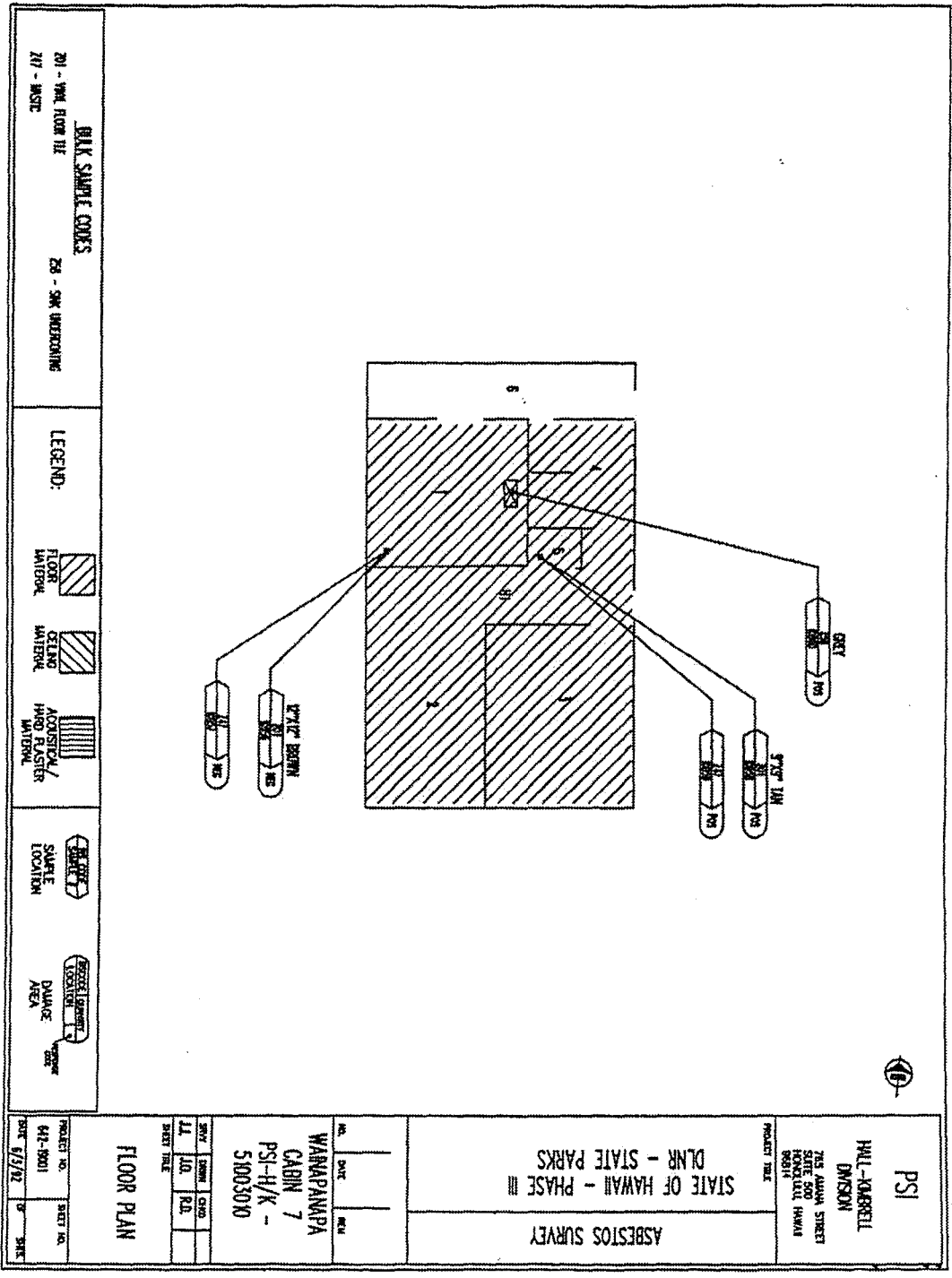
BUILDING NAME: DLNR - Waiapanapa
Rental Cabin #5

BUILDING I.D.: 51003009

PROJECT NUMBER : 642-19001

ROOM I.D.	On site	CEILING				WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base				
001	S								F-16			J-6	FROM 2
	NS												
002	S								F-18				FROM 1
	NS												
003	S								F-18				
	NS												
004	S								F-7				
	NS												
005	S								F-18				
	NS												
006	S												
	NS												FROM 1
#-1	S								F-18				FROM EXT.
	NS												

A-WAINAPANAPA CABIN 6-6



A-WAINAPANAPA CABIN 7-1

PROJECT TITLE		PSI	
ASBESTOS SURVEY		HULL-KAMBEILL DIVISION	
STATE OF HAWAII - PHASE III		715 ALUANA STREET	
DLNR - STATE PARKS		HONOLULU, HAWAII	
		PSI	
		PROJECT TITLE	
WAINAPANAPA CABIN 7-1		PROJECT NO.	
PSI-H/K - 51003010		SHEET NO.	
		DATE 7/19/12	
		SHEET TITLE	
		FLOOR PLAN	
		PROJECT NO. 042-19011	
		SHEET NO. 7	
		DATE 7/19/12	

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-57

Job No. F55B642B

Project Number: 64219001
 Building Number: 51603010
 Building Name: DLRR - Waltemperce Rental Cabin #7
 Address: 1-3-05-09
 Haul, MI

ASBESTOS ASSESSMENT SURVEY
 SR Phase 111

Pages: 163
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrody

LOCATION	SAMPLE GROUP NUMBER	MNSB OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	QDN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 floor Material												
AREDA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A												
Room 1, 2 - brown 12"x12"	1	1	vinyl floor tile		0%	0 sq.ft.	OM1	0	IV	\$0	\$0	\$0
NSF Sample # XASB												
1 - 10956	OK											
Room 1, 2 - brown 12"x12"	2	1	maetic		0%	0 sq.ft.	OM2	0	IV	\$0	\$0	\$0
NSF Sample # XASB												
2 - 10957	OK											
Room 3, 4, 5, M1 - tan 9"x9"	3	1	vinyl floor tile		15%	210 sq.ft.	OM1	11	IV	\$840	\$594	\$1,434
NSF Sample # XASB												
3 - 10958	15%											
Room 3, 4, 5, M1 - tan 9"x9"	4	1	maetic		15%	210 sq.ft.	OM2	11	IV	\$840	\$594	\$1,434

A-WAINAPANAPA CABIN 7-2

Project Number: 64219001
 Building Number: 51003010
 Building Name: DLRR - Halimpenapa Rental Cabin #7
 Address: 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOR Phase III

Page: 164
 Building Type: Residence
 Year Constructed: URM
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	HAZARD OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	QDN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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MS# Sample # XASB
 4 - 10959 15X

AREA # 1 TOTALS \$1,600 \$1,188 \$2,868

** Area	2 Misc. - sink Undercoating	Response Actions: 7	Potential for Disturbance: 2	Reason for Damage: A
Room 1 - grey	5	1 sink undercoating	20X	1 each
MS# Sample # XASB				
5 - 10960	20X			

AREA # 2 TOTALS \$90 \$289 \$379

BUILDING # 51003010 TOTALS \$1,770 \$1,477 \$3,247

A-WAINAPANAPA CABIN 7-3

CLIENT: DAG - Asbestos Litigation unit
 PROJECT #: 64219001 508 Phase III

PSI/MALL-KIRRELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 107
 BUILDING #: 51003010
 BUILDING: DLR - Wainapapa Rental Cabin #7

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HONO	COLOR	ASBESTOS						
							TOT ASS	CHRY	AMO	CRD	ANT	ACT /TRE	
1	10956	0	PRIMARY	Y	Y	B	0	0	0	0	0	0	
2	10957	0	PRIMARY	N	N	T	0	0	0	0	0	0	
3	10958	0	PRIMARY	Y	Y	T	15	0	0	0	0	0	
4	10959	0	PRIMARY	Y	Y	K	15	0	0	0	0	0	
5	10960	0	PRIMARY	Y	Y	Q	20	0	0	0	0	0	

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

Y = Trace

BUILDING NAME: OLIN - Uafanapanapa
 Rental Cabin #7

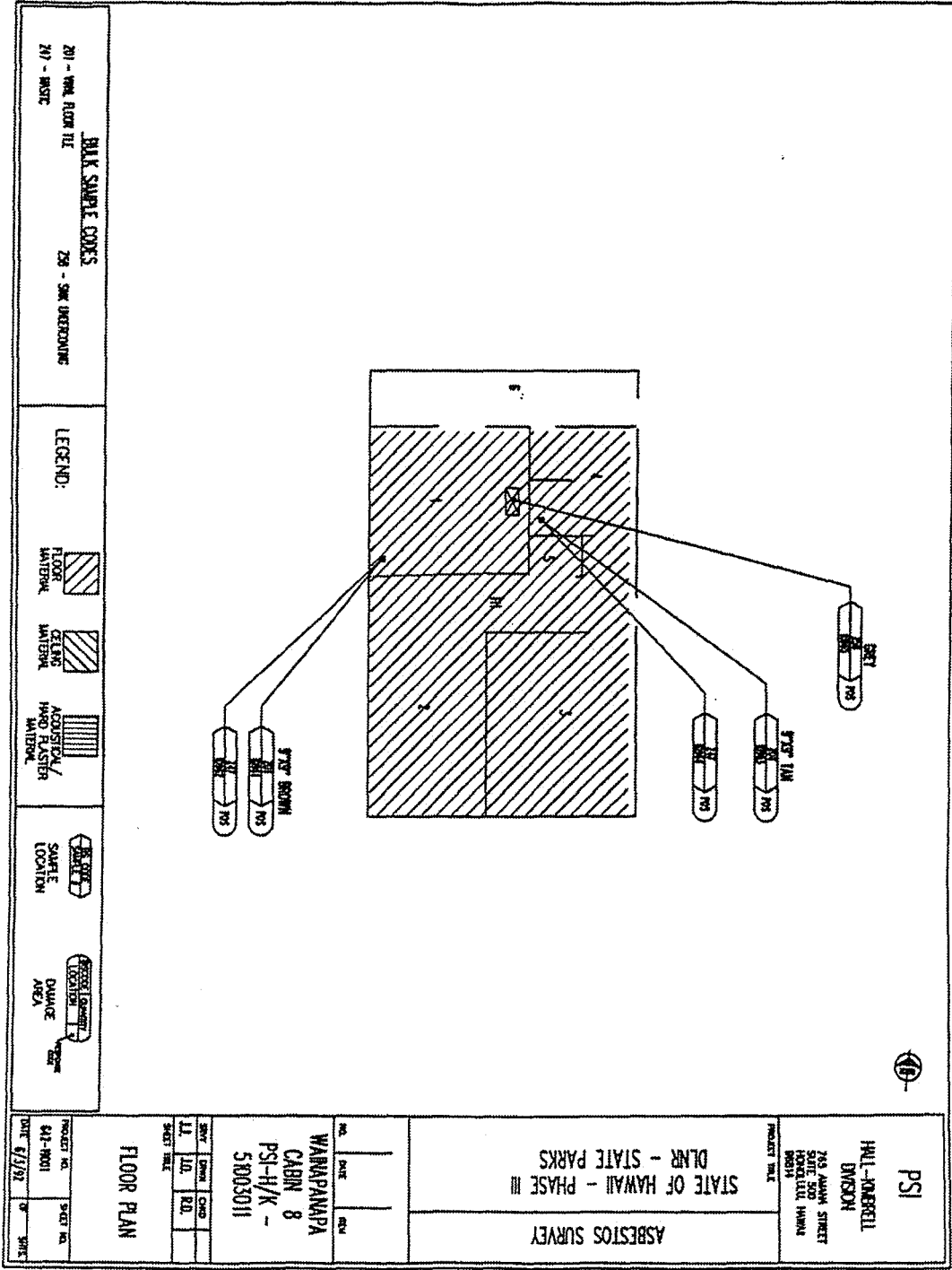
BUILDING I.D.# 51003010

PROJECT NUMBER : 642-19001

ROOM I.D.	On Site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Roar	Left	Front	Material	Base			
001	S										J-6	FROM 2
	NS											
002	S											FROM 1
	NS											
003	S											
	NS											
004	S											
	NS											
005	S											
	NS											
006	S											
	NS											
R-1	S											FROM EXT.
	NS											

A-WAINAPANAPA CABIN 7-5

Existing Conditions –
 Asbestos/Lead/Hazardous Material Survey
 13280-61



A-WAIAPANAPA CABIN 8-1

<p>BULK SAMPLE CODES</p> <p>201 - WALL FLOOR TILE</p> <p>211 - MISC</p> <p>206 - SWR INSPECTION</p>	<p>LEGEND:</p> <p>FLOOR MATERIAL</p> <p>CEILING MATERIAL</p> <p>ACQUISITION/HARD PLASTER MATERIAL</p> <p>SAMPLE LOCATION</p> <p>DAMAGE LOCATION AREA</p>
------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------

<p>PROJECT NO. 041-1001</p> <p>DATE 6/1/92</p>		<p>SHEET NO. 9</p> <p>TOTAL SHEETS 9</p>	
<p>FLOOR PLAN</p>			
<p>NO. _____ DATE _____</p> <p>WARAPANAPA CABIN 8</p> <p>PSI-H/K - 51003011</p>			
<p>STATE OF HAWAII - PHASE III</p> <p>DLNR - STATE PARKS</p>		<p>PSI</p> <p>HALL-KNEEBELL DIVISION</p> <p>715 AHAHA STREET</p> <p>SUITE 300</p> <p>HONOLULU HAWAII</p> <p>PROJECT FILE</p>	
<p>ASBESTOS SURVEY</p>			

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-62

Project Number: 64219001
 Building Number: 51003011
 Building Name: DLN - Wainapanapa Rental Cabin #8
 Address: TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 155
 Building Type: Residence
 Year Constructed: 1988
 Date Inspected: 12/13/91
 Inspectors: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	ROOM OR SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	ODM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material												
ASBESTOS Damage Codes: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damages: A												
Room 1, 2, 3, 5, N1 - brown 9x9x9m	1	1	vinyl floor tile		7%	420 sq.ft.	OM1	14	IV	\$1,650	\$1,189	\$2,839
MS# Sample # 2A58												
1 10961 7 X												
Room 1, 2, 3, 5, N1 - brown 9x9x9m	2	1	mastic		10%	420 sq.ft.	OM2	14	IV	\$1,650	\$1,189	\$2,839
MS# Sample # 2A58												
2 10962 10X												
Room 4 - ten 9x9x9m	3	1	vinyl floor tile		10%	50 sq.ft.	OM1	14	IV	\$200	\$142	\$342
MS# Sample # 2A58												
3 10963 10X												
Room 4 - ten 9x9x9m	4	1	mastic		5%	50 sq.ft.	OM2	14	IV	\$200	\$142	\$342

A-WAINAPANAPA CABIN 8-2

Project Number: 64219001
 Building Number: 51003011
 Building Name: DLB - Wainapanapa Rental Cabin #3
 Address: Tpk 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SCR Phase III

Page: 156
 Building Type: Residence
 Year Constructed: UNK
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPs	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OH CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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MS# Sample # 2A38
 4 10964 5 %

AREA # 1 TOTALS \$3,760 \$2,662 \$6,422

** Area	2 Misc. - sink Undercoating	Response Action: 7	Potential for Disturbance: 2	Reason for Damage: A
Room 1 - grey	5	1 sink undercoating	20% 1 each	ORZ 9 1V \$90 \$289 \$379
MS# Sample # XAS5	5	10965 20%		

AREA # 2 TOTALS \$90 \$289 \$379

BUILDING # 51003011 TOTALS \$3,850 \$2,951 \$6,801

A-WAINAPANAPA CABIN 8-3

CLIENT: DAG - Asbestos Litigation unit
 PROJECT #: 65219001 SOH Phase III

PERI/HALL-KIMBELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 108
 BUILDING #: S1003011
 BUILDING: DLN - Wainapanapa Rental Cabin #8

