EnviroQuest

LIMITED INSPECTION REPORT FOR ASBESTOS, LEAD-BASED PAINT AND PCB'S

Foreign Trade Zone No.9
Pier 2 Warehouse and Office Improvement

Prepared for:
Lou Chan & Associates, Inc.
725 Kapiolani Boulevard, Suite C-207
Honolulu, Hawaii 96813

Prepared by:

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

September 2012

ENVIROQUEST Project 6611

TABLE OF CONTENTS

TABLES

APPENDICES

EXECUTIVE SUMMARY

ENVIROQUEST, INC. (EQI) was retained by Lou Chan & Associates, Inc. to conduct a hazardous material inspection of the Pier 2 warehouse at Foreign Trade Zone No. 9, in Honolulu, Hawaii. The inspection was conducted on September 4, 2012, and was limited to the areas identified in the demolition drawings provided by Lou Chan & Associates, Inc. See Appendix D.

The objective of the inspection was to determine the location of asbestos-containing materials (ACMs), lead-based paints (LBPs), and polychlorinated biphenyls (PCBs) which may be disturbed during the renovation activities.

Asbestos Containing Material

The listed materials were identified as asbestos-containing materials.

Material	Location	Condition
Tan caulking	Window caulking and the aluminum exit door	Damaged
Cementitious roof panel	Entire roof and roof ridge	Damaged
Black felt paper (under silver paint and tar)	Roof, exhaust fan	Damaged
Debris from the cementitious panel on black filler material	Debris visible on the roof side of the skylight joint	Damaged
Roofing felt paper (under white elastomeric coating)	Roof gutter	Damaged

Lead-based Paint

The listed building components were painted or coated with LBP or lead coatings.

Color	Location	Condition
Yellow	Ground floor, concrete columns (lower portion) Parking, guard rail post (bollard)	Intact
White glazed ceramic tile	Ground floor, restroom, 4"x4" ceramic wall tile	Intact
Light-gray	Metal roof trusses	Intact

Poly-Chlorinated Biphenyls (PCB)

PCB containing fluorescent light ballasts were not identified in this inspection.

1.0 INTRODUCTION

This report presents the results of the limited hazardous material inspection of the Pier 2 warehouse at Foreign Trade Zone No. 9, in Honolulu, Hawaii. The inspection was conducted on September 4, 2012, and was limited to areas identified in the demolition drawings provided by Lou Chan & Associates, Inc. See Appendix D.

The objective of the inspection was to determine the location of asbestos-containing materials (ACMs), lead-based paints (LBPs), and polychlorinated biphenyls (PCBs) which may be disturbed during the renovation activities.

2.0 ASBESTOS

Thirty-one samples were collected from suspect asbestos-containing materials.

2.1 Methodology

Prior to sampling, EQI visually surveyed the interiorand exterior of the proposed renovation area 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. The samples 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 report, six of 31 samples were identified as asbestos-containing materials. 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 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 sample was point counted for this report.

A summary of the homogeneous materials is presented in Table 1. The laboratory analytical report, chain of custody form and drawings are in Appendix A.

TABLE 1
Homogeneous Material Summary
Foreign Trade Zone No.9
Pier 2 Warehouse and Office Improvements

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
Black flooring material (tar and gravel)	N	Ground floor	66100904-01 66100904-02 66100904-03	N	-	Damaged	3, 4, 5
Tan 1"x1" ceramic floor tile and grout	N	Ground floor, restroom	66100904-04 66100904-05 66100904-06	N	-	Good	7, 8, 9
White 4"x4" ceramic wall tile and grout	N	Ground floor, restroom	66100904-07 66100904-08 66100904-09	N	-	Good	10, 11, 12
Beige 6"x12" ceramic wall tile and grout	N	2nd floor, urinal area and shower room	66100904-10 66100904-11 66100904-12	N	-	Good	13, 14, 15
Tan Caulking	Y	Door and windows	66100904-13 66100904-14 66100904-15	N	550 linear ft.	Damaged	16, 17, 18
Cementitious roof panel	Y	Roof	66100904-16	N	42,420	Damaged	19
Black filler material	N	Roof ridge	66100904-17 66100904-18 66100904-19	N	-	Damaged	20, 21, 22
Silver paint over black tar and felt coating	Y (black felt coating)	Roof exhaust fan	66100904-20 66100904-21 66100904-22	N	1, 280	Good	25, 26, 27
Debris from the cementitious panel on black filler material	Y	Debris visible on the roof side of the skylight joint	66100904-23 66100904-24 66100904-25	N	200 linear ft.	Damaged	28, 29, 30

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

TABLE 1 (continued)
Homogeneous Material Summary
Foreign Trade Zone No.9
Pier 2 Warehouse and Office Improvements

Homogeneous Material	ACM[1] (Y/N)	Location	Sample ID	Friable (Y/N)	Est Qty (ACM) (ft^2)	Condition[2]	Photo No.
White and black sealant	N	Roof flashing	66100904-26 66100904-27 66100904-28	N	-	Damaged	31, 32, 33
White elastomeric roof coating over black tar and felt	Y (black felt)	Roof gutter	66100904-29 66100904-30 66100904-31	N	350	Damaged	35, 36

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

3.0 LEAD

Forty surface measurements, including instrument calibration checks, 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 interiorand exterior of the proposed renovation work 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.

The inspection was completed using a portable X-ray fluorescence (XRF) spectrum analyzer. The XRF uses a cadmium 109 (Cd^{109}) radioactive source that, when exposed to painted building components, causes lead to emit X-rays with a characteristic frequency or energy. The intensity of the radiation is then measured by the instrument and reported as lead in milligrams per square centimeter (mg/cm^2).

3.2 Results

Three of the 40 lead in paint measurements exceeded EPA guidelines for lead in paint. EPA defines lead-based paint as paint or other coatings containing lead in equal to, or in excess of 1 milligram per square centimeter (mg/cm^2) by XRF. A homogeneous paint summary is presented in Table 2. The XRF Field Log and XRF table results are presented in Appendix B.

TABLE 2
Lead Paint Summary
Foreign Trade Zone No.9
Pier 2 Warehouse, Office Improvements

Paint Color	Int/Ext	LBP[1] (Y/N)	Paint Location	Sample ID XRF Reading	Condition[2,3]	Photo No.
Date: September 4, 2012						
Yellow	Int.	Y	Ground floor, concrete column (lower portion)	5	Intact	38, 53
White	Int.	N	Ground floor, concrete column (upper portion) Exit door and frame, roll-up door frame	6, 18, 19	Intact	38
Gray	Int.	N	Ground floor, restroom, exterior CMU wall	7	Intact	39
Red	Int.	N	Ground floor, restroom,wood door and frame	8	Intact	39
Black	Int.	N	Ground floor, restroom,wood partition wall and door	9	Intact	-
Brown glazed ceramic tile	Int.	N	Ground floor, restroom, 1"x1" ceramic floor tile	10	Intact	40
White glazed ceramic wall tile	Int.	Y	Ground floor, restroom, 4"x4" ceramic wall tile	11	Intact	41, 42
Light green	Int.	N	Stair case concrete wall, metal railing, roll-up door	12, 13, 17	Intact	46, 47
Green	Int.	N	2nd floor, storage wood door, metal pipe	14, 16	Intact	49
Beige glazed ceramic wall tile	Int.	N	2nd floor, urinal area and shower room	15	Intact	48

1. LBP = >1.0 mg/cm^2
2. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft^2; Poor - >10 ft^2
3. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft^2 or ≤ 10%; Poor - >2 ft^2 or >10%

TABLE 2 (continuation)
Lead Paint Summary
Foreign Trade Zone No.9
Pier 2 Warehouse and Office Improvements

Paint Color	Int/Ext	LBP[1] (Y/N)	Paint Location	Sample ID XRF Reading	Condition[2,3]	Photo No.
Date: September 5, 2012						
Silver	Ext.	N	Roof, metal exhaust fan ventilator	5, 6, 7	Intact	50
Light-gray over orange	Int.	Y	Roof trusses	8	Intact	51
Off-white	Ext.	N	Exterior concrete wall	9	Intact	52
Yellow	Ext.	Y	Guard rail post (bollard)	10	Intact	53
White	Ext.	N	Metal exit door	11	Intact	-
Blue-green	Ext.	N	Transformer	12	Intact	55
Blue	Ext.	N	Generator	13	Intact	55
Red	Ext.	N	Guard rail post (bollard)	14	Intact	54
Light-gray	Ext.	N	Lanai, concrete wall	15	Intact	56

1. LBP = >1.0 mg/cm^2
2. Exterior: Intact – Entire surface is intact; Fair - ≤ 10ft^2; Poor - >10 ft^2
3. Interior: Intact – Entire surface is intact; Fair - ≤ 2ft^2 or ≤ 10%; Poor - >2 ft^2 or >10%

4.0 POLYCHLORINATED BIPHENYL

4.1 Methodology

EQI visually surveyed the interior of the proposed renovation area for fluorescent light fixtures. Three light fixtures were identified in the area. Upon examine, the manufactures labels on the ballast stated “No PCBs”.