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	MONO	COLOR	A S B E S T O S					
							TOT ASB	CHRY	AMO	CRD	AMT	ACT /TRE
1	10961	0	PRIMARY	Y	T	T	7	0	0	0	0	0
2	10962	0	PRIMARY	Y	Y	K	10	0	0	0	0	0
3	10963	0	PRIMARY	Y	Y	T	10	0	0	0	0	0
4	10964	0	PRIMARY	Y	Y	K	5	0	0	0	0	0
5	10965	0	PRIMARY	Y	Y	G	20	0	0	0	0	0

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

A-WAINAPANAPA CABIN 8-4

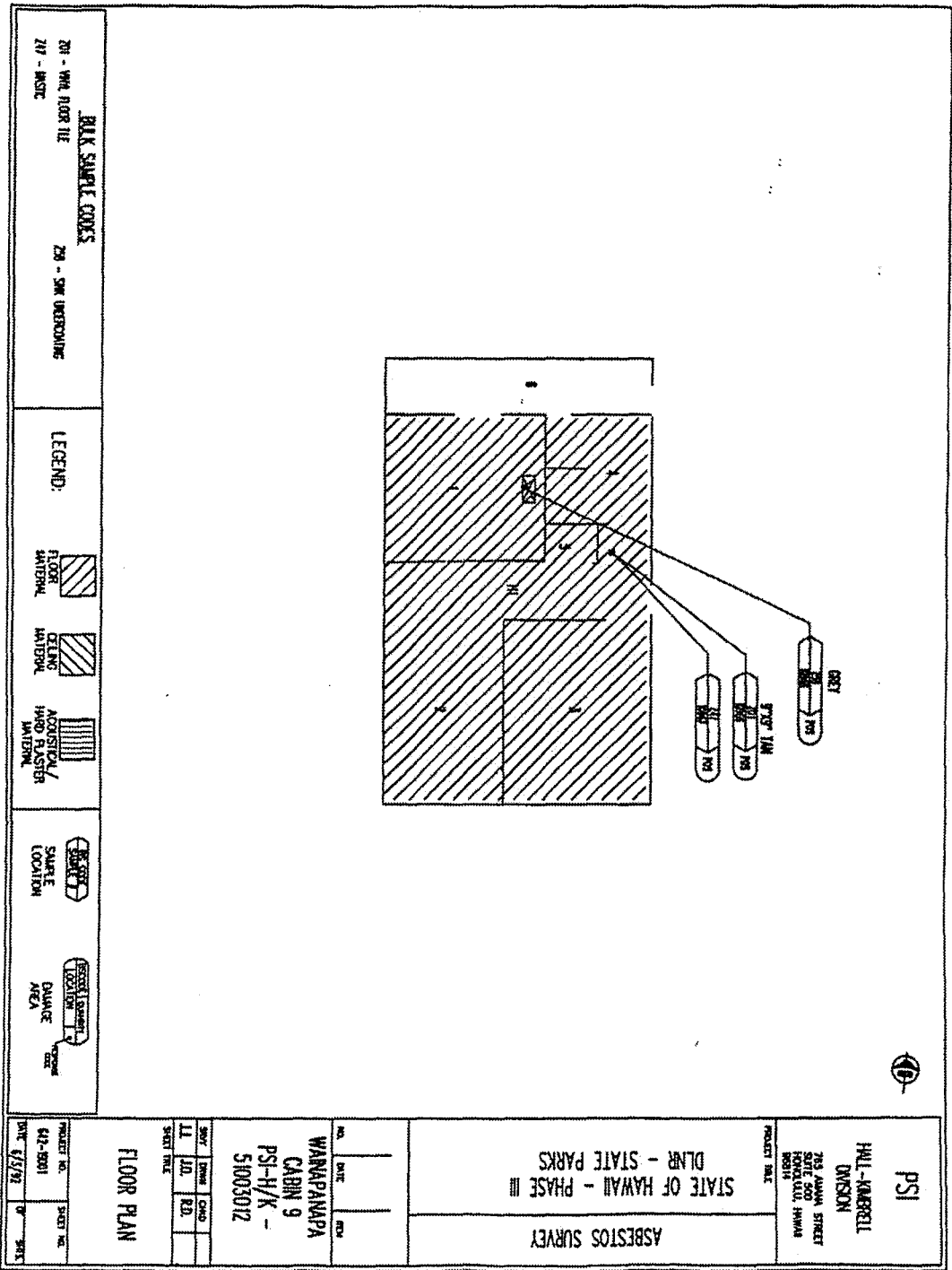
BUILDING NAME: DLRR - Velmpanappa
Rental Cabin #8

BUILDING I.D.: 51003011

PROJECT NUMBER : 642-19001

ROOM I.D.	On site	CEILING				WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Skatcr.	Surface	Right	Rear	Left	Front	Material	Base				
001	S											J-6	FROM 2
002	S												FROM 1
003	S												
004	S												
005	S												
006	S												FROM 1
H-1	S												FROM EXT.

A-WAINAMPANAPA CABIN 8-5



Existing Conditions -
 Asbestos/Lead/Hazardous Material Survey
 13280-67

Project Number: 64219001
 Building Number: 31003012
 Building Name: DLN - Wainanapanapa Rental Cabin #9
 Address: Trc 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SCR Phase III

Page: 157
 Building Type: Residence
 Year Constructed: UNKN
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE NO. OR RUNNER	MMS OR SAMP	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OSM CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area	1	Floor Material										
Room 1, 2, 3, 4, 5, HI - ten 9"x9"	1	1	vinyl floor tile		10%	470 sq.ft.	OH1	11	IV	\$1,680	\$1,350	\$3,210
HS# sample # XASB	10966	10X										
Room 1, 2, 3, 4, 5, HI - ten 9"x9"	2	1	mastic		5%	470 sq.ft.	OH2	11	IV	\$1,680	\$1,350	\$3,210
HS# sample # XASB	10967	5 X										
** Area	2	Misc. - Sink Undercoating										
Room 1 - grey	3	1	sink undercoating		20%	1 each	OH2	9	IV	\$90	\$289	\$379
AREAL # 1 TOTALS										\$3,760	\$2,660	\$6,420

A-WAINAPANAPA CABIN9-2

Project Number: 64219001
 Building Number: 51003012
 Building Name: OLNR - Walenpampa Rental Cabin #9
 Address: TKC 1-3-09109
 Seoul, MI

ASBESTOS ASSESSMENT SURVEY
 SOI Phase III

Page: 158
 Building Type: Residence
 Year Constructed: UNCH
 Date Inspected: 12/13/91
 Inspector: Jackson/Dynodny

LOCATION	SAMPLE GROUP NUMBER	AREA OF SURF	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	OM CODE	EXP POT	PRIORITY LEVEL	REPAIR/REPLACEMENT COSTS	TOTAL COSTS
	NSF	Sample #	2A58								
	3	10968	20X								

AREA #	2 TOTALS	\$90	\$289	\$379
BUILDING # 51003012 TOTALS	\$3,650	\$2,949	\$6,799	

A-WAINAPANAPA CABIN 9-3

CLIENT: DAG - Asbestos Litigation Unit
 PROJECT #1 64219001 SW Phase III

PAI/RAI-KIMBELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 109
 BUILDING #1 51003012
 BUILDING OLNR - Wainapapa Rental Cabin #9

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CHS	HOMO	COLOR	ASBESTOS					
							TOT ASS	CHRY	AMO	CRD	ANT	ACT /TNE
1	10966	0	PRIMARY	Y	Y	T	10	10	0	0	0	0
2	10967	0	PRIMARY	Y	Y	K	5	5	0	0	0	0
3	10968	0	PRIMARY	Y	Y	B	20	20	0	0	0	0

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

T = Trace

A-WAINAPANAPA CABIN 9-4

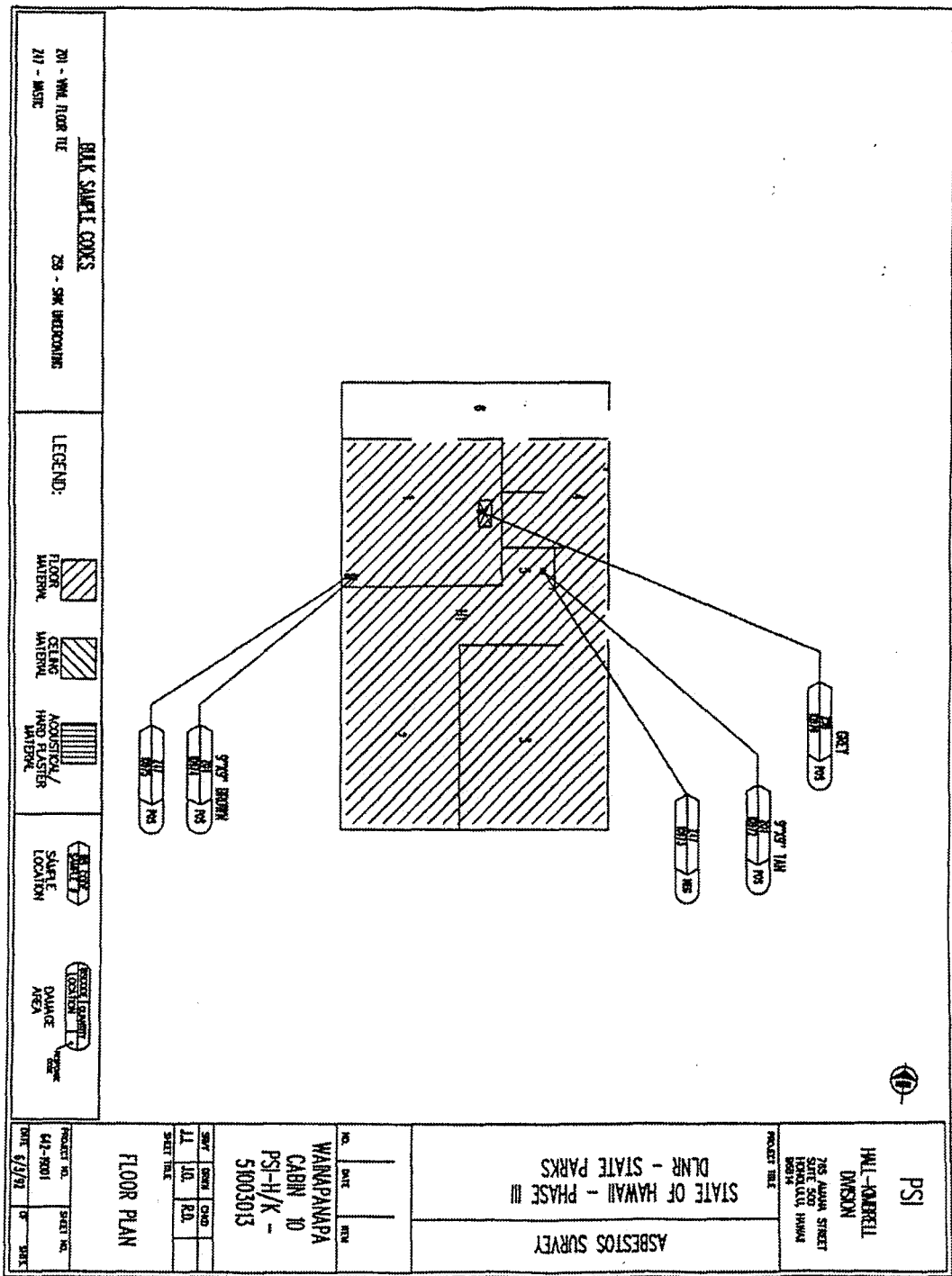
BUILDING NAME: DLIR - Unjanganpana
 Rental Cabin #9

BUILDING I.D.: 51003012

PROJECT NUMBER: 642-19001

ROOM I.D.	Original On Site	CEILING			WALLS			FLOOR		RECN.	MISC.	- SAMPLES/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S										J-6	FROM 2
002	S											FROM 1
003	S											
004	S											
005	S											
006	S											FROM 1
N-1	S											FROM EXT.

A-WAINAPANAPA CABIN 9-5



Existing Conditions –
 Asbestos/Lead/Hazardous Material Survey
 13280-72

Project Number: 64219001
 Building Number: 51003013
 Building Name: DLN - Wainanapapa Rental Cabin #10
 Address: Trx 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 159
 Building Type: Residence
 Year Constructed: UNRS
 Date Inspected: 12/13/91
 Inspector: Jachman/Dgrodny

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	QCN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
** Area 1 Floor Material												
Rooms 1, 2, 3, 4, 5, HI - ten 9x9's		1	vinyl floor tile		5X	435 sq.ft.	OM1	11	IV	\$1,760	\$1,231	\$2,971
	NS# Sample # XASB	1	10972	5 X								
Rooms 1, 2, 3, 4, 5, HI - ten 9x9's		2	vinyl floor tile		OMZ	0 sq.ft.	OMZ	0		\$0	\$0	\$0
	NS# Sample # XASB	2	10973	0 X								
Rooms 1, 2, 3, 4, 5, HI - broken 9x9's		3	vinyl floor tile		3X	35 sq.ft.	OM1	11	IV	\$160	\$99	\$239
	NS# Sample # XASB	3	10974	3 X								
Rooms 1, 2, 3, 4, 5, HI - broken 9x9's		4	vinyl floor tile		10X	35 sq.ft.	OMZ	11	IV	\$160	\$99	\$239
	NS# Sample # XASB	4	10975	10 X								

A-WAINANAPAPA CABIN 10-2

Project Number: 64219001
 Building Number: 51003013
 Building Name: OLNR - Wainapapa Rental Cabin #10
 Address: YHC 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 160
 Building Type: Residence
 Year Constructed: UNK
 Date Inspected: 12/13/91
 Inspector: Jackson/Ogrodny

LOCATION	SAMPLE GROUP NUMBER	HEALTH OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	X ASB	QUANTITY	QDN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
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HS# Sample # 2A5S
 4 10975 10%

AREA # 1 TOTALS \$2,020 \$1,429 \$3,449

** Area	2 Misc. - Sink Undercoating	Response Action: 7	Potential for Disturbance: 2	Reason for Damage: A
Room 1 - grey	5	1 sink undercoating	20%	1 each
HS# Sample # 2A5S	5	10976	20%	

AREA # 2 TOTALS \$90 \$289 \$379

BUILDING # 51003013 TOTALS \$2,110 \$1,718 \$3,828

A-WAINAPANAPA CABIN 10-3

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

PSI/MIL-KIRRELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 110
 BUILDING #1 51003013
 BUILDING BLR - Kaitiwapanapa Rental Cabin #10

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	RMO	COLOR	ASBESTOS					
							TOT ASB	CHRY	AMO	CRO	ANT	ACT /TRE
1	10972	0	PRIMARY	Y	Y	T	5	5	0	0	0	0
2	10973	0	PRIMARY	Y	Y	K	0	0	0	0	0	0
3	10974	0	PRIMARY	N	N	T	3	3	0	0	0	0
4	10975	0	PRIMARY	N	Y	K	10	10	0	0	0	0
5	10976	0	PRIMARY	Y	Y	Q	20	20	0	0	0	0

0 = Primary Analysis (Entire Sample) T = Trace
 1-4 = Subanalysis

A-WAINAPANAPA CABIN 10-4

BUILDING NAME: DLNR - Wainapanapa
Rental Cabin #10

BUILDING I.D.: 51003013

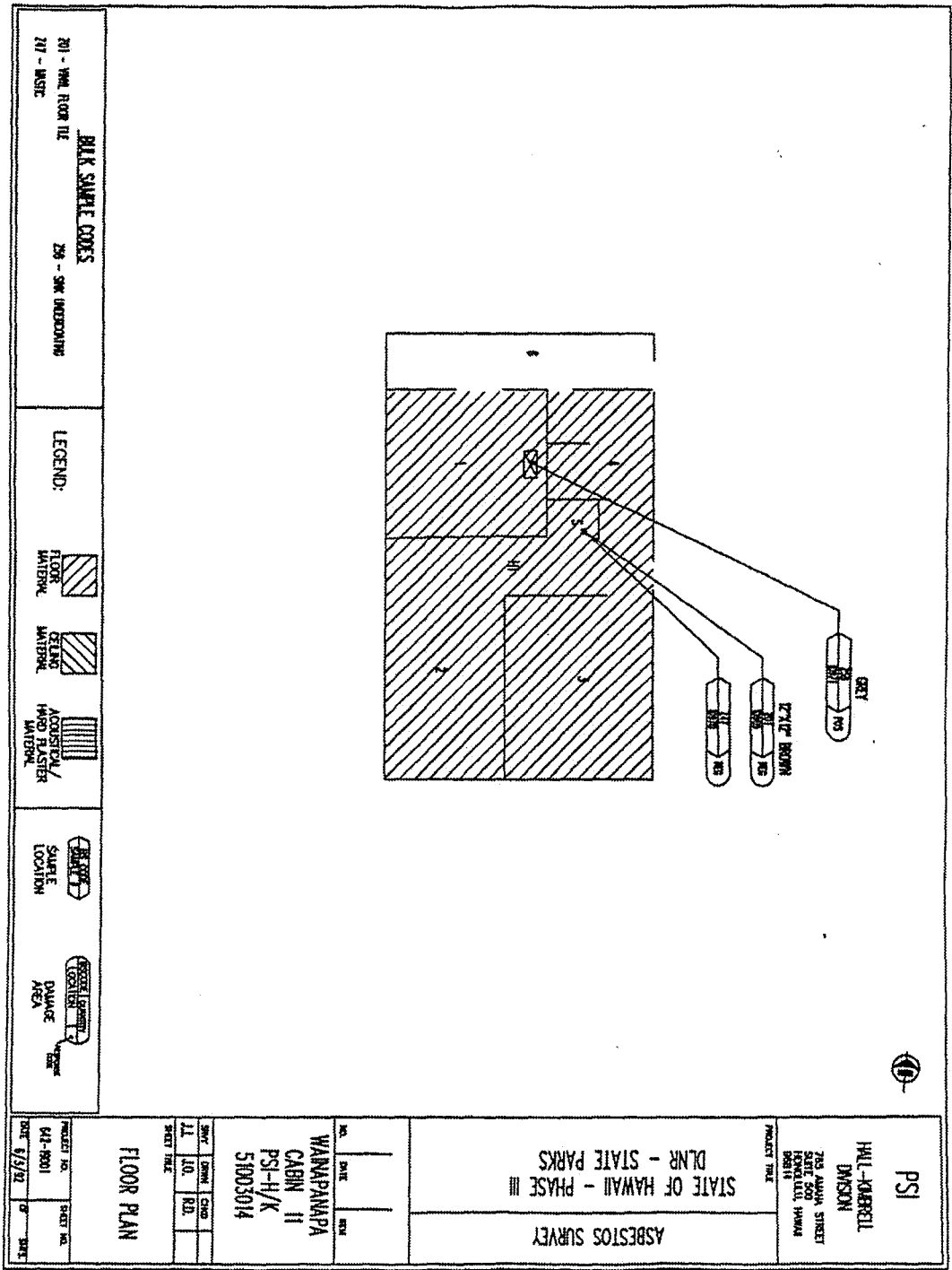
PROJECT NUMBER: 642-19001

Original	On Site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLES/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S										J-6	FROM 2
	NS	M	M	M	M	M						
002	S											FROM 1
	NS	M	M	M	M	M						
003	S											
	NS	M	M	M	M	M						
004	S											
	NS	M	M	M	M	M						
005	S											
	NS	M	M	M	M	M						
006	S											
	NS	M	M	M	M	M						FROM 1
R-1	S											FROM EXT.
	NS	M	M	M	M	M						

A-WAINAPANAPA CABIN 10-5

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-76

Job No. F55B642B



Existing Conditions –
 Asbestos/Lead/Hazardous Material Survey
 13280-77

Project Number: 64219001
 Building Number: 51003014
 Building Name: OLR - Wainapapa Rental Cabin 11
 Address: TRK 1-3-05109
 Maui, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 161
 Building Type: Residence
 Year Constructed: UNCL
 Date Inspected: 12/11/91
 Inspector: Dgrodny/Lackman

LOCATION	SAMPLE GROUP NUMBER	NUMB OF SAMPLES	MATERIAL DESCRIPTION	PIPE ID	% ASS	QUANTITY	QDN CODE	EXP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
----------	---------------------	-----------------	----------------------	---------	-------	----------	----------	---------	----------------	---------------	-------------------	-------------

** Area 1 Floor Material
 ARENA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damages: A

Room 1, 2, 3, 4, 5, N1 - brown 12"x12"	1	1	vinyl floor tile		0%	0 sq.ft.	QMI	0		\$0	\$0	\$0
----------------------------------------	---	---	------------------	--	----	----------	-----	---	--	-----	-----	-----

NS# Sample # XASB 1 10959 0 X												
----------------------------------	--	--	--	--	--	--	--	--	--	--	--	--

Room 1, 2, 3, 4, 5, N1 - brown 12"x12"

NS# Sample # XASB 2 10970 0 X												
----------------------------------	--	--	--	--	--	--	--	--	--	--	--	--

AREA # 1 TOTALS \$0 \$0 \$0

** Area 2 Misc. - Sink Undercoating
 ARENA Damage Code: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damages: A

Room 1 - Grey	3	1	sink undercoating		20%	1 each	QWZ	9	IV	\$90	\$269	\$379
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A-WAINAPANAPA CABIN 11-2

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

PSI/MALL-KIMBELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 111
 BUILDING #: 51003014
 BUILDING: DLRG - Wainapapa Rental Cabin 11

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	ASBESTOS					
							TOT ASB	CHRT	AMO	CRG	ANT	ACT /TNE
1	10959	0	PRIMARY	Y	Y	B	0	0	0	0	0	0
2	10970	0	PRIMARY	M	M	B	0	0	0	0	0	0
3	10971	0	PRIMARY	Y	Y	B	20	20	0	0	0	0

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

T = Traces

A-WAINAPANAPA CABIN 11-4

BUILDING NAME: DINR - Vajraparupa
Rental Cabin 11

BUILDING I.D.: 51003014

PROJECT NUMBER : 642-19001

ROOM I.D.	On site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S										J-5	FROM 2
	NS											
002	S											FROM 1
	NS											
003	S											
	NS											
004	S											
	NS											
005	S											
	NS											
006	S											
	NS											
H-1	S											FROM 1
	NS											FROM EXT.

A-WAINAPARUPA CABIN 11-5

Project Number: 64219001
 Building Number: 51003015
 Building Name: DLNR - Waialealapa Rental Cabin 12
 Address : TRK 1-3-05109
 Haul, HI

ASBESTOS ASSESSMENT SURVEY
 SOH Phase III

Page: 164
 Building Type: Residence
 Year Constructed: UMR
 Date Inspected: 12/13/91
 Inspector: Ogochry/Jackson

LOCATION	SAMPLE GROUP NUMBER	ROOMS OF SAMP	MATERIAL DESCRIPTION	PIPE ID	% ASB	QUANTITY	Q&A CODE	ENP POT	PRIORITY LEVEL	REMOVAL COSTS	REPLACEMENT COSTS	TOTAL COSTS
----------	---------------------	---------------	----------------------	---------	-------	----------	----------	---------	----------------	---------------	-------------------	-------------

NS# Sample # 2ASB
 4 109930 0 X

AREA # 1 TOTALS \$3,594 \$2,536 \$6,120

Room 1 - grey	NS#	Sample #	2ASB	5	1	sink undercraing	5X	1	each	ONZ	9	IV	\$90	\$289	\$379
** Area 2 Misc. - Sink Undercraing															
ASBDA Damage Codes: 5 Response Action: 7 Potential for Disturbance: 2 Reason for Damage: A															

AREA # 2 TOTALS \$90 \$289 \$379

BUILDING # 51003015 TOTALS \$3,674 \$2,825 \$6,499

CLIENT: DAG - Asbestos litigation unit
 PROJECT #: 64219001 SCM Phase III

PSI/MALL-KIMBELL, INC.
 ASBESTOS PETROGRAPHIC ANALYSIS

PAGE: 112
 BUILDING #: 51003015
 BUILDING: DLNR - Kalamangappa Rental Cabin 12

GROUP#	SAMPLE NUMBER	ANALY	TYPE	CONS	HOMO	COLOR	A S B E S T O S					
							TOT ASB	CHRY	AMO	CRD	ANT	ACT /TBE
1	10977	0	PRIMARY	Y	Y	T	10	10	0	0	0	0
2	10978	0	PRIMARY	N	Y	K	15	15	0	0	0	0
3	10979	0	PRIMARY	N	N	T	0	0	0	0	0	0
4	10980	0	PRIMARY	N	N	K	0	0	0	0	0	0
5	10981	0	PRIMARY	Y	Y	G	5	5	0	0	0	0

0 = Primary Analysis (Entire Sample)
 1-6 = Subanalyses

T = Trace

BUILDING NAME: DLNR - Malamparapa
Rental Cabin 12

BUILDING I.D. : 51003015

PROJECT NUMBER : 642-19001

Original	On site	CEILING			WALLS			FLOOR		MECH.	MISC.	SAMPLE/COMMENTS
		Substr.	Surface	Right	Rear	Left	Front	Material	Base			
001	S											FROM 2
	MS		M	M	M	M						
002	S											FROM 1
	MS		M	M	M	M						
003	S											
	MS		M	M	M	M						
004	S											
	MS		M	M	M	M						
005	S											
	MS		M	M	M	M						
006	S											
	MS		M	M	M	M						FROM 1
N-1	S											FROM EXT.
	MS		M	M	M	M						

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-86



Consultants, Inc.

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*:

- Cabin #3 - 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
- Cabin #3 - 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, 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

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-87

Job No. F55B642B

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 Paint	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.

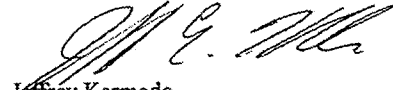
VEC Project No. 0402-735
March 25, 2004

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, Wailuku, 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.

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

Laboratory Report

0020153

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	VUICH ENVIRONMENTAL	Job# / P.O. #:	0402-735	735
Address:	1498 LOWER MAIN ST, STE C WAILUKU, HI 96793	Date Received:	03/17/2004	
Collected:	03/16/2004	Date Analyzed:	03/19/2004	
Project Name/	WAINAPANAP	Date Reported:	03/19/2004	
Address:		EPA Method:	EPA 600/M4-82-020	
		Submitted By:	JEFFREY KERMODE	
		Collected By:	Customer	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	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 1% Carbonates Binder/Filler 99%
		LAYER 3 12" Floor Tile, Lt. Brown	Yes	Chrysotile 10%	Carbonates Binder/Filler 90%
		LAYER 4 Mastic, Black	Yes	Chrysotile 5%	Cellulose Fiber 1% Carbonates Binder/Filler 94%

EMC LABS, INC.

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

Laboratory Report
0020153

Bulk Asbestos Analysis by Polarized Light Microscopy

NVLAP#101926-0

Client:	VUICH ENVIRONMENTAL	Job# / P.O. #:	0402-735	735
Address:	1498 LOWER MAIN ST, STE C WAILUKU, HI 96793	Date Received:	03/17/2004	
Collected:	03/16/2004	Date Analyzed:	03/19/2004	
Project Name/	WAINAPANAP	Date Reported:	03/19/2004	
Address:		EPA Method:	EPA 600/M4-82-020	
		Submitted By:	JEFFREY KERMODE	
		Collected By:	Customer	

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	Non-Asbestos Constituents
0020153-003 735-B-03A	CABIN #3 BATHRM FLOOR	LAYER 1 12" Floor Tile, Lt. Red	No		Quartz Carbonates Binder/Filler 100%
		LAYER 2 Mastic, Brown	No		Cellulose Fiber 2% Mineral Wool 1% Synthetic Fiber <1% Quartz Carbonates Binder/Filler 96%
0020153-004 735-B-04A	CABIN #3 KITCHEN FLOOR	Sink Undercoat, White/Lt. Blue	Yes	Chrysotile 15%	Carbonates Binder/Filler 85%
0020153-005 735-B-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 Mastic, Yellow Note: Very small amount of sample-may effect analysis	No		Cellulose Fiber 1% Carbonates Binder/Filler 99%
0020153-007 735-B-07A	CABIN #3 BEDROOM	12" Floor Tile, Gray/ Beige Note: No Mastic Present	Yes	Chrysotile 5%	Quartz Carbonates Binder/Filler 95%

Page 2 of 3

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-91

Job No. F55B642B

EMC LABS, INC.

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

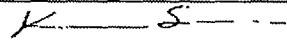
Laboratory Report
0020153

Bulk Asbestos Analysis by Polarized Light Microscopy

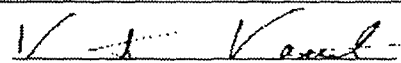
NVLAP#101926-0

Client: VUICH ENVIRONMENTAL Job# / P.O. #: 0402-735 735
Address: 1498 LOWER MAIN ST, STE C Date Received: 03/17/2004
WAILUKU, HI 96793 Date Analyzed: 03/19/2004
Collected: 03/16/2004 Date Reported: 03/19/2004
Project Name/ WAINAPANAP EPA Method: EPA 600/M4-82-020
Address: Submitted By: JEFFREY KERMODE
Collected By: Customer

Lab ID Client ID	Sample Location	Layer Name / Sample Description	Asbestos Detected	Asbestos Type (%)	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 1% Carbonates Binder/Filler 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 100%
0020153-011 735-B-11A	AREA #5 BBQ PIT	Grout, Gray	No		Cellulose Fiber <1% Quartz Carbonates Binder/Filler 99%



Analyst - Kenneth Scheske



Signatory - Lab Director - Kurt Kettler

Distinctly stratified, easily separable layers of samples are analyzed as subsamples of the whole and are reported separately for each discernible layer. All analyses are derived from calibrated visual estimates and measured in weight percent unless otherwise noted. The report applies to the standards or procedures identified and to the sample(s) tested. The test results are not necessarily indicative or representative of the quantities 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. These reports are for the exclusive use of the addressee client and 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 specific written permission. The report shall not be reproduced except in full without written approval by our laboratory. The samples not destroyed in testing are retained a maximum of thirty days. The laboratory measurement of uncertainty for the test method is approximately 41% by weight. Accredited by the National Institute of Standards and Technology, Voluntary Laboratory Accreditation Program for selected test methods for asbestos. The accreditation or any results generated by this laboratory in no way constitutes or implies product certification, approval, or endorsement by the National Institute of Standards and Technology. The report must not be used by any entity to claim product endorsement by NVLAP or any agency of the U.S. Government. Polarized Light Microscopy may not be consistently reliable in detecting asbestos in floor coverings and similar non-fibrous organically bound materials.

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

13280-92

#0385 P.001/001

CHAIN OF CUSTODY

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

LAB#: 735
TAT: 2 day
Rec'd: PAR 17 PM

COMPANY NAME: VUICH ENVIRONMENTAL CONSULTANTS, INC. BILL TO: (if different location)
1498 LOWER MAIN ST. STE C
WAILUKU, HI 96783
CONTACT: JOHN VUICH
Phone/Fax: (808) 249-2777 / (808) 249-2778
Email:

Now Accepting: VISA - MASTERCARD Price Quoted: \$ / Sample \$ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. TURNAROUND TIME: [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]

***Price confirmation of turnaround time is required
***Additional charges for rush analysts (please call marketing department for pricing details)
***Laboratory analysis may be subject to delay under certain terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count]

3. DISPOSAL INSTRUCTIONS: [Dispose of samples at EMC] / [Return samples to me at my expense]
(if you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: <u>WAINAPANAYA</u>						
P.O. Number: <u>735</u>		Project Number: <u>0902 - 735</u>				
EMC SAMPLE #	CLIENT SAMPLE #	DATE & TIME SAMPLED	LOCATION/MATERIAL TYPE	Samples Accepted Yes / No	AIR SAMPLE INFO / COMMENTS ON OFF FLOW RATES	
1	735(B)-01A	3/12/04	CORR #3 KITCHEN FLOOR	Y N		
2	-02A			Y N		
3	-03A		CABINETS BATHROOM	Y N		
4	-04A		CABINETS KITCHEN	Y N		
5	-05A		SINK	Y N		
6	-06A		CABINETS BATHROOM	Y N		
7	-07A			Y N		
8	-08A		CABINETS HALLWAY	Y N		
9	-09A		CABINETS BATHROOM	Y N		
10	-10A		AREA #4 WRECKAGE	Y N		
11	735(B)-11A	3/12/04	AREA #5 ROOF	Y N		
				Y N		
				Y N		
				Y N		

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) J. KERMODE (Signature) [Signature]

Relinquished by: [Signature] Date/Time: 3/16/04 Received by: [Signature] Date/Time: 3/19/04

Relinquished by: [Signature] Date/Time: 3/17/04 Received by: [Signature] Date/Time: 3/19/04

Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.