5.0 CONCLUSION

5.1 Asbestos-Containing Materials

The listed materials were identified as asbestos-containing materials.

Material	Location	Condition
Tan caulking	Window caulking and the aluminum exit door	Damaged
Cementitious roof panel	Entire roof and roof ridge	Damaged
Black felt paper (under silver paint and tar)	Roof, exhaust fan	Damaged
Debris from the cementitious panel on black filler material	Debris visible on the roof side of the skylight joint	Damaged
Roofing felt paper (under white elastomeric coating)	Roof gutter	Damaged

The damaged ACM should be repaired and or removed through abatement as part of the renovation work. Abatement must be completed by a certified asbestos abatement contractor under controlled conditions in accordance with EPA and HDOH regulations. Work should also be monitored by an independent industrial hygiene professional.

5.2 Lead-Based Paint

The listed building components were painted or coated with LBP or lead coatings.

Color	Location	Condition
Yellow	Ground floor, concrete columns (lower portion) Parking, guard rail post (bollard)	Intact
White glazed ceramic tile	Ground floor, restroom, 4"x4" ceramic wall tile	Intact
Light-gray	Metal roof trusses	Intact

The lead paint/coating was found to be "intact" and no immediate action is necessary.

5.3 Polychlorinated Biphenyls (PCB)

PCB containing fluorescent light ballasts were not identified in this inspection.

6.0 LIMITATIONS

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

Although this inspection provides information on the relative presence or absence of asbestos-containing materials, lead-based paint and polychlorinated biphenyls, 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.

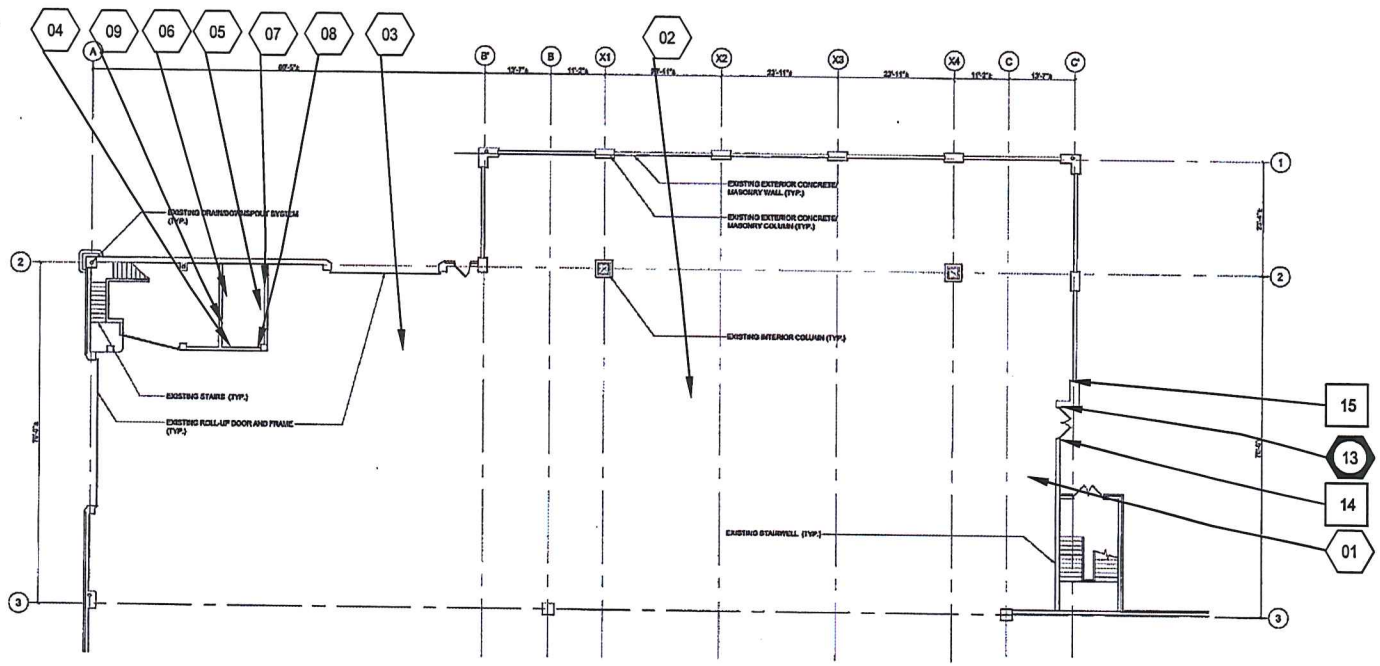
Jesus Sacramento
Industrial Hygienist
HIASB – 0173

Asbestos

Drawings

Laboratory Analytical Report

Appendix A



* NOT TO SCALE

GROUND FLOOR

EnviroQuest

ASBESTOS SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

ACM LEGEND

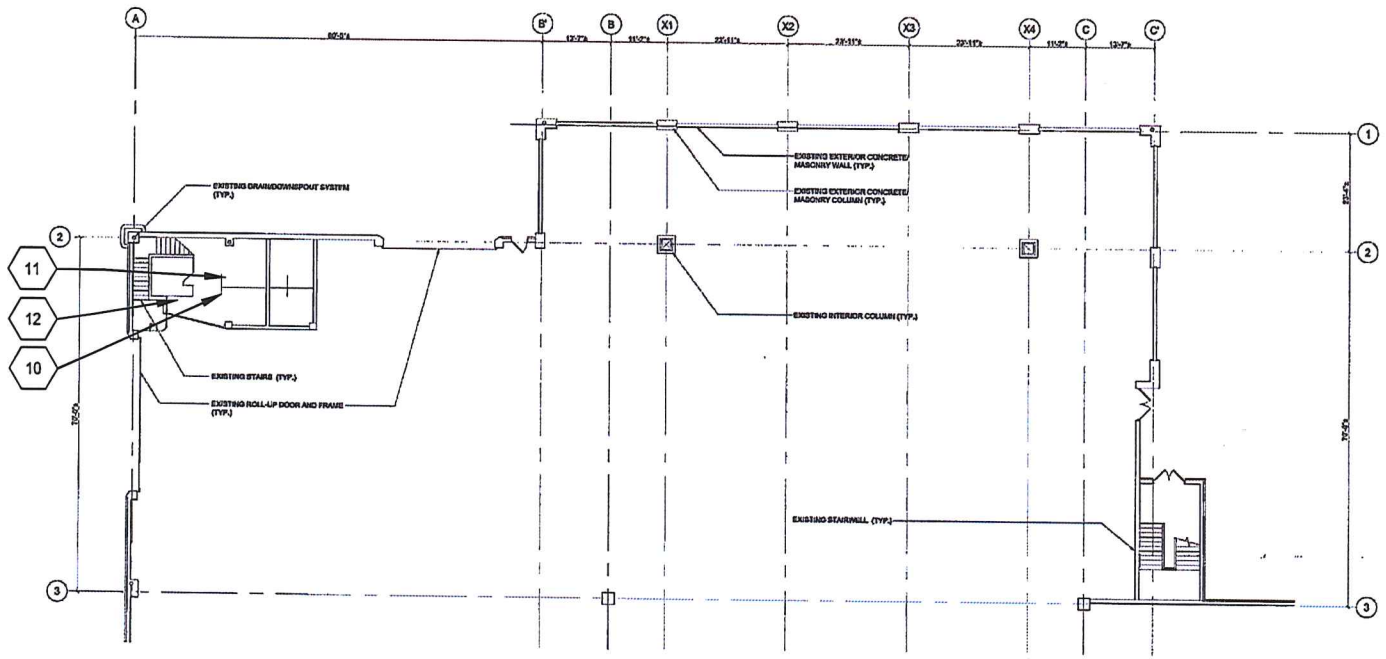
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)