9830 South 51st Street, Suite B-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

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


EMC LAB #: L25908		DATE RECEIVED: 03/17/04			
CLIENT: Vuich Environmental Consultants, Inc.		REPORT DATE: 03/19/04			
		DATE OF ANALYSIS: 03/18/04			
CLIENT ADDRESS: 1498 Lower Main St. Ste C Wailuku, HI 96793		P.O. NO.: 735			
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	0.010	0.082
5	03/12	735 (B)-05L	Cabin #3 Kitchen Cabinet-Red Brown Paint	0.010	0.085

* = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results 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 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 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: 
Kurt Kettler



9830 South 51st Street, Suite 8-109 / PHOENIX, ARIZONA 85044 / 480-940-5294 or 800-362-3373 / FAX 480-893-1726
emclab@emclabs.com

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

EMC LAB #:		L25908		DATE RECEIVED:		03/17/04	
CLIENT:		Vuich Environmental Consultants, Inc.		REPORT DATE:		03/19/04	
				DATE OF ANALYSIS:		03/18/04	
CLIENT ADDRESS:		1498 Lower Main St. Ste C Wailuku, HI 96793		P.O. NO.:		735	
PROJECT NAME:		Wainapanapa		PROJECT NO.:		0402-735	
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 Paint	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-White Paint	0.010	BRL		

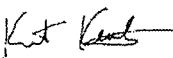
^ = Dilution Factor Changed * = Excessive Substrate May Bias Sample Results BRL = Below Reportable Limits

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 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 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: 
Kurt Kettler

CHAIN OF CUSTODY

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

LAB#: 225908
TAT: 2 day
Rec'd: MAR 17 2004

COMPANY NAME: VUICH ENVIRONMENTAL CONSULTANTS, INC.
1498 LOWER MAIN ST, STE C
WAILUKU, HI 96793

BILL TO: (if different location)
219

CONTACT: JOHN VUICH
Phone/Fax: (808) 249-2777 / (808) 249-2778
Email:

Now Accepting: VISA - MASTERCARD Price Quoted: \$ / Sample \$ / Layers

COMPLETE ITEMS 1-4: (Failure to complete any items may cause a delay in processing or analyzing your samples)

1. TURNAROUND TIME: [4hr rush] [8hr rush] [1-Day] [2-Day] [3-Day] [5-Day] [6-10 Day]

Additional confirmation of turnaround time is required
Additional charges for rush analysis (please call marketing department for pricing details)
Laboratory analysis may be subject to delay if credit terms are not met

2. TYPE OF ANALYSIS: [Bulk-PLM] [Air-PCM] [Lead] [Point Count]

3. DISPOSAL INSTRUCTIONS: [Dispose of samples at EMC] - [Return samples to me at my expense]
(if you do not indicate preference, EMC will dispose of samples 60 days from analysis.)

4. Project Name: WAINAPANAPA
P.O. Number: 735 Project Number: 0502-735

Table with 6 columns: EMC SAMPLE #, CLIENT SAMPLE #, DATE & TIME SAMPLED, LOCATION/MATERIAL TYPE, Samples Accepted Yes/No, AIR SAMPLE INFO / COMMENTS. Contains 11 rows of sample data.

SPECIAL INSTRUCTIONS:

Sample Collector: (Print) J. KERMONI (Signature)
Relinquished by: [Signature] Date/Time: 3/16/04 Received by: [Signature] Date/Time: 3/17/04
Relinquished by: [Signature] Date/Time: 3/17/04 Received by: [Signature] Date/Time: 3/17
Relinquished by: [Signature] Date/Time: 3/16/04 9:05 Received by: [Signature] Date/Time:

** In the event of any dispute between the above parties for these services or otherwise, parties agree that jurisdiction and venue will be in Phoenix, Arizona and prevailing party will be entitled to attorney's fees and court costs.

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-97

Job No. F55B642B



EnviroQuest

**LIMITED INSPECTION REPORT FOR
ASBESTOS AND LEAD-BASED PAINT**

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

Prepared for:

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725 Kapiolani Blvd., Suite C-207
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Prepared by:

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March 2011

ENVIROQUEST Project 5880

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-98

Job No. F55B642B



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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.

Material	Location	Condition
Tile and tan mastic under 12"X12" brown speckled design tile	Cabin 1, kitchen	D
12"X12" tan with maroon and white specks tile	Cabin 1, storage	G
12"X12" light-gray tile	Cabin 1, bedroom and bedroom by kitchen area	D
Gray mastic	Cabin 1 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown speckled design tile	Cabin 2, kitchen	D
12"X12" light-gray tile with white and maroon specks and brown mastic	Cabin 2, bedroom, bedroom by kitchen area, storage and hallway	D
Gray mastic	Cabin 2 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" cream tile with tan specks	Cabin 3, bathroom, storage, hallway and kitchen sink area	D
12"X12" light-gray tile with white specks	Cabin 3, bedroom and bedroom by kitchen area	D
Tile and black mastic under 12"X12" brown speckled tile	Cabin 3, kitchen	D
Tile and black mastic under 12"X12" brown speckled tile	Cabin 4, kitchen	D
12"X12" light-gray tile with white and maroon specks	Cabin 4, bedroom, bedroom by kitchen area, hallway and storage	D
Gray mastic	Cabin 4 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown speckled tile	Cabin 5, kitchen	D
12"X12" light-gray tile with white and maroon specks	Cabin 5, bedroom, bedroom by kitchen area and hallway	D
Gray mastic	Cabin 5 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown speckled tile	Cabin 6, kitchen	D
12"X12" light-gray tile with white specks	Cabin 6, bedroom, bedroom by kitchen area, storage and hallway	D
Tile and black mastic under 12"X12" cream with tan specks tile	Cabin 6, bathroom	D
Gray mastic	Cabin 6 kitchen, undercoating sink mastic	G
Tile and black mastic under 12"X12" brown speckled tile	Cabin 7, kitchen and bedroom by kitchen area	D
Black mastic under 12"X12" tan with brown and white specks tile	Cabin 7, bedroom, hallway and bathroom	D
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 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	D
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.



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.



TABLE 1
Homogeneous Material Summary
Waianapanapa State Park Cabins

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



Homogeneous Material	ACM ₁ (Y/N)	Location	Sample ID	Friable (Y/N)	Condition ₂
mastic			5880331135		
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	D
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	D
9" X 9" tan tile with white specks and black mastic	Y	Cabin 12, bedroom (replacement tile)	5880331148 5880331149 5880331150	N	D
Sealant	Y	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 nd layer tile and black mastic	Cabin 11, kitchen, bedroom and bedroom by kitchen	5880331153 5880331154 5880331155	N	D
White mastic	N	Cabin 11 kitchen, 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	Y	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 nd layer tile and black mastic	Cabin 7, kitchen and bedroom by kitchen	5880331168 5880331169 5880331170	N	D
12" X 12" tan with brown and white	Y	Cabin 7, bedroom, hallway and bathroom	5880331171	N	D



Homogeneous Material	ACM ₁ (Y/N)	Location	Sample ID	Friable (Y/N)	Condition ₁
specks and black mastic	Black mastic		5880331172 5880331173		
9" X 9" tan tile and black mastic	Y	Cabin 7, storage	5880331174 5880331175 5880331176	N	D
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" X 12" brown speckled tile and black mastic	Y 2 nd 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	D
12" X 12" light-gray tile with white and maroon specks and black mastic	Y Tile only	Cabin 4, bedroom hallway and bedroom by kitchen	5880331186 5880331187 5880331188	N	D
Gray mastic	Y	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 nd 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	D
12" X 12" cream with tan specks tile and black mastic	N	Cabin 5, bathroom	5880331198 5880331199 5880331100	N	D
Gray mastic	Y	Cabin 5 kitchen, undercoating sink mastic	5880331101	N	G
12" X 12" brown speckled tile and brown mastic	Y 2 nd layer tile and brown mastic	Cabin 6, kitchen	5880331102 5880331103 5880331104	N	D
12" X 12" light-gray tile and black mastic	Y Tile only	Cabin 6, bedrooms, storage and hallway	5880331105 5880331106 5880331107	N	D
12" X 12" cream with tan specks and	Y	Cabin 6, bathroom	5880331108	N	G

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-108



Homogeneous Material	ACM ₁ (Y/N)	Location	Sample ID	Friable (Y/N)	Condition ₂
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)	Y 2 nd layer tile and mastic	Cabin 1, kitchen	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	Y	Cabin 1, bedrooms	58803311118 58803311119 58803311120	N	D
12" X 12" tan with maroon and white specks tile and black mastic	Y Tile only	Cabin 1, storage	58803311121 58803311122 58803311123	N	G
Gray mastic	Y	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 nd layer tile and mastic	cabin 2, kitchen	58803311127 58803311128 58803311129	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	Y	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	N	G

1. ACM=>1% asbestos content

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

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-109



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.



TABLE 2
Homogeneous Paint Summary
Wai'anapanapa State Park Cabins

Paint Color	Int/Ext	LBP ₁ (Y/N)	LCP ₂ (Y/N)	Paint Location	Sample ID	Condition _{3,4}
Green	Ext	N	N	Cabin 3, wood wall	5880331101	Fair
Tan	Int	N	N	Cabin 3, wood wall	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 8, 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	Y	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

1. LBP = >0.5% lead by weight
 2. LCP = >laboratory detection limit but <0.5%
 3. Exterior: Intact – Entire surface is intact; Fair - ≤ 10%; Poor - >10 %
 4. Interior: Intact – Entire surface is intact; Fair - ≤ 2% or ≤ 10%; Poor - >2 % or >10%



4.0 CONCLUSION

4.1 Asbestos-Containing Materials

The listed material was identified as asbestos-containing materials.

Material	Location	Condition
Tile and tan mastic under 12"X12" brown speckled design tile	Cabin 1, kitchen	D
12"X12" tan with maroon and white specks tile	Cabin 1, storage	G
12"X12" light-gray tile	Cabin 1, bedroom and bedroom by kitchen area	D
Gray mastic	Cabin 1 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown speckled design tile	Cabin 2, kitchen	D
12"X12" light-gray tile with white and maroon specks and brown mastic	Cabin 2, bedroom, bedroom by kitchen area, storage and hallway	D
Gray mastic	Cabin 2 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" cream tile with tan specks	Cabin 3, bathroom, storage, hallway and kitchen sink area	D
12"X12" light-gray tile with white specks	Cabin 3, bedroom and bedroom by kitchen area	D
Tile and black mastic under 12"X12" brown speckled tile	Cabin 3, kitchen	D
Tile and black mastic under 12"X12" brown speckled tile	Cabin 4, kitchen	D
12"X12" light-gray tile with white and maroon specks	Cabin 4, bedroom, bedroom by kitchen area, hallway and storage	D
Gray mastic	Cabin 4 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown speckled tile	Cabin 5, kitchen	D
12"X12" light-gray tile with white and maroon specks	Cabin 5, bedroom, bedroom by kitchen area and hallway	D
Gray mastic	Cabin 5 kitchen, undercoating sink mastic	G
Tile and tan mastic under 12"X12" brown speckled tile	Cabin 6, kitchen	D
12"X12" light-gray tile with white specks	Cabin 6, bedroom, bedroom by kitchen area, storage and hallway	D
Tile and black mastic under 12"X12" cream with tan specks tile	Cabin 6, bathroom	D
Gray mastic	Cabin 6 kitchen, undercoating sink mastic	G
Tile and black mastic under 12"X12" brown speckled tile	Cabin 7, kitchen and bedroom by kitchen area	D
Black mastic under 12"X12" tan with brown and white specks tile	Cabin 7, bedroom, hallway and bathroom	D



Material	Location	Condition
9"X9" tan tile and black mastic	Cabin 7, storage	D
Black mastic under 12"X12" tan with brown and white specks tile	Cabin 8, bedroom, bedroom by kitchen area and kitchen	D
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	D
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.



4.2 Lead-Based Paint

Lead-based paints were not identified in this inspection.



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 asbestos-containing 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

Job No. F55B642B



Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

EnviroQuest, Inc.
Steve Tanaka
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 Park Cabin Park Improvements

FALI Job ID: 7104

Date(s) Collected: 03/03/2011

Total Samples Submitted: 141

Total Samples Analyzed: 109

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331101	50637219						
			ND				
			ND				
			ND				
		Chrysotile	2 %				
		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331102	50637220						
			ND				
			ND				
			ND				
		Chrysotile	2 %				
			ND				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331103	50637221						
			ND				
			ND				
			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331104	50637222						
		Chrysotile	2 %				
			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331105	50637223						
		Chrysotile	2 %				
			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331106	50637224						
Layer: Light Grey Tile		Chrysotile	2 %				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		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 Components:		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 Components:		Asbestos (Trace)					
Cellulose (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 Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331110	50637228						
Layer: Grey Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (15 %)							
5880331111	50637229						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331112	50637230						
Layer: Tan Tile			ND				
Layer: Black/Tan Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331113	50637231						
Comment: Sample not analyzed due to prior positive result in series.							
5880331114	50637232						
Comment: Sample not analyzed due to prior positive result in series.							

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2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-118

Job No. F55B642B

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331116	50637234						
Comment: Sample not analyzed due to prior positive result in series.							
5880331117	50637235						
Comment: Sample not analyzed due to prior positive result in series.							
5880331118	50637236						
Layer: Tan Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
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		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
5880331122	50637240						
Layer: Dark Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331123	50637241						
Layer: Dark Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331124	50637242						
Layer: Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331125	50637243						
Comment: Sample not analyzed due to prior positive result in series.							
5880331126	50637244						
Comment: Sample not analyzed due to prior positive result in series.							

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2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-119

Job No. F55B642B

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (3%)					
Cellulose (Trace)							
5880331128	50637246						
Comment: Sample not analyzed due to prior positive result in series.							
5880331129	50637247						
Comment: Sample not analyzed due to prior positive result in series.							
5880331130	50637248						
Layer: Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
5880331131	50637249						
Layer: Dark Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331132	50637250						
Layer: Dark Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331133	50637251						
Layer: Tan Tile			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331134	50637252						
Comment: Sample not analyzed due to prior positive result in series.							
5880331135	50637253						
Comment: Sample not analyzed due to prior positive result in series.							
5880331136	50637254						
Layer: Brown Tile			ND				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331137	50637255						
Comment: Sample not analyzed due to prior positive result in series.							
5880331138	50637256						
Comment: Sample not analyzed due to prior positive result in series.							

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-120

Client Name: EnviroQuest, Inc.

Report Number: B146154

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		Chrysotile	3 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
5880331140	50637258						
Comment: Sample not analyzed due to prior positive result in series.							
5880331141	50637259						
Comment: Sample not analyzed due to prior positive result in series.							
5880331142	50637260						
Layer: Beige Tile			ND				
Layer: Black and Tan Mastic		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331143	50637261						
Layer: Beige Tile			ND				
Layer: Black and Tan Mastic		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331144	50637262						
Layer: Beige Tile			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331145	50637263						
Layer: Tan Tile			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331146	50637264						
Comment: Sample not analyzed due to prior positive result in series.							
5880331147	50637265						
Comment: Sample not analyzed due to prior positive result in series.							
5880331148	50637266						
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
5880331149	50637267						
Comment: Sample not analyzed due to prior positive result in series.							
5880331150	50637268						
Comment: Sample not analyzed due to prior positive result in series.							