No. BULK SAMPLE LOCATION (LESS THAN 1 %)

No. BULK SAMPLE LOCATION (NONE DETECTED)

No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-1



* NOT TO SCALE

SECOND FLOOR

EnviroQuest

ASBESTOS SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

ACM LEGEND

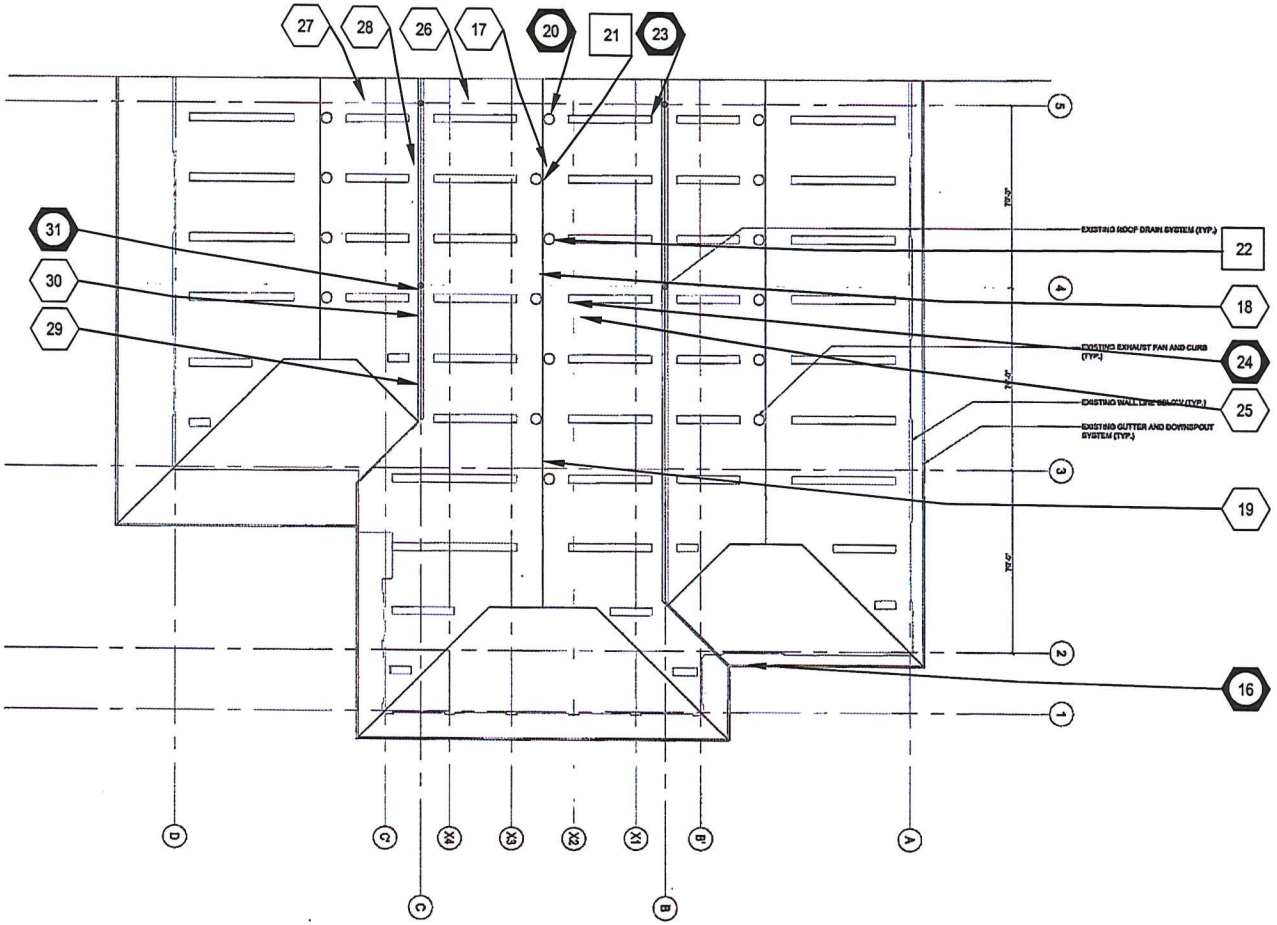
No. BULK SAMPLE LOCATION (GREATER THAN 1 %)

No. BULK SAMPLE LOCATION (LESS THAN 1 %)

No. BULK SAMPLE LOCATION (NONE DETECTED)

No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-2



* NOT TO SCALE

EnviroQuest

ASBESTOS SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

ACM LEGEND

No. BULK SAMPLE LOCATION (GREATER THAN 1 %)

No. BULK SAMPLE LOCATION (LESS THAN 1 %)

No. BULK SAMPLE LOCATION (NONE DETECTED)

No. BULK SAMPLE LOCATION (NOT ANALYZED)

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-3

Forensic Analytical Laboratories

Amended Report

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: B167905
Date Received: 09/06/12
Date Analyzed: 09/11/12
Date Printed: 09/11/12
First Reported: 09/11/12

Job ID/Site: 6611; FTZ No. 9, Pier 2 Warehouse

Date(s) Collected: 09/04/2012

FALI Job ID: 7104
Total Samples Submitted: 31
Total Samples Analyzed: 27

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
66100904-01	50754728						
Layer: Black Asphalt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-02	50754729						
Layer: Black Asphalt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-03	50754730						
Layer: Black Asphalt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-04	50754731						
Layer: Light Brown Ceramic Tile			**ND**				
Layer: Grey Grout			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-05	50754732						
Layer: Light Brown Ceramic Tile			**ND**				
Layer: Grey Grout			**ND**				
Layer: Grey Mortar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-06	50754733						
Layer: Light Brown Ceramic Tile			**ND**				
Layer: Grey Grout			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-07	50754734						
Layer: White Grout			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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

Report Number: B167905
Client Name: EnviroQuest, Inc. **Date Printed:** 09/11/12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
66100904-08	50754735						
Layer: White Grout			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
66100904-09	50754736						
Layer: White Grout			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
66100904-10	50754737						
Layer: Beige Ceramic Tile			**ND**				
Layer: Off-White Grout			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
66100904-11	50754738						
Layer: Off-White Grout			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
66100904-12	50754739						
Layer: Off-White Grout			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
66100904-13	50754740						
Layer: Tan Putty		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
66100904-14	50754741						
Comment: Sample not analyzed due to prior positive result in series.							
66100904-15	50754742						
Comment: Sample not analyzed due to prior positive result in series.							
66100904-16	50754743						
Layer: Grey Semi-Fibrous Material		Chrysotile	**10 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (10%)**					
66100904-17	50754744						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
66100904-18	50754745						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					

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

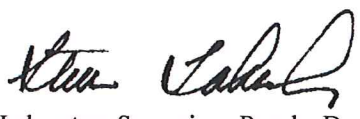
Report Number: B167905
Client Name: EnviroQuest, Inc. **Date Printed:** 09/11/12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
66100904-19	50754746						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %)							
66100904-20	50754747						
Layer: Silver Paint			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt		Chrysotile	**80 %**				
Total Composite Values of Fibrous Components:		**Asbestos (2%)**					
Cellulose (Trace)							
66100904-21	50754748						
Comment: Sample not analyzed due to prior positive result in series.							
66100904-22	50754749						
Comment: Sample not analyzed due to prior positive result in series.							
66100904-23	50754750						
Layer: Black Non-Fibrous Material			**ND**				
Layer: White Fibrous Debris		Chrysotile	**100 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (Trace)							
66100904-24	50754751						
Layer: Black Non-Fibrous Material			**ND**				
Layer: White Fibrous Debris		Chrysotile	**100 %**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Cellulose (Trace)							
66100904-25	50754752						
Layer: Black Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
66100904-26	50754753						
Layer: Beige Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Synthetic (2 %)							
66100904-27	50754754						
Layer: Beige Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Synthetic (2 %)							
66100904-28	50754755						
Layer: Beige Coating			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Synthetic (2 %)							

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

Report Number: B167905
Client Name: EnviroQuest, Inc. **Date Printed:** 09/11/12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
66100904-29	50754756						
Layer: White Coating			**ND**				
Layer: Green Semi-Fibrous Material			**ND**				
Layer: Black Non-Fibrous Material			**ND**				
Layer: Black Semi-Fibrous Tar			**ND**				
Layer: Silver Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (5 %) Synthetic (5 %)							
66100904-30	50754757						
Layer: White Coating			**ND**				
Layer: Green Semi-Fibrous Material			**ND**				
Layer: Black Non-Fibrous Material			**ND**				
Layer: Silver Paint			**ND**				
Layer: Tan Adhesive			**ND**				
Layer: Stones			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
66100904-31	50754758						
Layer: White Coating			**ND**				
Layer: Green Semi-Fibrous Material			**ND**				
Layer: Black Non-Fibrous Material			**ND**				
Layer: Silver Paint			**ND**				
Layer: Tan Adhesive			**ND**				
Layer: Stones			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt		Chrysotile	**35 %**				
Total Composite Values of Fibrous Components:		**Asbestos (2%)**					
Cellulose (3 %) Synthetic (5 %)							



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'.

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

EnviroQuest 66011

PLM DATA SHEET

Project No: ~~66010~~ Project Name: FTZ NO. 9 PIER 2, WAREHOUSE Date: 9/04/12

Page: 1 of 4

Material Description: Black Flooring (tar & gravel) Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-01	GROUND FLOOR / NE SIDE		
-02	MIDDLE		
-03	NW SIDE		

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☑ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/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: Tan 1"x1" ceramic floor tile and grout Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-04	GROUND FLOOR / Restroom (FLOOR)		
-05			
-06			

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/Gouges -

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

Sampled By: JESUS SACRAMENTO

DOH Cert No: HI856-0173

Delivered to Lab By:

Relinquished By/Date/Time:

Relinquished By/Date/Time: 10:48 AM 9/6/12 F/E

Received

Relinquished By/Date/Time:

Relinquished By/Date/Time:

TURNAROUND TIME: ☐ < 12 Hours ☐ 24 Hours ☒ 3 Days ☐ 5 Days ☐ _____

Surfacing	<1,000 ft² = 3 Samples	1,000 – 5,000 ft² = 5 Samples	>5,000 ft² = 7 Samples
TSI	Minimum of 3 Samples (Run) UNLESS	<6 In. or ft² = 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

EnviroQuest 6611

PLM DATA SHEET

Project No.: 6610 Project Name: FTZ NO.9 PIER 2, WAREHOUSE Date: 9/04/12

Material Description: WHITE 4"X4" ceramic wall tile & grout — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-07	GROUND FLOOR / Restroom (wall		
-08			
-09			

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/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: Beige 6"X12" ceramic wall tile & white grout — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-10	2ND FLOOR / URINAL AREA		
-11	/ SHOWER RM		
-12			

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☑ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/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: tan caulking — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-13	GRD & 2nd FLOOR / Aluminum door & window frame		
-14			
-15			

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☑ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges -

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

EnviroQuest 10611

PLM DATA SHEET

Project No.: 6610 Project Name: FTZ No. 9 PIER 2, WAREHOUSE Date: 9/04/10

Page 3 of 4

Material Description: Cementitious Roof material (Transite)

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-16	ROOF		

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☑ Good Cond.	% H_2O/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: BLACK TAR

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-17	ROOF RIDGE SEALANT		
-18			
-19			

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☑ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/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: Silver painted / black tar coating

Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-20	ROOF THERMAL VENTILATORS (2 EXHAUST FAN)		
-21			
-22			

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage	% Crumbling -	☐ Sig. Damage	% Gouge/Punct -	☐ Sig. Damage	% Crumbling -
☐ Damaged	% Delaminating -	☐ Damaged	% Crushed -	☐ Damaged	% Delaminating -
☐ Good Cond.	% H_2O/Gouges -	☐ Good Cond.	% H_2O Stains -	☐ Good Cond.	% H_2O/Gouges-

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

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

EnviroQuest 66011

PLM DATA SHEET

Project No.: 6610 Project Name: FTZ No. 9 PIER 2, Warehouse Date: 9/04/12 Page: 4 of 4

Material Description: black material sealant — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-23 thru -25	ROOF / skylights caulking & sealant		

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H_2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/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 & BLACK sealant — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-26 thru -28	ROOF FLASHING & ROOF NAIL ~100 LF.		

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H_2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/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 elastomeric coating & tar — Friable / Non-friable

Sample No.	Location	% Asb.	Asb. Type
66100904-29 thru -31	ROOF GUTTER		

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

Surfacing Material		TSI		Misc.	
☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Gouge/Punct - % Crushed - % H_2O Stains -	☐ Sig. Damage ☐ Damaged ☐ Good Cond.	% Crumbling - % Delaminating - % H_2O/Gouges-

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

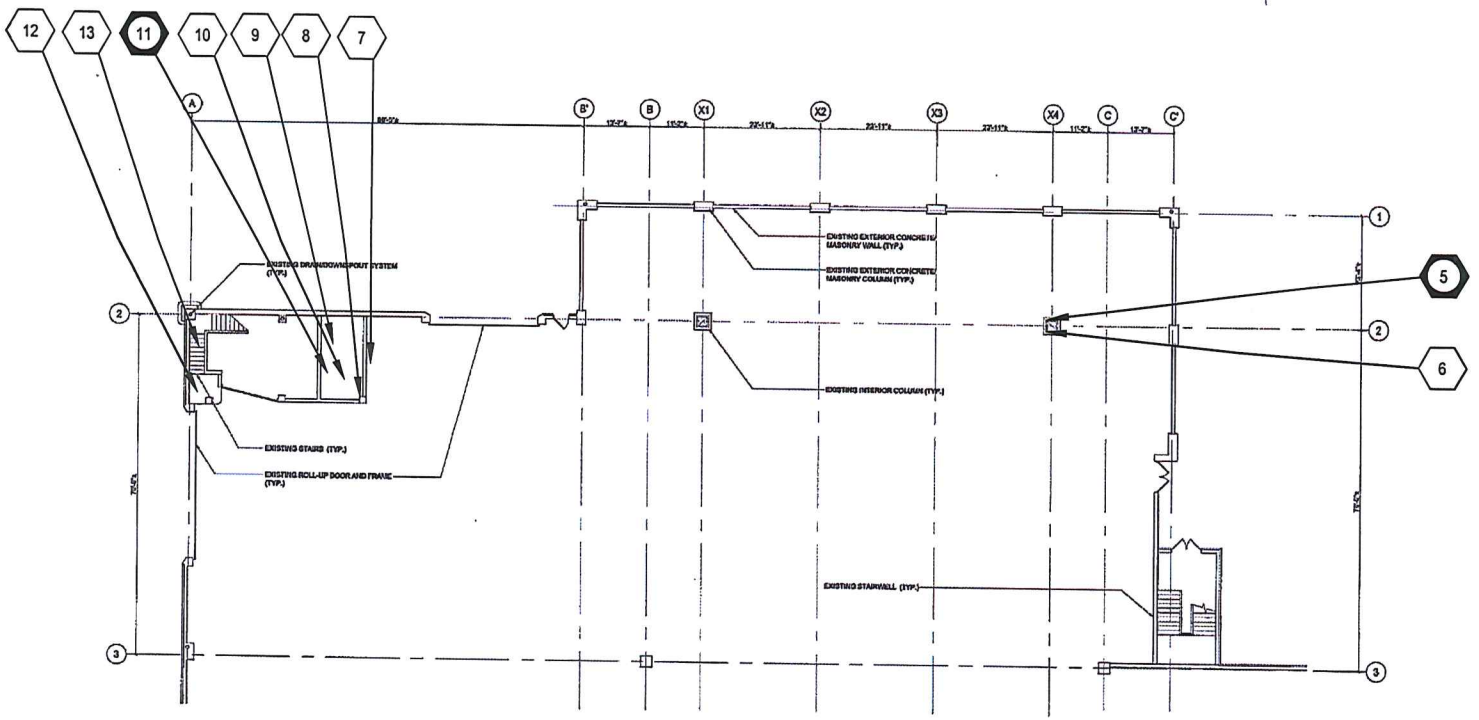
98-029 Hekaha Street, Suite 21, Aiea, HI 96701 Phone: (808) 486-5881 Fax: (808) 486-5889 E-mail: eql@enviroquestinc.com