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Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-121

Job No. F55B642B

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

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 Components:	Asbestos (5%)				
		Cellulose (Trace)					
5880331152	50637270						
		Layer: Black Semi-Fibrous Tar	Chrysotile	5 %			
		Total Composite Values of Fibrous Components:	Asbestos (5%)				
		Cellulose (Trace)					
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 Components:	Asbestos (2%)				
		Cellulose (Trace)					
5880331154	50637272						
		Comment: Sample not analyzed due to prior positive result in series.					
5880331155	50637273						
		Comment: Sample not analyzed due to prior positive result in series.					
5880331156	50637274						
		Layer: Beige Semi-Fibrous Material		ND			
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (15 %)					
5880331157	50637275						
		Layer: Grey Non-Fibrous Material		ND			
		Layer: Paint		ND			
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (Trace)					
5880331158	50637276						
		Layer: Black Semi-Fibrous Tar	Chrysotile	5 %			
		Total Composite Values of Fibrous Components:	Asbestos (5%)				
		Cellulose (Trace)					
5880331159	50637277						
		Layer: Beige Tile		ND			
		Layer: Tan Mastic		ND			
		Layer: Black Mastic	Chrysotile	2 %			
		Total Composite Values of Fibrous Components:	Asbestos (Trace)				
		Cellulose (Trace)					
5880331160	50637278						
		Comment: Sample not analyzed due to prior positive result in series.					
5880331161	50637279						
		Comment: Sample not analyzed due to prior positive result in series.					

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2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (5%)					
Cellulose (Trace)							
5880331163	50637281						
Comment: Sample not analyzed due to prior positive result in series.							
5880331164	50637282						
Comment: Sample not analyzed due to prior positive result in series.							
5880331165	50637283						
Layer: Light Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
5880331166	50637284						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
5880331167	50637285						
Layer: Black Semi-Fibrous Tar		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
5880331168	50637286						
Layer: Light Brown Tile			ND				
Layer: Tan Mastic			ND				
Layer: Brown Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331169	50637287						
Comment: Sample not analyzed due to prior positive result in series.							
5880331170	50637288						
Comment: Sample not analyzed due to prior positive result in series.							
5880331171	50637289						
Layer: Tan Tile			ND				
Layer: Tan Mastic			ND				
Layer: Black Mastic		Chrysotile	2 %				
Total Composite Values of Fibrous Components:		Asbestos (Trace)					
Cellulose (Trace)							
5880331172	50637290						
Comment: Sample not analyzed due to prior positive result in series.							
5880331173	50637291						
Comment: Sample not analyzed due to prior positive result in series.							

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Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-123

Job No. F55B642B

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331174	50637292						
Layer: Tan Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	3 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
5880331175	50637293						
Comment: Sample not analyzed due to prior positive result in series.							
5880331176	50637294						
Comment: Sample not analyzed due to prior positive result in series.							
5880331177	50637295						
Layer: Beige Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (5 %)							
5880331178	50637296						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331179	50637297						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331180	50637298						
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							

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2959 Pacific Commerce Drive, Rancho Dominguez, CA 90221 / Telephone: (310) 763-2374 (888) 813-9417 / Fax: (310) 763-8684

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-124

Job No. F55B642B

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
5880331183	50637301						
Layer: Dark Beige Tile			ND				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331184	50637302						
Layer: Dark Beige Tile			ND				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331185	50637303						
Layer: Dark Beige Tile			ND				
Layer: Tan Mastic with Debris			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331186	50637304						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331187	50637305						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331188	50637306						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331189	50637307						
Layer: Light Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
5880331190	50637308						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

Report Number: B146154

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			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331195	50637313						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331196	50637314						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
5880331197	50637315						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (ND)					
Cellulose (Trace)							
5880331199	50637317						
Layer: Beige Tile			ND				
Layer: Black and Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311100	50637318						
Layer: Beige Tile			ND				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311101	50637319						
Layer: Light Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311105	50637323						
		Layer: Dark Beige Tile	Chrysotile	2 %			
		Layer: Tan Mastic with Debris		ND			
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311106	50637324						
		Layer: Dark Beige Tile	Chrysotile	2 %			
		Layer: Tan Mastic with Debris		ND			
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311107	50637325						
		Layer: Dark Beige Tile	Chrysotile	2 %			
		Layer: Tan Mastic with Debris		ND			
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311108	50637326						
		Layer: Beige Tile	Chrysotile	2 %			
		Layer: Tan Mastic		ND			
		Layer: Tan Tile	Chrysotile	5 %			
		Layer: Black Mastic with Tile Debris	Chrysotile	Trace			
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
58803311109	50637327						
		Layer: Beige Tile	Chrysotile	2 %			
		Layer: Tan Mastic		ND			
		Layer: Tan Tile	Chrysotile	5 %			
		Layer: Black Mastic with Tile Debris	Chrysotile	Trace			
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
58803311110	50637328						
		Layer: Beige Tile	Chrysotile	2 %			
		Layer: Tan Mastic with Tile Debris	Chrysotile	Trace			
		Layer: Tan Tile	Chrysotile	5 %			
		Layer: Black Mastic with Tile Debris	Chrysotile	Trace			
Total Composite Values of Fibrous Components:		Asbestos (3%)					
Cellulose (Trace)							
58803311111	50637329						
		Layer: Light Grey Semi-Fibrous Material	Chrysotile	7 %			
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

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Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		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 Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311115	50637333						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311116	50637334						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311117	50637335						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311118	50637336						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
58803311119	50637337						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311120	50637338						
Layer: Dark Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311121	50637339						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311122	50637340						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311123	50637341						
Layer: Tan Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311124	50637342						
Layer: Light Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
58803311125	50637343						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311126	50637344						
Layer: Grey Non-Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

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Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (2%)					
Cellulose (Trace)							
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311129	50637347						
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 Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311130	50637348						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311131	50637349						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Tile Debris		Chrysotile	Trace				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311132	50637350						
Layer: Beige Tile		Chrysotile	2 %				
Layer: Tan Mastic with Debris			ND				
Total Composite Values of Fibrous Components:		Asbestos (2%)					
Cellulose (Trace)							
58803311133	50637351						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

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Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos 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 Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311135	50637353						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311136	50637354						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311137	50637355						
Layer: Beige Tile			ND				
Layer: Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311138	50637356						
Layer: Beige Tile			ND				
Layer: Black and Tan Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311139	50637357						
Layer: Light Grey Semi-Fibrous Material		Chrysotile	7 %				
Total Composite Values of Fibrous Components:		Asbestos (7%)					
Cellulose (Trace)							
58803311140	50637358						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
58803311141	50637359						
Layer: Tan Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: EnviroQuest, Inc.

Report Number: B146154

Date Printed: 03/14/11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
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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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Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-133

Job No. F55B642B



EnviroQuest

WAIANAPANAPA

PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

Page: 1 of 23

Material Description: 12x12" CERAMIC TILE w/Tan cracks tan adhesive
 Sample No. 58803311011 Location: gray leveling comp. % Asb. Friable Non-friable
 ↓ 02 CABIN # 3 / Bathroom
 ↓ 03 STORAGE KITCHEN

CONDITION: 5 % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

Material Description: 12"x12" light-gray tile w/white specks tan mortar
 Sample No. 5880331104 Location: Bedroom
 ↓ 05 CABIN # 5 / Bedroom by kitchen

CONDITION: 10 % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

Sampled By: J. Jendrowski
 DOH Cert No: 0175
 Delivered to Lab By: Fed-Ex
 Relinquished By/Date/Time: [Signature] 3/7/11 10:00
 Relinquished By/Date/Time:

TURNAROUND TIME: < 12 Hours 24 Hours 3 Days 5 Days

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

98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eqi@enviroquestinc.com

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

13280-134



EnviroQuest

WAIANAPANAPA

PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

Page: 2 of 23

Material Description: 12"x12" BROWN SPECKLED TILE - Bk. Mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331107	CABIN #3 / Kitchen Area		
↓ 08			
- 09			
CONDITION: 10 % Damaged: % Localized: % Distributed: Total Material Quantity:			
Surfacing Material <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.		TSI <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	
<input type="checkbox"/> % Crumbling - <input type="checkbox"/> % Delaminating - <input type="checkbox"/> % H ₂ O/Gauges -		<input type="checkbox"/> % Gouge/Punct - <input type="checkbox"/> % Crushed - <input type="checkbox"/> % H ₂ O Stains -	
<input type="checkbox"/> Contact Potential <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	
<input type="checkbox"/> Vibration Potential <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> % Crumbling - <input type="checkbox"/> % Delaminating - <input type="checkbox"/> % H ₂ O/Gauges -	
<input type="checkbox"/> Air Erosion <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> OVERALL POTENTIAL RATING <input type="checkbox"/> Significant Damage <input type="checkbox"/> Damage <input type="checkbox"/> Minimal Damage	

Material Description: GRAY SINK MASTIC		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331110	CABIN #3 / Under sink		
CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:			
Surfacing Material <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.		TSI <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	
<input type="checkbox"/> % Crumbling - <input type="checkbox"/> % Delaminating - <input type="checkbox"/> % H ₂ O/Gauges -		<input type="checkbox"/> % Gouge/Punct - <input type="checkbox"/> % Crushed - <input type="checkbox"/> % H ₂ O Stains -	
<input type="checkbox"/> Contact Potential <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	
<input type="checkbox"/> Vibration Potential <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> % Crumbling - <input type="checkbox"/> % Delaminating - <input type="checkbox"/> % H ₂ O/Gauges -	
<input type="checkbox"/> Air Erosion <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> OVERALL POTENTIAL RATING <input type="checkbox"/> Significant Damage <input type="checkbox"/> Damage <input type="checkbox"/> Minimal Damage	

Material Description: Tan sealant		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331111	ROOF - pipe penetration		
CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:			
Surfacing Material <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.		TSI <input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	
<input type="checkbox"/> % Crumbling - <input type="checkbox"/> % Delaminating - <input type="checkbox"/> % H ₂ O/Gauges -		<input type="checkbox"/> % Gouge/Punct - <input type="checkbox"/> % Crushed - <input type="checkbox"/> % H ₂ O Stains -	
<input type="checkbox"/> Contact Potential <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> Sig. Damage <input type="checkbox"/> Damaged <input type="checkbox"/> Good Cond.	
<input type="checkbox"/> Vibration Potential <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> % Crumbling - <input type="checkbox"/> % Delaminating - <input type="checkbox"/> % H ₂ O/Gauges -	
<input type="checkbox"/> Air Erosion <input type="checkbox"/> High <input type="checkbox"/> Moderate <input type="checkbox"/> Low		<input type="checkbox"/> OVERALL POTENTIAL RATING <input type="checkbox"/> Significant Damage <input type="checkbox"/> Damage <input type="checkbox"/> Minimal Damage	

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-135

Job No. F55B642B



EnviroQuest

Waiianapanapa

PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

Page: 3 of 23

Material Description: 12"x12" tan tile w/ white & brown specks		Location: blk. mastic		Friable/Non-friable	
Sample No.				% Asb.	Asb. Type
58803311 12	CABIN #8 /	Kitchen	bedroom by kitchen		
13					
14					

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	% Crumbling	<input type="checkbox"/> Sig. Damage	% Gauge/Punct.	<input type="checkbox"/> Sig. Damage	% Crumbling
<input type="checkbox"/> Damaged	% Delaminating	<input type="checkbox"/> Damaged	% Crushed	<input type="checkbox"/> Damaged	% Delaminating
<input type="checkbox"/> Good Cond.	% H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	% H ₂ O Stains	<input type="checkbox"/> Good Cond.	% H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input checked="" type="checkbox"/> Damage		<input type="checkbox"/> Minimal Damage	

Material Description: 12"x12" Brown speckled tile; blk. mastic		Location: CABIN #8 /		Friable/Non-friable	
Sample No.				% Asb.	Asb. Type
58803311 15	CABIN #8 /	Hallway	bathroom		
16					
17					

CONDITION: 5% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	% Crumbling	<input type="checkbox"/> Sig. Damage	% Gauge/Punct.	<input type="checkbox"/> Sig. Damage	% Crumbling
<input type="checkbox"/> Damaged	% Delaminating	<input type="checkbox"/> Damaged	% Crushed	<input type="checkbox"/> Damaged	% Delaminating
<input type="checkbox"/> Good Cond.	% H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	% H ₂ O Stains	<input type="checkbox"/> Good Cond.	% H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input checked="" type="checkbox"/> Damage		<input type="checkbox"/> Minimal Damage	

Material Description: 9"x9" tan tile; blk. mastic		Location: CABIN #8 /		Friable/Non-friable	
Sample No.				% Asb.	Asb. Type
58803311 18	CABIN #8 /	STORAGE			
19					
20					

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	% Crumbling	<input type="checkbox"/> Sig. Damage	% Gauge/Punct.	<input type="checkbox"/> Sig. Damage	% Crumbling
<input type="checkbox"/> Damaged	% Delaminating	<input type="checkbox"/> Damaged	% Crushed	<input type="checkbox"/> Damaged	% Delaminating
<input type="checkbox"/> Good Cond.	% H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	% H ₂ O Stains	<input type="checkbox"/> Good Cond.	% H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input checked="" type="checkbox"/> Damage		<input type="checkbox"/> Minimal Damage	

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Existing Conditions - Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

13280-136



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK
CABIN PARK IMPROVEMENTS

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Material Description: CONCRETE SINK MASTIC		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331121	CABIN #8 - UNDERSINK mastic		

CONDITION:	% Damaged: 25	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material				
<input type="checkbox"/> Sig. Damage	% Crumbling -	<input type="checkbox"/> Sig. Damage	% Gouge/Punct -	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	% Delaminating -	<input type="checkbox"/> Damaged	% Crushed -	<input type="checkbox"/> Damaged
<input type="checkbox"/> Good Cond.	% H2O/Gouges -	<input type="checkbox"/> Good Cond.	% H2O Stains -	<input type="checkbox"/> Good Cond.
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input checked="" type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage	

Material Description: Sealant		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331122	CABIN #8 - ROOF / pipe penetration		

CONDITION:	% Damaged: 10	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material				
<input type="checkbox"/> Sig. Damage	% Crumbling -	<input type="checkbox"/> Sig. Damage	% Gouge/Punct -	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	% Delaminating -	<input type="checkbox"/> Damaged	% Crushed -	<input type="checkbox"/> Damaged
<input type="checkbox"/> Good Cond.	% H2O/Gouges -	<input type="checkbox"/> Good Cond.	% H2O Stains -	<input type="checkbox"/> Good Cond.
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage	

Material Description: Sealant		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331123	CABIN #8 - ROOF / corrugated ROOF SEAM		

CONDITION:	% Damaged: 10	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material				
<input type="checkbox"/> Sig. Damage	% Crumbling -	<input type="checkbox"/> Sig. Damage	% Gouge/Punct -	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	% Delaminating -	<input type="checkbox"/> Damaged	% Crushed -	<input type="checkbox"/> Damaged
<input type="checkbox"/> Good Cond.	% H2O/Gouges -	<input type="checkbox"/> Good Cond.	% H2O Stains -	<input type="checkbox"/> Good Cond.
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage	

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-137

Job No. F55B642B



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

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CABIN PARK IMPROVEMENTS

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Material Description: 12"x12" Brown speckled tile; blk. mastic Friable
Non-Friable

Sample No.	Location	% Asb.	Asb. Type
58803311 24	CABIN # 10 / Kitchen bedroom by kitchen bedroom		
↓ 25			
26			

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -
Contact Potential	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
Vibration Potential	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
Air Erosion	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage		<input checked="" type="checkbox"/> Damage		<input type="checkbox"/> Minimal Damage

Material Description: 9"x9" tan tile w/ maroon white speckles; blk. mastic Friable
Non-Friable

Sample No.	Location	% Asb.	Asb. Type
58803311 27	CABIN # 10 / STORAGE		
↓ 28			
29			

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -
Contact Potential	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
Vibration Potential	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
Air Erosion	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage		<input checked="" type="checkbox"/> Damage		<input type="checkbox"/> Minimal Damage