Lead-Based Paint

Drawings

XRF Field Results

Appendix B



* NOT TO SCALE

DATE: 9/4/2012
GROUND FLOOR

EnviroQuest

XRF SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

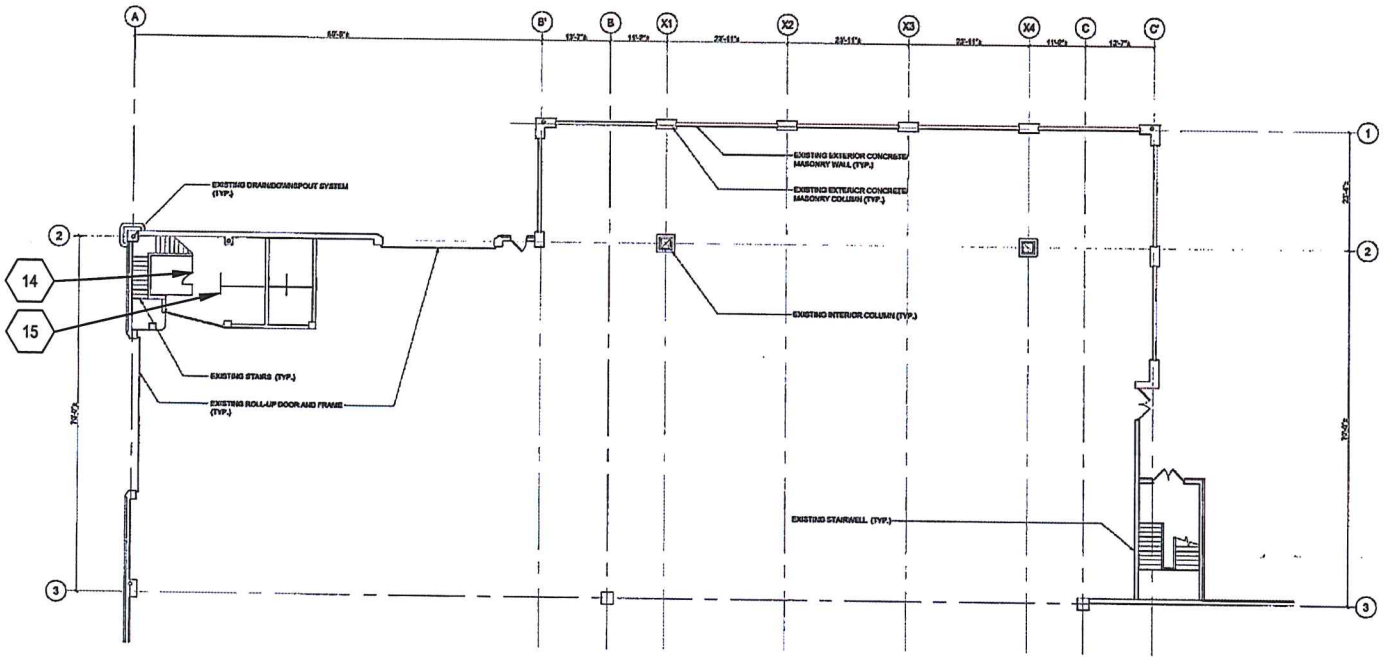
LBP LEGEND

No. PAINT SAMPLE LOCATION (GREATER THAN 1mg/cm^2)

No. PAINT SAMPLE LOCATION (LESS THAN 1mg/cm^2)

No. SAMPLE NULL

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-4



* NOT TO SCALE

DATE: 9/4/2012
SECOND FLOOR

EnviroQuest

XRF SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

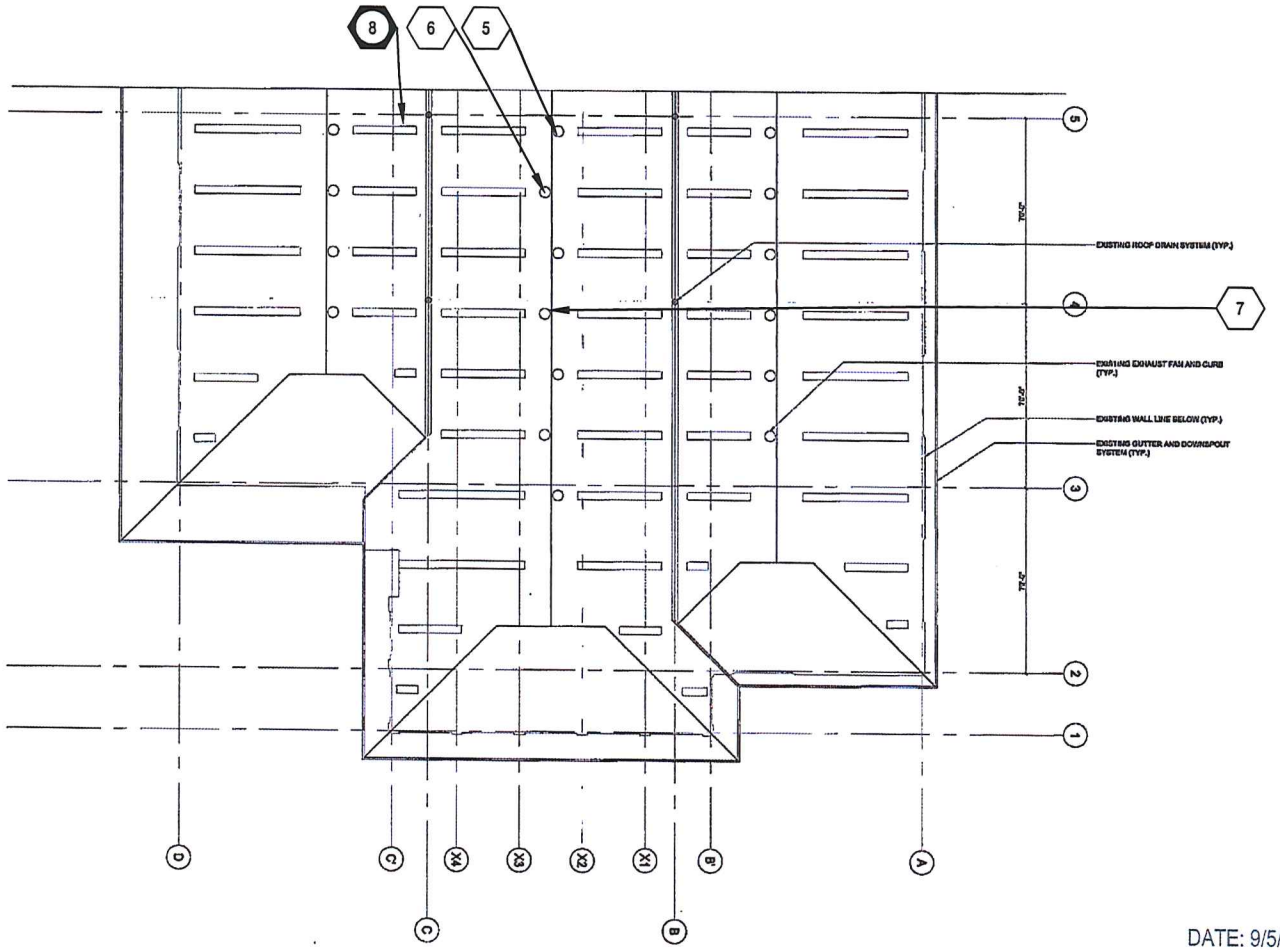
LBP LEGEND

No. PAINT SAMPLE LOCATION (GREATER THAN 1mg/cm^2)

No. PAINT SAMPLE LOCATION (LESS THAN 1mg/cm^2)

No. SAMPLE NULL

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-5



* NOT TO SCALE

DATE: 9/5/2012
ROOF

EnviroQuest

XRF SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

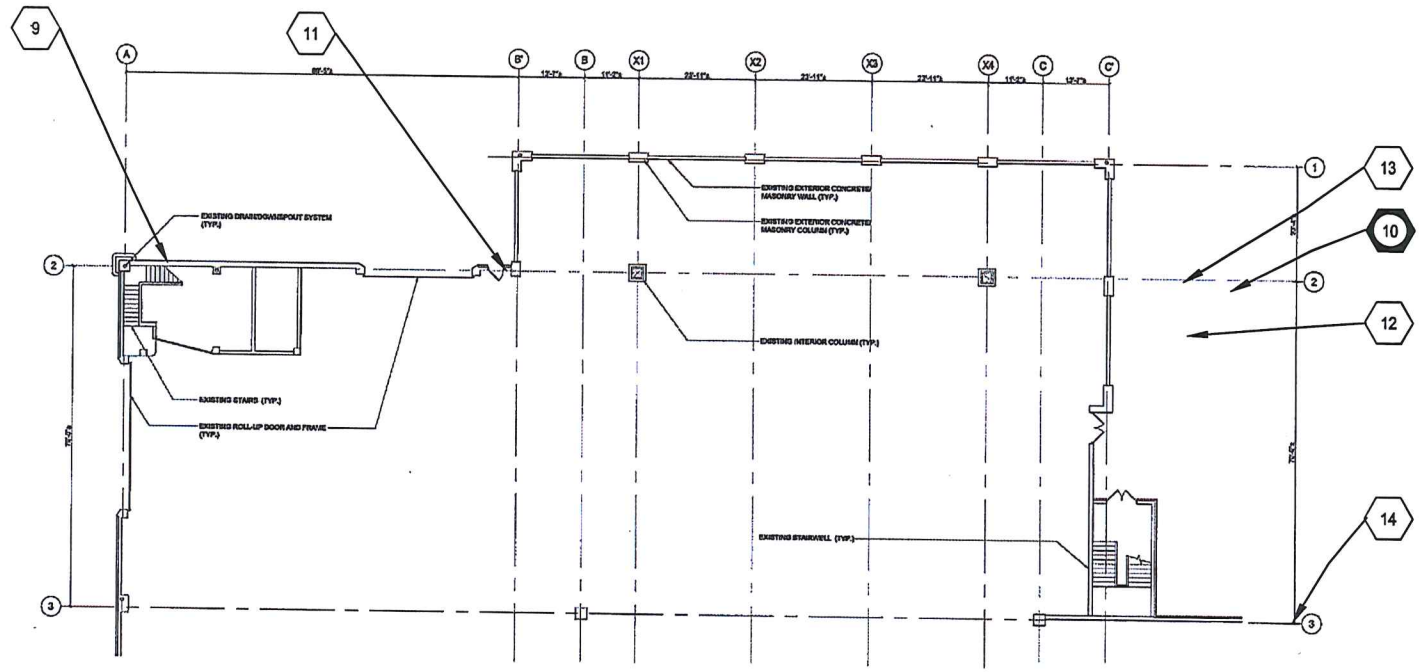
LBP LEGEND

No. PAINT SAMPLE LOCATION (GREATER THAN 1mg/cm^2)

No. PAINT SAMPLE LOCATION (LESS THAN 1mg/cm^2)

No. SAMPLE NULL

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-6



* NOT TO SCALE

DATE: 9/5/2012
GROUND FLOOR

EnviroQuest

XRF SAMPLE LOCATIONS

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

LBP LEGEND

No. PAINT SAMPLE LOCATION (GREATER THAN 1mg/cm^2)

No. PAINT SAMPLE LOCATION (LESS THAN 1mg/cm^2)

No. SAMPLE NULL

DRAWN BY:	JT
CHECKED BY:	JS
DATE:	SEP 2012
JOB NO.	6611
SHEET NO.	H-7

EnviroQuest

FIELD LOG
XRF MEASUREMENTS

Project: FOREIGN TRADE ZONE No.9

Building: WAREHOUSE

Project No: 6610

Date: 9/04/2012

Page: 9/4/12 1/1

XRF #	Int/Ext	Flr.	Room	Component	Direction	Substrate	Color	mg/cm²	Comments
01	Instrument	Calibration							
02									
03		Calibration Verification							
04									
05	Int	1st		Concrete Pillar		Concrete	Yellow	2.6	
06	Int	1st		Concrete Pillar		Concrete	White	0.0	
07	Int	1st		Bathroom Wall		CMU	Gray	0.0	
08	Int	1st		Bathroom Door		Wood	Red	0.0	
09	Int	1st		Bathroom Stall Door		Wood	Black	0.0	
10	Int	1st		Bathroom Floor		Floor tile	Brown	0.0	
11	Int	1st		Bathroom Wall		4"x4" tile	White	1.5	
12	Int	1st		Wall		Concrete	SeaFoamGreen	0.11	Walls by staircase
13	Int	1st		Railing		Metal	SeaFoam Green	0.10	Railing for staircase
14	Int	2nd		Closet Door		Metal	Green	0.20	Closet in 2nd floor bathroom
15	Int	2nd		Divider		Ceramic Tile	Yellow	0.01	Divider for bathroom stalls
16	Int	2nd		Pipe		Metal	Green	0.11	2nd floor Bathroom.
17	Int	1st		Roll-up Door		Metal	Green	0.09	
18	Int	1st		Door		Metal	White	0.5	
19	Int	1st		Roll-up Door Frame		Metal	White	0.5	
20									
21		Calibration		Verification					
22									

EnviroQuest

FIELD LOG
XRF MEASUREMENTS

Project: FOREIGN TRADE ZONE NO. 9

Building: PIER 2 WAREHOUSE

Project No:

Date: 9/05/12

Page: 1

XRF #	Int/Ext	Flr.	Room	Component	Direction	Substrate	Color	mg/cm²	Comments
1	INSTRUMENT CALIBRATION							-	
2									
3	CALIBRATION			CHECK VERIFICATION				0.90	
4								1.40	
5	EXT	ROOF		EXHAUST FAN/VENTILATOR		metal	silver	3.50	
6	EXT	ROOF		"	"		"	0.08	
7	EXT	ROOF		"	"		"	-0.40	
8	INT	ROOF		TRUSSES		metal	L-gray	0.01	
9	EXT	GRD		WALL		Concrete	off-white	6.0	
10	EXT	GRD		GUARD POST (PEDESTAL)		metal	yellow	0.10	
11	EXT	GRD		DOOR		metal	White	1.90	
12	EXT	GRD		TRANSFORMER		metal	blue-green	0.14	
13	EXT	GRD		"		metal	blue	0.00	
14	EXT	GRD		POST GUARD		metal	Red	0.00	
15	EXT	GRD		RETAIN WALL		concrete	L-gray	0.16	
16								0.00	
17	CALIBRATION			CHECK VERIFICATION				0.90	
18								0.90	
								1.10	