Material Description: CERAMIC SINK MASTIC Friable
Non-Friable

Sample No.	Location	% Asb.	Asb. Type
58803311 30	CABIN # 10 - Undersink mastic		

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -
Contact Potential	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
Vibration Potential	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
Air Erosion	<input type="checkbox"/> High		<input checked="" type="checkbox"/> Moderate		<input type="checkbox"/> Low
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage		<input checked="" type="checkbox"/> Damage		<input type="checkbox"/> Minimal Damage

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

13280-138



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

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Material Description: Sealant				Friable Non-friable
Sample No.	Location		% Asb.	Asb. Type
5880.5311.31	CABIN #10 - ROOF SEAM (CORRUGATED)			

CONDITION: 10% Damaged:	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material	TSI	Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> Sig. Damage	
<input type="checkbox"/> Damaged	<input type="checkbox"/> Damaged	<input type="checkbox"/> Damaged	
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> Good Cond.	
<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> % Crumbling -	
<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> % Delaminating -	
<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> % H ₂ O/Gouges -	
Contact Potential	Vibration Potential	Air Erosion	OVERALL POTENTIAL RATING
<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> Significant Damage
<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Damage
<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Minimal Damage

Material Description: Sealant				Friable Non-friable
Sample No.	Location		% Asb.	Asb. Type
5880.5311.32	CABIN #10 - Pipe Penetration Sealant			

CONDITION: 10% Damaged:	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material	TSI	Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> Sig. Damage	
<input type="checkbox"/> Damaged	<input type="checkbox"/> Damaged	<input type="checkbox"/> Damaged	
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> Good Cond.	
<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> % Crumbling -	
<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> % Delaminating -	
<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> % H ₂ O/Gouges -	
Contact Potential	Vibration Potential	Air Erosion	OVERALL POTENTIAL RATING
<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> Significant Damage
<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Damage
<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Minimal Damage

Material Description: 12"x12" tan w/ brown - white streaks bro				Friable Non-friable
Sample No.	Location		% Asb.	Asb. Type
5880.5311.33	CABIN #12 / Kitchen			
↓ 34	/ bedroom by kitchen			
↓ 35	/ bedroom			

CONDITION: 10% Damaged:	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material	TSI	Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> Sig. Damage	
<input type="checkbox"/> Damaged	<input type="checkbox"/> Damaged	<input type="checkbox"/> Damaged	
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> Good Cond.	
<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> % Crumbling -	
<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> % Delaminating -	
<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> % H ₂ O/Gouges -	
Contact Potential	Vibration Potential	Air Erosion	OVERALL POTENTIAL RATING
<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> High	<input type="checkbox"/> Significant Damage
<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Moderate	<input type="checkbox"/> Damage
<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input type="checkbox"/> Low	<input checked="" type="checkbox"/> Minimal Damage

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PLM DATA SHEET

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Date: 3/3/11

CABIN PARK IMPROVEMENTS

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Material Description: 12"x12" BROWN SPECKLED TILE : blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331136	CABIN #12 / Hallway		
↓ 37			
↓ 38			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage, Damaged, Good Cond. Crumbling, % Delaminating, % H₂O/Gauges - High, Moderate, Low

TSI: Sig. Damage, Damaged, Good Cond. % Gauge/Punct - % Crushed - % H₂O Stains - High, Moderate, Low

Misc.: Sig. Damage, Damaged, Good Cond. Crumbling, % Delaminating, % H₂O/Gauges - High, Moderate, Low

OVERALL POTENTIAL RATING: Significant Damage, Damage, Minimal Damage

Material Description: 9"x9" tan tile : blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331139	CABIN #12 / STORAGE Bedroom (replacement tile)		
↓ 40			
↓ 41			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage, Damaged, Good Cond. Crumbling, % Delaminating, % H₂O/Gauges - High, Moderate, Low

TSI: Sig. Damage, Damaged, Good Cond. % Gauge/Punct - % Crushed - % H₂O Stains - High, Moderate, Low

Misc.: Sig. Damage, Damaged, Good Cond. Crumbling, % Delaminating, % H₂O/Gauges - High, Moderate, Low

OVERALL POTENTIAL RATING: Significant Damage, Damage, Minimal Damage

Material Description: 9"x9" Brown speckled tile : blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331142	CABIN #12 / Bedroom replacement tile		
↓ 43			
↓ 44			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage, Damaged, Good Cond. Crumbling, % Delaminating, % H₂O/Gauges - High, Moderate, Low

TSI: Sig. Damage, Damaged, Good Cond. % Gauge/Punct - % Crushed - % H₂O Stains - High, Moderate, Low

Misc.: Sig. Damage, Damaged, Good Cond. Crumbling, % Delaminating, % H₂O/Gauges - High, Moderate, Low

OVERALL POTENTIAL RATING: Significant Damage, Damage, Minimal Damage

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

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PLM DATA SHEET

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Material Description: 9"x9" tan w/ maroon & white speck & blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
588033145	CABIN # 12 / bedroom Replacement tile		
↓ 46 47			

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges

Contact Potential: High Moderate Low
 Vibration Potential: High Moderate Low
 Air Erosion: High Moderate Low
 OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 9"x9" tan w/ white speck & blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
588033148	CABIN # 12 / Bedroom Replacement tile		
↓ 49 50			

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges

Contact Potential: High Moderate Low
 Vibration Potential: High Moderate Low
 Air Erosion: High Moderate Low
 OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: Sealant (silver painted)		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
588033151	CABIN # 12 - roof / pipe penetration		

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges

Contact Potential: High Moderate Low
 Vibration Potential: High Moderate Low
 Air Erosion: High Moderate Low
 OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-141

Job No. F55B642B



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PLM DATA SHEET

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Material Description: SEALANT (BLK. FAN)		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331152	CABIN #12 - ROOF SEAM		

CONDITION: Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling - _____ % Delaminating - _____ % H₂O/Gouges - _____

TSP: Sig. Damage Damaged Good Cond. % Gouge/Punct - _____ % Crushed - _____ % H₂O Stains - _____

Misc: Sig. Damage Damaged Good Cond. % Crumbling - _____ % Delaminating - _____ % H₂O/Gouges - _____

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12"x12" Brown tile w/ tan grout & mastic (Latex)		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331153	CABIN #11 / Kitchen		
54	bedroom by kitchen		
55	bedroom		

CONDITION: Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling - _____ % Delaminating - _____ % H₂O/Gouges - _____

TSP: Sig. Damage Damaged Good Cond. % Gouge/Punct - _____ % Crushed - _____ % H₂O Stains - _____

Misc: Sig. Damage Damaged Good Cond. % Crumbling - _____ % Delaminating - _____ % H₂O/Gouges - _____

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: White Lime mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331156	CABIN #1 - Underside mastic		

CONDITION: Damaged: _____ % Localized: _____ % Distributed: _____ Total Material Quantity: _____

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling - _____ % Delaminating - _____ % H₂O/Gouges - _____

TSP: Sig. Damage Damaged Good Cond. % Gouge/Punct - _____ % Crushed - _____ % H₂O Stains - _____

Misc: Sig. Damage Damaged Good Cond. % Crumbling - _____ % Delaminating - _____ % H₂O/Gouges - _____

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Material Description: Sealant		Location		Friable Non-Friable	
Sample No.				% Asb.	Asb. Type
5880381157	CABIN # 11 - Roof	pipe penetration	sealant		

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: Sig. Damage Damaged Good Cond. % Gouges/Punct - % Crushed - % H₂O Stains -

Misc: 4R0. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Emission: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: Sealant		Location		Friable Non-Friable	
Sample No.				% Asb.	Asb. Type
5880381158	CABIN # 11 - Roof	Corrugated	Roof Seam		

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: Sig. Damage Damaged Good Cond. % Gouges/Punct - % Crushed - % H₂O Stains -

Misc: 4R0. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Emission: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12x12 cream w/fan speck flc; blk. marbl		Location		Friable Non-Friable	
Sample No.				% Asb.	Asb. Type
5880381159	CABIN # 9	Kitchen	bedroom by kitchen		
↓	60		bedroom		

CONDITION: 10% Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: Sig. Damage Damaged Good Cond. % Gouges/Punct - % Crushed - % H₂O Stains -

Misc: 4R0. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Emission: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

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Material Description: 9'x9" tan tile & blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
58803311621	CABIN #9 - STORAGE		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling % Delaminating % H₂O/Gouges High Moderate Low

TSI: Sig. Damage Damaged Good Cond. % Gouge/Punct. % Crushed % H₂O Stains High Moderate Low

Misc.: Sig. Damage Damaged Good Cond. % Crumbling % Delaminating % H₂O/Gouges

Contact Potential: High Moderate Low
 Vibration Potential: High Moderate Low
 Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: GRAY SINK MASTIC		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331165	CABIN #9 - Undersink mastic		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling % Delaminating % H₂O/Gouges High Moderate Low

TSI: Sig. Damage Damaged Good Cond. % Gouge/Punct. % Crushed % H₂O Stains High Moderate Low

Misc.: Sig. Damage Damaged Good Cond. % Crumbling % Delaminating % H₂O/Gouges

Contact Potential: High Moderate Low
 Vibration Potential: High Moderate Low
 Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: Sealant		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331166	CABIN #9 - Roof pipe penetration		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material: Sig. Damage Damaged Good Cond. % Crumbling % Delaminating % H₂O/Gouges High Moderate Low

TSI: Sig. Damage Damaged Good Cond. % Gouge/Punct. % Crushed % H₂O Stains High Moderate Low

Misc.: Sig. Damage Damaged Good Cond. % Crumbling % Delaminating % H₂O/Gouges

Contact Potential: High Moderate Low
 Vibration Potential: High Moderate Low
 Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Material Description: Sealant Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
58803311 07	CABIN #9 - Roof Seam Corrugated		

CONDITION: 10 % Damaged: Surfacting Material

<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> % Localized	<input type="checkbox"/> % Distributed	<input type="checkbox"/> Total Material Quantity	<input type="checkbox"/> Misc.
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
		<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges

CONTACT POTENTIAL: High Moderate Low
 VIBRATION POTENTIAL: High Moderate Low
 AIR EROSION: High Moderate Low
 OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12"x12" brown speckled tile - blk. mastic Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
58803311 08	CABIN #7 / kitchen kitchen bedroom		

CONDITION: 5 % Damaged: Surfacting Material

<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> % Localized	<input type="checkbox"/> % Distributed	<input type="checkbox"/> Total Material Quantity	<input type="checkbox"/> Misc.
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
		<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges

CONTACT POTENTIAL: High Moderate Low
 VIBRATION POTENTIAL: High Moderate Low
 AIR EROSION: High Moderate Low
 OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12"x12" tan w/ brown & white speckles - blk. mastic Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
58803311 11	CABIN #7 / bedroom Hallway bathroom		

CONDITION: % Damaged: Surfacting Material

<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> % Localized	<input type="checkbox"/> % Distributed	<input type="checkbox"/> Total Material Quantity	<input type="checkbox"/> Misc.
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
		<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges

CONTACT POTENTIAL: High Moderate Low
 VIBRATION POTENTIAL: High Moderate Low
 AIR EROSION: High Moderate Low
 OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Material Description: 9"X9" tan tile : blk. mastic			Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type	
58203311 7A1	CABIN # 7 / CORNER			
↓				

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

Material Description: White sink mastic			Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type	
58203311 77	CABIN # 7 - UNDER SINK MASTIC			

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

Material Description: Sealant			Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type	
58203311 78	CABIN # 7 - ROOF pine penetration sealant			

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

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Material Description: Sealant		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
SK80381179	CABIN # 7 - Roof Corrugated Seam		

CONDITION: Damaged: % Damaged: % Localized: % Distributed: Total Material Quantity: Misc.

Surfacing Material: Sig. Damage % Crumbling % Damaged % Delaminating % H₂O/Gouges Good Cond. Sig. Damage % Crumbling % Damaged % Delaminating % H₂O/Gouges Good Cond.

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12"x12" Brown Speckled tile; blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
SK80381120	CABIN # 4 / Kitchen		
81			
82			

CONDITION: Damaged: % Damaged: % Localized: % Distributed: Total Material Quantity: Misc.

Surfacing Material: Sig. Damage % Crumbling % Damaged % Delaminating % H₂O/Gouges Good Cond. Sig. Damage % Crumbling % Damaged % Delaminating % H₂O/Gouges Good Cond.

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12"x12" tan w/ brown grout; blk mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
SK80381183	CABIN # 4 / bathroom		
84			
85	Kitchen (Replacement tile)		

CONDITION: Damaged: % Damaged: % Localized: % Distributed: Total Material Quantity: Misc.

Surfacing Material: Sig. Damage % Crumbling % Damaged % Delaminating % H₂O/Gouges Good Cond. Sig. Damage % Crumbling % Damaged % Delaminating % H₂O/Gouges Good Cond.

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Material Description: 2x12 light gray w/ white & maroon specks				Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type		
5880331186	bedroom by kitchen				
↓ 87	CABIN #4				
↓ 88	Hallway				
	bedroom				

CONDITION:		% Damaged: <input checked="" type="checkbox"/> 0	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

Material Description: CERAM SINK MASTIC				Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type		
5880331189	CABIN #4 - Undersink mastic				

CONDITION:		% Damaged: <input checked="" type="checkbox"/> 0	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

Material Description: Sealant				Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type		
5880331190	CABIN #4 - pipe penetration sealant				

CONDITION:		% Damaged: <input checked="" type="checkbox"/> 0	% Localized:	% Distributed:	Total Material Quantity:
Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

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Material Description: sealant		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331191	CABIN # 4 - Roof Seam		

CONDITION: 10 % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage, Damaged, Good Cond. | Crumbling, Delaminating, H₂O/Gouges | Sig. Damage, Damaged, Good Cond.

TSI: % Gouges/Punct., % Crushed, % H₂O Stains | Moderate, Moderate, Low

Misc.: Sig. Damage, Damaged, Good Cond. | Crumbling, Delaminating, H₂O/Gouges

Contact Potential: High, Moderate, Low

Vibration Potential: High, Moderate, Low

Air Erosion: High, Moderate, Low

OVERALL POTENTIAL RATING: Significant Damage, Damage, Minimal Damage

Material Description: 12"x12" Brown speckled tile : blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331192	CABIN # 5 / kitchen area		
↓ 93			
↓ 94			

CONDITION: 10 % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage, Damaged, Good Cond. | Crumbling, Delaminating, H₂O/Gouges | Sig. Damage, Damaged, Good Cond.

TSI: % Gouges/Punct., % Crushed, % H₂O Stains | Moderate, Moderate, Low

Misc.: Sig. Damage, Damaged, Good Cond. | Crumbling, Delaminating, H₂O/Gouges

Contact Potential: High, Moderate, Low

Vibration Potential: High, Moderate, Low

Air Erosion: High, Moderate, Low

OVERALL POTENTIAL RATING: Significant Damage, Damage, Minimal Damage

Material Description: 12"x12" light gray tile w/ brown mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331193	CABIN # 5 / bedroom hallway		
↓ 96			
↓ 97			

CONDITION: 10 % Damaged: % Localized: % Distributed: Total Material Quantity:

Surfacing Material: Sig. Damage, Damaged, Good Cond. | Crumbling, Delaminating, H₂O/Gouges | Sig. Damage, Damaged, Good Cond.