NITON

NITON Corporation
900 Middlesex Turnpike
Billerica, MA 01821

Index	Reading No	Time	Type	Units	Sequence	Results	Depth Index	Action Level	PbC	PbL	PbK
1	1	2012-09-04 14:36	SHUTTER_CAL	cps	Final				2.77 ± 0.00	0.46 ± 0.00	0.01 ± 0.00
2	2	2012-09-04 14:39	PAINT	mg / cm ^2	Final	Positive	1.15	1.00	1.00 ± 0.10	1.00 ± 0.10	0.23 ± 0.28
3	3	2012-09-04 14:39	PAINT	mg / cm ^2	Final	Negative	1.01	1.00	0.80 ± 0.20	0.80 ± 0.20	0.08 ± 1.23
4	4	2012-09-04 14:41	PAINT	mg / cm ^2	Final	Positive	1.11	1.00	1.00 ± 0.10	1.00 ± 0.10	0.19 ± 0.29
5	5	2012-09-04 14:45	PAINT	mg / cm ^2	Final	Positive	1.35	1.00	2.60 ± 1.50	2.60 ± 1.50	3.70 ± 8.20
6	6	2012-09-04 14:47	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	0.23 ± 0.74
7	7	2012-09-04 14:48	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	0.24 ± 0.75
8	8	2012-09-04 14:49	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	-0.19 ± 1.44
9	9	2012-09-04 14:50	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	-0.19 ± 1.89
10	10	2012-09-04 14:51	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	-0.24 ± 1.83
11	11	2012-09-04 14:52	PAINT	mg / cm ^2	Final	Positive	2.43	1.00	1.50 ± 0.50	1.50 ± 0.50	2.10 ± 2.00
12	12	2012-09-04 14:53	PAINT	mg / cm ^2	Final	Negative	1.34	1.00	0.11 ± 0.04	0.11 ± 0.04	0.19 ± 0.80
13	13	2012-09-04 14:55	PAINT	mg / cm ^2	Final	Negative	1.17	1.00	0.10 ± 0.10	0.10 ± 0.10	0.90 ± 2.60
14	14	2012-09-04 14:56	PAINT	mg / cm ^2	Final	Negative	1.31	1.00	0.20 ± 0.15	0.20 ± 0.15	-0.06 ± 2.31
15	15	2012-09-04 14:57	PAINT	mg / cm ^2	Final	Negative	2.65	1.00	0.01 ± 0.04	0.01 ± 0.04	0.07 ± 1.51
16	16	2012-09-04 15:00	PAINT	mg / cm ^2	Final	Negative	1.81	1.00	0.11 ± 0.21	0.11 ± 0.21	0.40 ± 2.70
17	17	2012-09-04 15:01	PAINT	mg / cm ^2	Final	Negative	1.87	1.00	0.09 ± 0.13	0.09 ± 0.13	1.00 ± 2.60
18	18	2012-09-04 15:03	PAINT	mg / cm ^2	Final	Negative	1.77	1.00	0.50 ± 0.30	0.50 ± 0.30	0.12 ± 2.35
19	19	2012-09-04 15:03	PAINT	mg / cm ^2	Final	Negative	1.52	1.00	0.50 ± 0.30	0.50 ± 0.30	0.17 ± 2.76
20	20	2012-09-04 15:06	PAINT	mg / cm ^2	Final	Negative	1.07	1.00	0.90 ± 0.10	0.90 ± 0.10	0.30 ± 0.56
21	21	2012-09-04 15:07	PAINT	mg / cm ^2	Final	Negative	2.46	1.00	0.90 ± 0.10	0.90 ± 0.10	0.14 ± 0.35
22	22	2012-09-04 15:07	PAINT	mg / cm ^2	Final	Negative	1.08	1.00	0.30 ± 0.18	0.30 ± 0.18	0.12 ± 1.62

09/04/12 15:39:57

NITON

NITON Corporation
900 Middlesex Turnpike
Billerica, MA 01821

Index	Reading No	Time	Type	Units	Sequence	Results	Depth Index	Action Level	PbC	PbL	PbK
1	1	2012-09-05 12:54	SHUTTER_CAL	cps	Final				2.42 ± 0.00	0.41 ± 0.00	0.00 ± 0.00
2	2	2012-09-05 12:56	PAINT	mg / cm ^2	Final	Negative	1.12	1.00	0.90 ± 0.10	0.90 ± 0.10	0.70 ± 0.50
3	3	2012-09-05 12:56	PAINT	mg / cm ^2	Final	Positive	1.14	1.00	1.40 ± 0.40	1.40 ± 0.40	0.90 ± 2.10
4	4	2012-09-05 12:56	PAINT	mg / cm ^2	Final	Positive	1.33	1.00	3.50 ± 1.80	3.50 ± 1.80	3.30 ± 7.10
5	5	2012-09-05 13:01	PAINT	mg / cm ^2	Final	Negative	4.07	1.00	0.08 ± 0.89	0.18 ± 0.17	0.08 ± 0.89
6	6	2012-09-05 13:01	PAINT	mg / cm ^2	Final	Negative	4.01	1.00	-0.40 ± 0.99	0.26 ± 0.20	-0.40 ± 0.99
7	7	2012-09-05 13:04	PAINT	mg / cm ^2	Final	Negative	2.11	1.00	0.01 ± 0.02	0.01 ± 0.02	-0.56 ± 1.63
8	8	2012-09-05 13:21	PAINT	mg / cm ^2	Final	Positive	2.54	1.00	6.00 ± 4.20	6.00 ± 4.20	5.20 ± 9.90
9	9	2012-09-05 13:29	PAINT	mg / cm ^2	Final	Negative	1.37	1.00	0.10 ± 0.11	0.10 ± 0.11	-0.67 ± 2.44
10	10	2012-09-05 13:29	PAINT	mg / cm ^2	Final	Positive	2.60	1.00	1.90 ± 0.80	1.90 ± 0.80	2.00 ± 3.30
11	11	2012-09-05 13:29	PAINT	mg / cm ^2	Final	Negative	1.69	1.00	0.14 ± 0.15	0.14 ± 0.15	-0.27 ± 2.50
12	12	2012-09-05 13:33	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	0.40 ± 2.70
13	13	2012-09-05 13:33	PAINT	mg / cm ^2	Final	Negative	1.00	1.00	0.00 ± 0.02	0.00 ± 0.02	-0.27 ± 2.63
14	14	2012-09-05 13:34	PAINT	mg / cm ^2	Final	Negative	5.34	1.00	0.16 ± 0.57	0.16 ± 0.57	0.12 ± 2.79
15	15	2012-09-05 13:36	PAINT	mg / cm ^2	Final	Negative	1.22	1.00	0.00 ± 0.02	0.00 ± 0.02	-0.14 ± 1.06
16	16	2012-09-05 13:40	PAINT	mg / cm ^2	Final	Negative	1.08	1.00	0.90 ± 0.10	0.90 ± 0.10	0.50 ± 0.60
17	17	2012-09-05 13:40	PAINT	mg / cm ^2	Final	Negative	1.09	1.00	0.90 ± 0.10	0.90 ± 0.10	0.60 ± 0.50
18	18	2012-09-05 13:41	PAINT	mg / cm ^2	Final	Positive	1.20	1.00	1.10 ± 0.10	1.10 ± 0.10	1.10 ± 0.70

09/05/12 12:07:07

Appendix C

Photographs

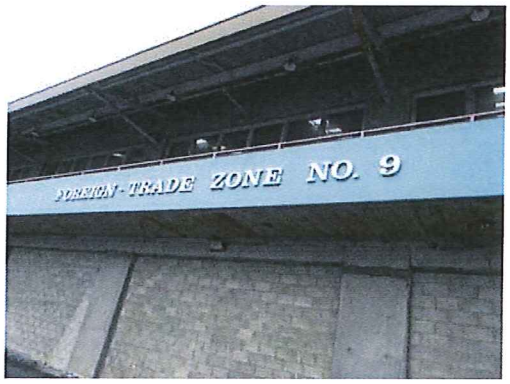


Photo #1: Foreign Trade Zone No.9
Pier 2 warehouse.

Photo #2:Foreign Trade Zone No.9
Pier 2 warehouse.

Photo #3: Ground floor.
Non-asbestos containing black flooring (asphalt).

Photo #4: Ground floor.
Non-asbestos containing black flooring (asphalt).

Photo #5: Ground floor.
Non-asbestos containing black flooring (asphalt).

Photo #6: Ground floor.
Non-asbestos containing black flooring (asphalt).

EnviroQuest

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

Photo #7: Ground floor, restroom.
Non-asbestos containing tan ceramic floor tile and grout.

Photo #8: Ground floor, restroom.
Non-asbestos containing tan ceramic floor tile and grout.

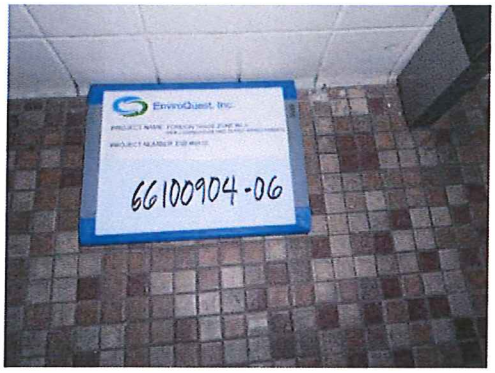


Photo #9:Ground floor, restroom.
Non-asbestos containing tan ceramic floor tile and grout.