TSI: % Gouges/Punct., % Crushed, % H₂O Stains | Moderate, Moderate, Low

Misc.: Sig. Damage, Damaged, Good Cond. | Crumbling, Delaminating, H₂O/Gouges

Contact Potential: High, Moderate, Low

Vibration Potential: High, Moderate, Low

Air Erosion: High, Moderate, Low

OVERALL POTENTIAL RATING: Significant Damage, Damage, Minimal Damage

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Material Description: 6" x 12" Cream w/ tan specks, blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
58803811 98 ↓ 100	CABIN #5 - Bathroom		

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

Material Description: Cellar mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
58803811 101 ↓ 100	CABIN #5 - Under sink mastic		

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

Material Description: 12" x 12" Brown speckled tile - brown mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
58803811 102 ↓ 100	CABIN #6 - Kitchen		

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

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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

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Material Description: 12"x12" light gray tile; blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331105	CABIN #6 - Bedrooms/Storage Hallway		
106			
107			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surface Material: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: Sig. Damage Damaged Good Cond. % Gouges/Punct - % Crushed - % H₂O Stains -

Misc: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12"x12" cream w/fan speckles; blk. mastic		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331102	CABIN #6 - Bathroom		
109			
110			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surface Material: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: Sig. Damage Damaged Good Cond. % Gouges/Punct - % Crushed - % H₂O Stains -

Misc: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: CERAMIC MASTIC		Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type
5880331111	CABIN #6 - Under sink mastic		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surface Material: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

TSI: Sig. Damage Damaged Good Cond. % Gouges/Punct - % Crushed - % H₂O Stains -

Misc: Sig. Damage Damaged Good Cond. % Crumbling - % Delaminating - % H₂O/Gouges -

Contact Potential: High Moderate Low

Vibration Potential: High Moderate Low

Air Erosion: High Moderate Low

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

13280-151



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK
CABIN PARK IMPROVEMENTS

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Material Description: 12"x12" light gray tile w/ white & maroon specks Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
58803311 112	CABIN #1 / kitchen		
113			
114			

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

Material Description: 12"x12" cream tile w/ tan specks brown adhesive Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
58803311 115	CABIN #1 / Hallway		
116			
117			

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

Material Description: 12"x12 brown speckled blk mastic Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
58803311 118	CABIN #1 / Bedrooms		
119			
120			

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

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey

Job No. F55B642B

13280-152



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

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CABIN PARK IMPROVEMENTS

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Material Description: 12x12 tan w/ maroon - white specks		Friable Non-friable	
Sample No. 5880331121	Location BK. MASTIC	% Asb.	Asb. Type
122	CABIN #1 / STORAGE		
123			

CONDITION: 8	% Damaged: 8	% Localized: -	% Distributed: -	Total Material Quantity:
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage	

Material Description: MASTIC / GRAY		Friable Non-friable	
Sample No. 5880331124	Location Kitchen under sink	% Asb.	Asb. Type
	MASTIC		

CONDITION: 0	% Damaged: 0	% Localized: -	% Distributed: -	Total Material Quantity:
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage	

Material Description: Sealant		Friable Non-friable	
Sample No. 5880331125	Location CABIN #1 - Roof	% Asb.	Asb. Type
	pine penetration sealant		

CONDITION: 10	% Damaged: 10	% Localized: -	% Distributed: -	Total Material Quantity:
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
Vibration Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low	
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage	

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Existing Conditions -
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Job No. F55B642B

13280-153



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

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Material Description: cealant Friable
~~Non-friable~~

Sample No.	Location	% Asb.	Asb. Type
880331124	CABIN # 1 - Roof Corrugated steel		

CONDITION: 10

<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12" x 12" Brown speckled tile & blk. mastic Friable
~~Non-friable~~

Sample No.	Location	% Asb.	Asb. Type
880331127	CABIN # 2 / Kitchen		
↓ 128			
↓ 129			

CONDITION: 5

<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

Material Description: 12" x 12" light gray w/ white - maroon speckles Friable
~~Non-friable~~

Sample No.	Location	% Asb.	Asb. Type
880331180	CABIN # 2 / Bedrooms & Hallway		
↓ 131			
↓ 132			

CONDITION: 5

<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling -
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -

OVERALL POTENTIAL RATING: Significant Damage Damage Minimal Damage

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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

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Material Description: 12" x 12" Cream w/ tan specks - bro. adhesive Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
5880 331133	CABIN #2		
↓ 134	Replacement tile		
↓ 135	Hall; kitchen bedroom		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct.	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

Material Description: 12" x 12" Brown Tan speckled - blk. mastic Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
5880 331136	CABIN #2 - Bathroom		
↓ 137			
↓ 138			

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct.	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

Material Description: Cream Mastic Friable
Non-friable

Sample No.	Location	% Asb.	Asb. Type
5880 331139	CABIN #2 - Undercabinet mastic		

CONDITION: % Damaged: % Localized: % Distributed: Total Material Quantity: _____

Surfacing Material		TSI		Misc.	
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct.	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbling
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges
Contact Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Vibration Potential	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
Air Erosion	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Moderate	<input type="checkbox"/> Low		
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input type="checkbox"/> Minimal Damage		

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Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-155

Job No. F55B642B



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PLM DATA SHEET

Project No.: 5880

Project Name: STATE PARK

Date: 3/3/11

CABIN PARK IMPROVEMENTS

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Material Description: Sealant				Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type		
5803811140	CABIN # 2 pipe penetration Sealant				

CONDITION: 10% Damaged: <u>10</u>		% Localized: <u> </u>		% Distributed: <u> </u>		Total Material Quantity:	
Surfacing Material		TSI		Misc.			
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing -		
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -		
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -		
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low				
Vibration Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low				
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low				
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input checked="" type="checkbox"/> Minimal Damage				

Material Description: Sealant				Friable Non-friable	
Sample No.	Location	% Asb.	Asb. Type		
5803811141	CABIN # 2 - Roof Corrugated Seam				

CONDITION: 10% Damaged: <u>10</u>		% Localized: <u> </u>		% Distributed: <u> </u>		Total Material Quantity:	
Surfacing Material		TSI		Misc.			
<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Gouge/Punct -	<input type="checkbox"/> Sig. Damage	<input type="checkbox"/> % Crumbing -		
<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Crushed -	<input type="checkbox"/> Damaged	<input type="checkbox"/> % Delaminating -		
<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O Stains -	<input type="checkbox"/> Good Cond.	<input type="checkbox"/> % H ₂ O/Gouges -		
Contact Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low				
Vibration Potential	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low				
Air Erosion	<input type="checkbox"/> High	<input type="checkbox"/> Moderate	<input checked="" type="checkbox"/> Low				
OVERALL POTENTIAL RATING	<input type="checkbox"/> Significant Damage	<input type="checkbox"/> Damage	<input checked="" type="checkbox"/> Minimal Damage				

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

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

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Lead
Analytical Report

Appendix B



EnviroQuest, Inc.

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-157

Job No. F55B642B

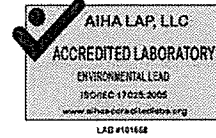


Hygeia Laboratories Inc.

82 W. Sierra Madre Blvd
Sierra Madre, CA 91024-2434
(626) 355-4711 (626) 355-4497 Fax

Analytical Report

March 9, 2011



Hygeia Reference No.: **25855 11 0129**

Date Sampled: March 3, 2011

Date Received: March 7, 2011

Date Analyzed: March 9, 2011

Analyst: Nahid Motamedi

Mr. Jim Cardenas
EnviroQuest, Inc
98-029 Hekaha St., Bldg.5, Ste 21
Aiea, HI 96701-4917

Client Ref. 5880 Weianapanapa 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

<u>Hygeia Sample ID</u>	<u>Client Sample ID</u>	<u>TTLc Lead Conc. (ppm)</u>	<u>TTLc Lead Conc. (wt%)</u>
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



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

Supervisor of Chemistry Laboratory
Nahid Motamedi

Sample results have not been blank corrected. All quality control results meet the QC requirements of AIHA 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.

Job No. F55B642B

Existing Conditions -
Asbestos/Lead/Hazardous Material Survey
13280-160

25855 11 0129



EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: WAIANAPANAPA STATE PARK
Location: CABIN PARK IMPROVEMENTS

Page: 1 OF 3
Date: 3/3/11
Project No.: 5220

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

Analysis:

TCLP Lead
 TCLP RCRA 8
 Total Lead

Micro ID (spore)

 WT %

Sampling Media:

Bulk Tape Wipe
 Soil Vacuum _____
 Swab Water _____

Sample #	Building	Int/Ext	Fir.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	01 CABIN # 3	EXT			Wall	WOOD	GREEN			
2	02 CABIN # 3	INT			Wall	WOOD	TAN			
3	03 CABIN # 3	INT			WINDOW FRAME	WOOD	WHITE			
4	04 CABIN # 2	EXT			Wall	WOOD	GREEN			
5	05 CABIN # 2	INT			WINDOW FRAME	WOOD	WHITE			
6	06 CABIN # 2	EXT			ROOF	METAL	ORANGE			
7	07 CABIN # 2	INT			Wall	WOOD	MARBLE			

Sampled By: JCAVENDAS
Delivered to Lab By: Fed-Ex

Relinquished By/Date/Time: [Signature]
Received By/Date/Time: [Signature] 3.7.11 9:30 AM

Relinquished By/Date/Time: _____
Received By/Date/Time: _____

Analyzed By: NR
Date Analyzed: 3-5-11

SEND ALL CORRESPONDENCE TO: _____ FAX: 808.486.5889 E-mail: eqi@enviroquestinc.com

Job No. F55B642B

25835 110129



EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: WAIANAPANAPA STATE PARK
 Location: CABIN PARK IMPROVEMENTS

Page: 2 OF 3
 Date: 3/3/11
 Project No.: 5820

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

Analysis: TCLP Lead Micro ID (spore) Bulk Tape Wipe
 TCLP RCRA 8 Soil Vacuum Water
 Total Lead WT % Swab Swab

Sample #	Building	Int/Ext	Fir.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	5820331108 CABIN # 8	INT		KITCHEN	CABINET	WOOD	PINK			
2	09 CABIN # 10	INT			DOOR	WOOD	MARBLE			
3	10 CABIN # 10	INT			WALL	WOOD	TAN			
4	11 CABIN # 10	EXT			ROOF	METAL	ORANGE			
5	12 CABIN # 9	EXT			WALL	WOOD	GREEN			
6	13 CABIN # 9	INT			WALL	WOOD	MARBLE			
7	14 CABIN # 9	INT			WINDOW FRAME	WOOD	WHITE			

Sampled By: <u>JCAWENKS</u>	Relinquished By/Date/Time: <u>[Signature]</u>	Relinquished By/Date/Time: _____	Analyzed By: <u>[Signature]</u>
Delivered to Lab By: <u>Ted-FX</u>	Received By/Date/Time: <u>[Signature]</u> 3-2-11 9:30AM	Received By/Date/Time: _____	Date Analyzed: <u>3-6-11</u>

SEND ALL CORRESPONDENCE TO: _____ FAX: 808.486.5889 E-mail: eqi@enviroquestinc.com

Existing Conditions - Asbestos/Lead/Hazardous Material Survey 13280-161



EnviroQuest

MISCELLANEOUS BULK DATA SHEET

Project Name: WAIANAPANAPA STATE PARK
Location: CABIN PARK IMPROVEMENTS

Page: 3 OF 3
Date: 3/3/11
Project No.: 5820

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

Analysis: TCLP Lead Micro ID (spore) Total Lead TCLP RCRA 8 WT %
Sampling Media: Bulk Tape Wipe Soil Vacuum Swab Water

Sample #	Building	Int/Ext	Fir.	Room	Component	Substrate	Color	% of Waste Stream	Area / Vol	Result
1	15 CABIN #9	EXT			ROOF	METAL	ORANGE			
2	16 CABIN #1	INT			ROOF	WOOD	ORANGE			
3	17 CABIN #1	EXT			WALL	WOOD	CORNFU			
4										
5										
6										
7										

Sampled By: <u>JORDENAS</u>	Relinquished By: <u>[Signature]</u>	Relinquished By/Date/Time: <u>3/1/11 9:30 AM</u>	Analyzed By: <u>175</u>
Delivered to Lab By: <u>Fed-Ex</u>	Received By: <u>[Signature]</u>	Received By/Date/Time: <u>3-1-11 9:30 AM</u>	Date Analyzed: <u>3-8-11</u>

SEND ALL CORRESPONDENCE TO: _____ FAX: 808.486.5889 E-mail: eqj@enviroquestinc.com

Job No. F55B642B

Existing Conditions - Asbestos/Lead/Hazardous Material Survey 13280-162

**Photographic
Documentation**

Appendix C



EnviroQuest, Inc.

Existing Conditions –
Asbestos/Lead/Hazardous Material Survey
13280-163

Job No. F55B642

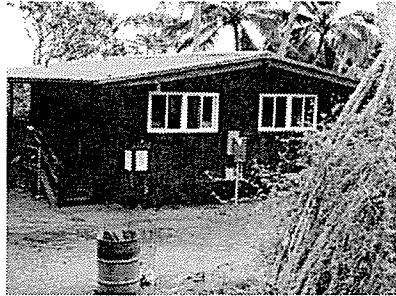


Photo #1
Cabin 1



Photo #2
Cabin 1

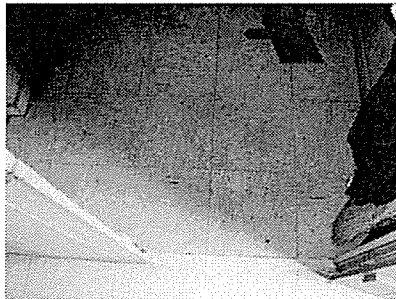


Photo #3
Storage. Asbestos containing 12"x12" tan with maroon and white specks tile.

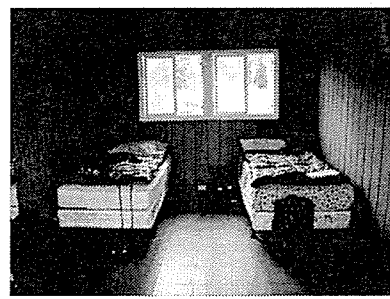


Photo #4
Bedroom by the kitchen area. Asbestos containing 12"x12" light-gray tile.

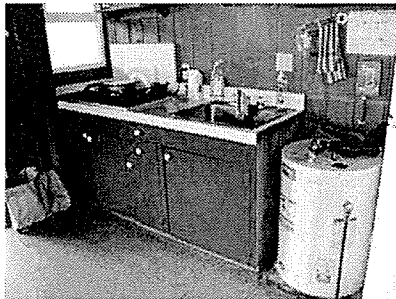


Photo #5
Non lead-based orange and green paint on the walls and kitchen cabinets.



Photo #6
Asbestos containing gray undercoating sink mastic.



EnviroQuest

PHOTOGRAPHIC LOG

Wai'anapanapa State Park
Cabin Park Improvements
CABIN 1

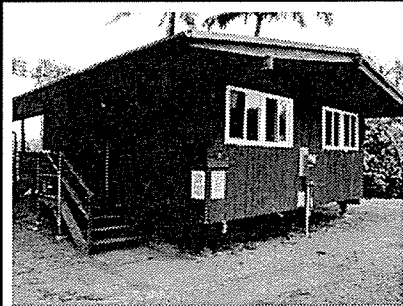


Photo #7
Cabin 2.

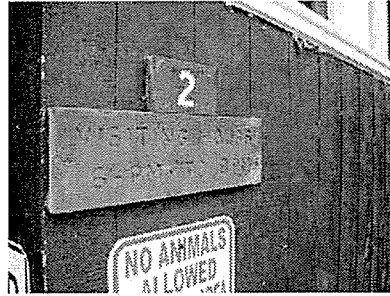


Photo #8
Cabin 2



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.

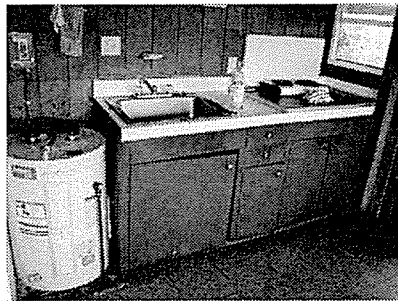


Photo #11
Non lead-based maroon paint on the kitchen cabinets.

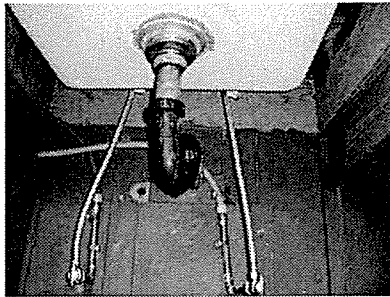


Photo #12
Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG
Wai'anapanapa State Park
Cabin Park Improvements
CABIN 2



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.

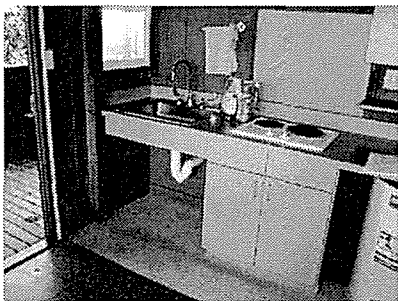


Photo #17
Non lead-based tan paint on the walls.



Photo #18
Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG
Wai'anapanapa State Park
Cabin Park Improvements
CABIN 3



Photo #19
Cabin 4

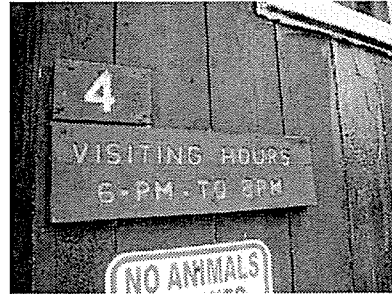


Photo #20
Cabin 4



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



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.

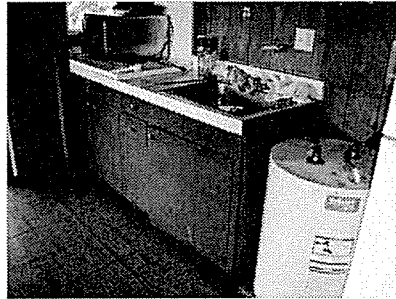


Photo #29
Non lead-based maroon paint on the cabinets.

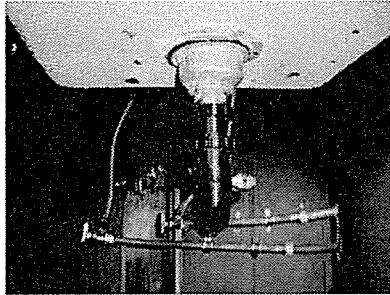


Photo #30
Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG
Wai'anapanapa State Park
Cabin Park Improvements
CABIN 5



Photo #31
Cabin 6

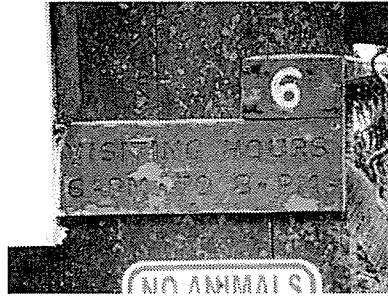


Photo #32
Cabin 6

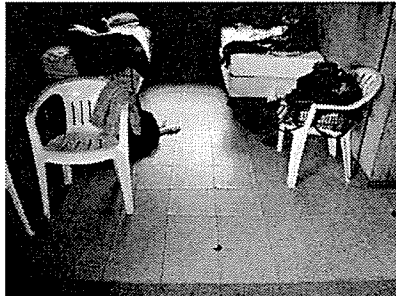


Photo #33
Asbestos containing 12"x12" light-gray tile with white specks.



Photo #34
Kitchen, Asbestos containing tile and mastic under the 12"x12" brown speckled tile.



Photo #35
Non lead-based maroon paint on the kitchen cabinets.



Photo #36
Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG
Wai'anapanapa State Park
Cabin Park Improvements
CABIN 6

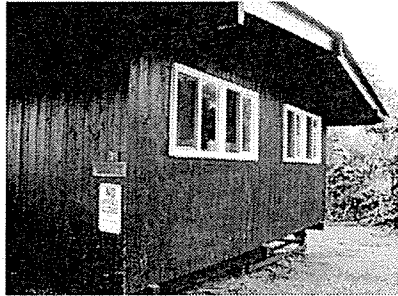


Photo #37
Cabin 7



Photo #38
Cabin 7

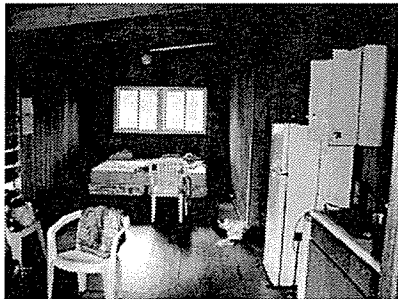


Photo #39
Kitchen. Asbestos containing tile and mastic under the 12"x12" brown speckled tile.

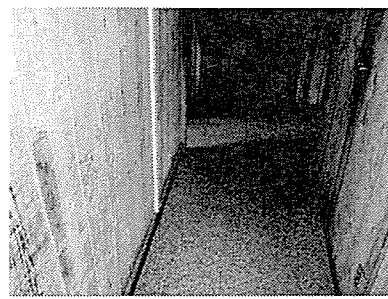


Photo #40
Asbestos containing black mastic under the 12"x12" tan tile.



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

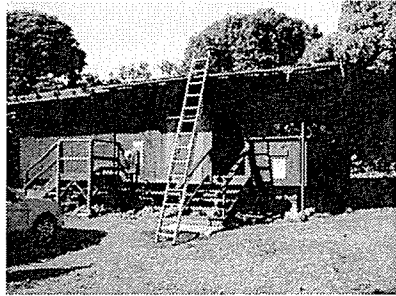


Photo #43
Cabin 8

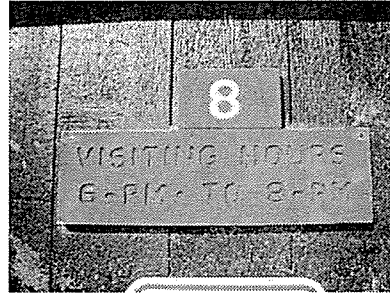


Photo #44
Cabin 8



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

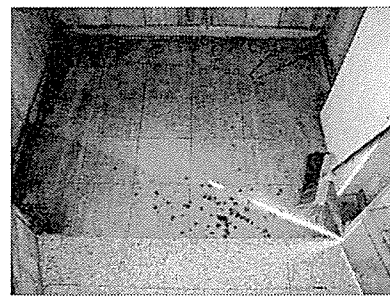


Photo #46
Storage. Asbestos containing 9'X9' tan tile and black mastic.

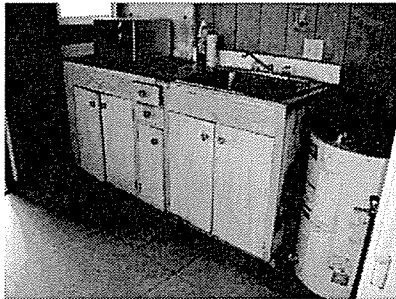


Photo #47
Non lead-based pink paint on the kitchen cabinets.



Photo #48
Asbestos containing gray undercoating sink mastic.



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



Photo #49
Cabin 9



Photo #50
Cabin 9

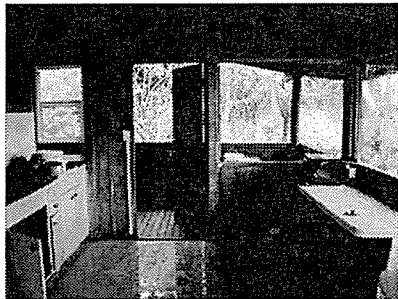


Photo #51
Kitchen. Asbestos containing black mastic under the 12"x12" cream colored tile.



Photo #52
Bedroom. Asbestos containing black mastic under the 12"x12" cream colored tile.



Photo #53
Non lead-based paint cream colored paint on the kitchen cabinets.

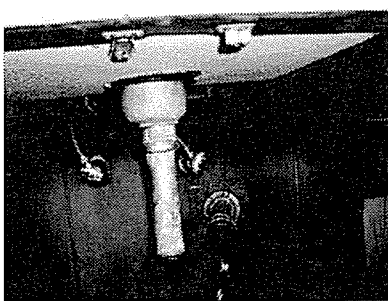


Photo #54
Asbestos containing gray undercoating sink mastic.



PHOTOGRAPHIC LOG
Wai'anapanapa State Park
Cabin Park Improvements
CABIN 9

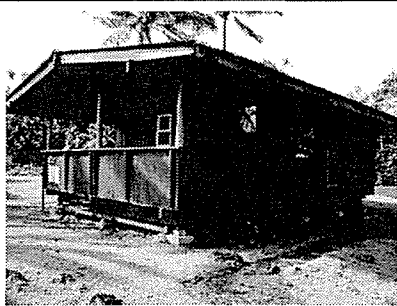


Photo #55
Cabin 10



Photo #56
Cabin 10

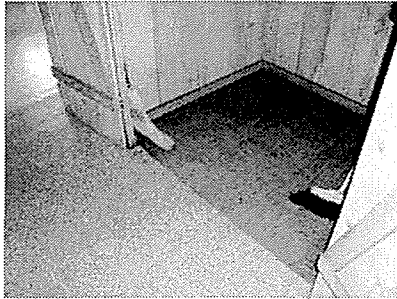


Photo #57
Asbestos containing 9"x9" tan tile with maroon and white specks and black mastic.



Photo #58
Asbestos containing black mastic under the 12"x12" cream colored tile with tan specks.



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



Photo #60
Asbestos containing gray undercoating sink mastic.



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

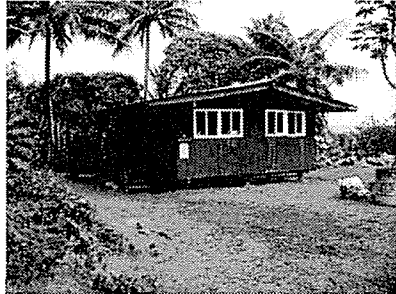


Photo #61
Cabin 11



Photo #62
Cabin 11

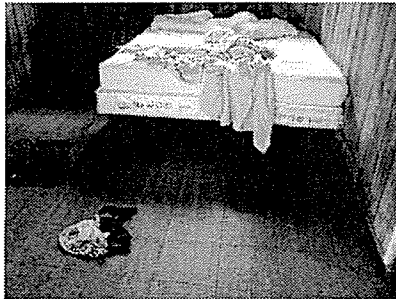


Photo #63
Bedroom by the kitchen area. Asbestos containing tile and mastic under the 12"x12" brown speckled tile.

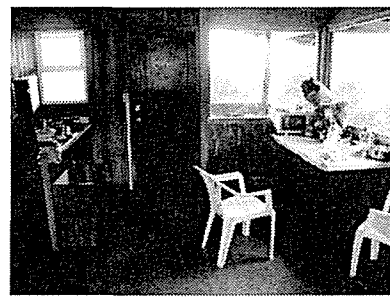


Photo #64
Kitchen. Asbestos containing tile and mastic under the 12"x12" brown speckled tile.



Photo #65
Bathroom. Asbestos containing tile and mastic under the 12"x12" brown speckled tile.



Photo #66
Non asbestos containing white undercoating sink mastic.



PHOTOGRAPHIC LOG
Wai'anapanapa State Park
Cabin Park Improvements
CABIN 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.
 - 1. Emergency procedures shall be in written form and prominently posted adjacent to the Worker Protection Notices specified hereinafter. Everyone prior to entering the work area must read and sign these procedures to acknowledge receipt of emergency exits and emergency procedures.
 - 2. Emergency planning shall include notification of police, fire, and emergency medical personnel of planned abatement activities work schedule, and layout of the work area, particularly barriers that may affect response capabilities.
 - 3. Emergency planning shall include considerations of fire, explosion, toxic atmospheres, electrical hazards, slips, trips and falls, and heat related injury. Written procedures shall be developed and employee training procedures shall be provided in 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 Qualified 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 asbestos-containing materials at an approved site in an acceptable manner.
 - 2. Post-Removal Surface Encapsulation: Procedures necessary to coat surfaces from which asbestos-containing materials have been removed and where designated on the drawings to control any residual fiber release.
- B. Air Monitoring: The process of measuring the fiber content of a specific, known, volume of air in a stated period of time.
- 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:
 - 1) 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:

- 1) 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 wet-wiping. The work areas shall be totally visibly clean and remaining material encapsulated. The Contractor, in the presence of the Qualified Consultant, shall make a complete visual inspection of the work area to ensure dust-free conditions.
- C. Once the Qualified Consultant 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.

NOTIFICATION OF DEMOLITION AND RENOVATION

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

MAIL ORIGINAL #1 TO:
State Department of Health
Noise, Radiation &
Indoor Air Quality Branch
Asbestos Abatement Office
531 Ala Moana Boulevard
Honolulu, Hawaii 96813

COPY #2 TO:
Asbestos Notification EPA
NESHAP Region IX
75 Hawthorne St., A-3-3
San Francisco, CA 94105
Phone: (415) 744-1253

COPY #3:
Contractor's Copy

OFFICE USE ONLY: Operator Project # _____ Postmark Date _____ Date Received _____
Notification/Record # _____ Date Entered/Initials _____

I. NOTIFICATION TYPE: O - Original *R - Revised C - Cancelled: _____
*If R (Revision), please complete Sections III and V in full as shown on your original and make changes only where applicable on this form.

II. OPERATIONS: D - Demo O - Ordered Demo R - Renovation E - Emer. Renovation: _____

III. FACILITY INFORMATION: (Owner, Removal Contractor, Other Operator)

A. OWNER NAME: _____
Address _____ City _____
State _____ Zip _____ Contact _____ Telephone (____) _____

B. REMOVAL CONTRACTOR: _____
Address _____ City _____
State _____ Zip _____ Contact _____ Telephone (____) _____

C. OTHER OPERATOR: _____
Address _____ City _____
State _____ Zip _____ Contact _____ Telephone (____) _____

IV. IS ASBESTOS PRESENT? (YES/NO) _____

V. FACILITY DESCRIPTION: (Including building name, number, floor and/or room number)

Building Name: _____
Address _____
City _____ State _____ County _____
Site Location: _____
Building Size: (Sq. ft.) _____ (No. of Floors) _____ Age in Years: _____
Present Use: _____ Prior Use: _____

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL:

VII. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: 1. Regulated ACM to be removed 2. Category I ACM not removed 3. Category II ACM not removed	RACM To Be Removed	Nonfriable Asbestos Material Not To Be Removed		Indicated Unit of Measurement Below	
		CAT I	CAT II	Unit	Unit
Pipes				Ln Ft:	Ln m:
Surface Area				Sq Ft:	Sq m:
Vol RACM off Facility Component				Cu Ft:	Cu m:
Nature of materials: (e.g. VAT, roofing, etc.) _____					

VIII. SCHEDULED DATES ASBESTOS REMOVAL: (MM/DD/YY) Start: ____/____/____ Complete ____/____/____

IX. SCHEDULED DATES DEMO/RENOVATION: (MM/DD/YY) Start: ____/____/____ Complete ____/____/____

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

X. DESCRIPTION OF PLANNED DEMOLITION/RENOVATION WORK & METHOD(S) TO BE USED:

XI. DESCRIPTION OF WORK PRACTICE AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION/RENOVATION SITE:

XII. PROJECT SUPERVISOR: Name _____
Certification #: _____ Course Provider: _____

XIII. WASTE TRANSPORTER: #1
Name _____
Address _____ City _____ State _____ Zip _____
Contact Person: _____ Telephone (____) _____

WASTE TRANSPORTER: #2
Name _____
Address _____ City _____ State _____ Zip _____
Contact Person: _____ Telephone (____) _____

XIV. WASTE DISPOSAL SITE:
Name _____
Location _____ City _____ State _____ Zip _____
Telephone (____) _____

XV. 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): ____/____/____

XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND, OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER.

XVII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PROVISION OF THIS REGULATION (40 CFR PART 61, SUBPART M) WILL BE ON-SITE DURING THE DEMOLITION OR RENOVATION, AND EVIDENCE THAT THE REQUIRED TRAINING HAS BEEN ACCOMPLISHED BY THIS PERSON WILL BE AVAILABLE FOR INSPECTION DURING NORMAL BUSINESS HOURS (required 1 year after promulgation).

Signature of Owner/Operator Date

XVII. I CERTIFY THAT ALL INFORMATION PROVIDED IS CORRECT.

Signature of Owner/Operator Date

XIX. FOR EMERGENCY RENOVATIONS: Date & Hour of Emergency (MM/DD/YY): ____/____/____
Description of the sudden, unexpected event: _____

Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:

OFFICIAL USE ONLY:

BY: _____ TITLE: _____ DATE APPROVED/DISAPPROVED: _____

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 non-asbestos material within 24 hours.

signed
Landfill Owner-Operator

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