Photo #10:Ground floor, restroom.
Non-asbestos containing white ceramic wall tile and grout.

Photo #11: Ground floor, restroom.
Non-asbestos containing white ceramic wall tile and grout.

Photo #12: Ground floor, restroom.
Non-asbestos containing white ceramic wall tile and grout.

Photo #13: 2nd floor, urinal area.
Non-asbestos containing beige ceramic wall tile and grout.

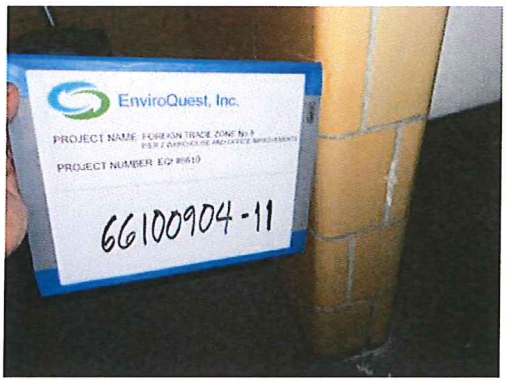


Photo #14: 2nd floor, urinal area.
Non-asbestos containing beige ceramic wall tile and grout.

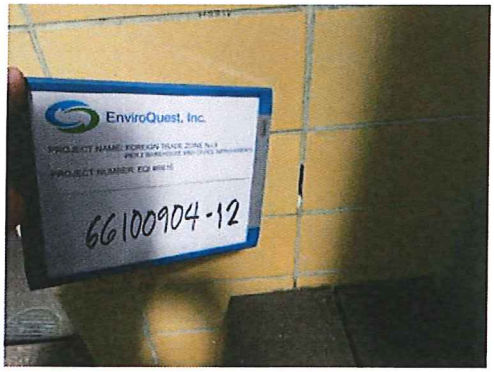


Photo #15: 2nd floor, shower room.
Non-asbestos containing beige ceramic wall tile and grout.

Photo #16: Ground floor, aluminum exit door frame.
Asbestos-containing tan door caulking.

Photo #17: Ground floor, aluminum exit door frame.
Asbestos-containing tan door caulking.

Photo #18: Aluminum window frame.
Asbestos-containing tan window caulking.

Photo #19:
Asbestos-containing corrugated roof panel.

Photo #20: Roof ridge.
Non-asbestos containing black sealant.
Asbestos-containing cementitious roof ridge.

Photo #21: Roof ridge.
Non-asbestos containing black sealant..
Asbestos-containing cementitous roof panel.

Photo #22: Roof ridge.
Non-asbestos containing black sealant.
Asbestos-containing cementitous roof panel.

Photo #23: Roof ridge.
Non-asbestos containing black sealant.
Asbestos-containing cementitious roof and ridge.

Photo #24: Roof exhaust fan.
Asbestos-containing black felt coating under silver paint and black tar.

Photo #25: Roof exhaust fan.
Asbestos-containing black felt coating under silver paint and black tar.

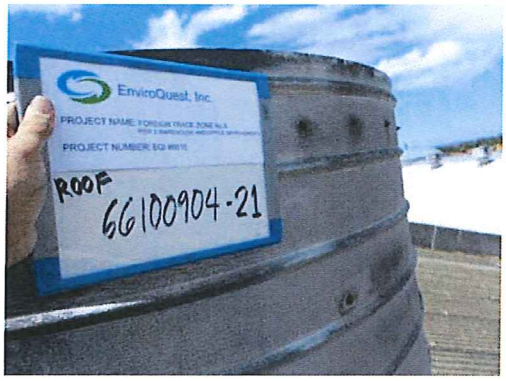


Photo #26: Roof exhaust fan.
Asbestos-containing black felt coating under silver paint and black tar.

Photo #27: Roof exhaust fan.
Asbestos-containing black felt coating under silver paint and black tar.

Photo #28: Roof skylight.
Asbestos-containing debris from cementitious roof panel on the non-asbestos containing black sealant.

Photo #29: Roof skylight.
Asbestos-containing debris from cementitious roof panel on the non-asbestos containing black sealant.

Photo #30: Roof skylight.
Asbestos-containing debris from cementitious roof panel on the non-asbestos containing black sealant.

Photo #31: Roof flashing.
Non-asbestos containing black and white caulking.

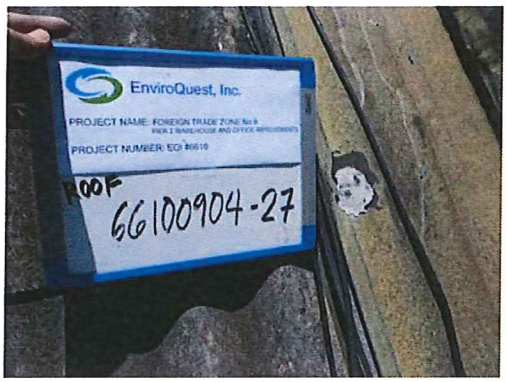


Photo #32: Roof flashing.
Non-asbestos containing black and white caulking.

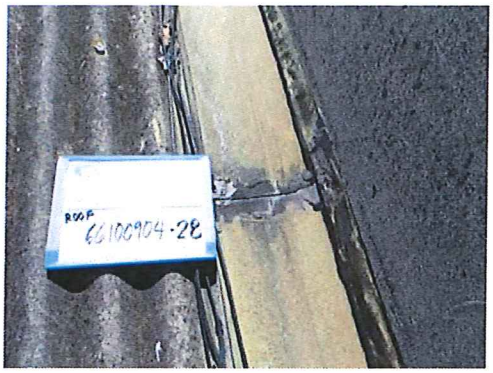


Photo #33: Roof flashing.
Non-asbestos containing black and white caulking.

Photo #34: Roof flashing.
Non-asbestos containing black and white caulking.

Photo #35: Roof gutter.
Asbestos-containing roofing felt under non-asbestos containing elastomeric coating and tar.

Photo #36: Roof gutter.
Asbestos-containing roofing felt under non-asbestos containing elastomeric coating and tar.

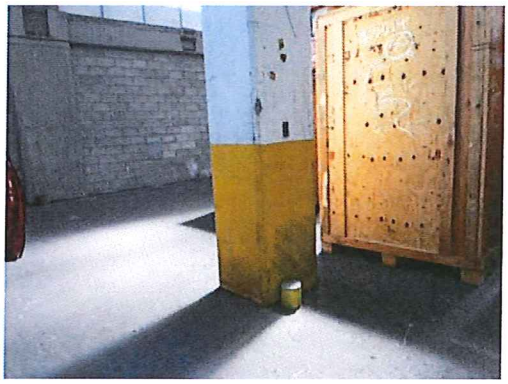


Photo #37: Ground floor.
Lead-based painted yellow concrete column (lower portion).

Photo #38: Ground floor.
Non-lead based painted white concrete column (upper portion).

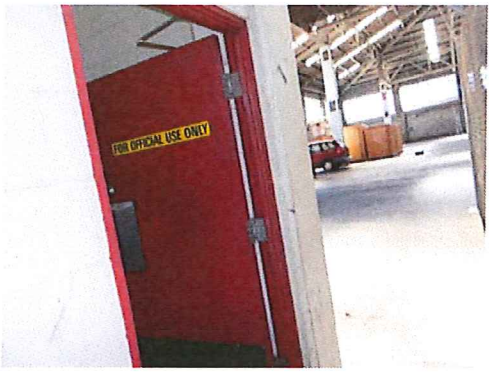


Photo #39: Ground floor, restroom.
Non-lead based painted red door and frame.

Photo #40: Ground floor, restroom.
Non-lead based paint coated glazed tan ceramic floor tile.

Photo #41: Ground floor.
Lead-based paint coated glazed white ceramic wall tile.

Photo #42: Ground floor.
Lead-based paint coated glazed white ceramic wall tile.

Photo #46: Ground floor.
Non-lead based painted light-green roll-up door.

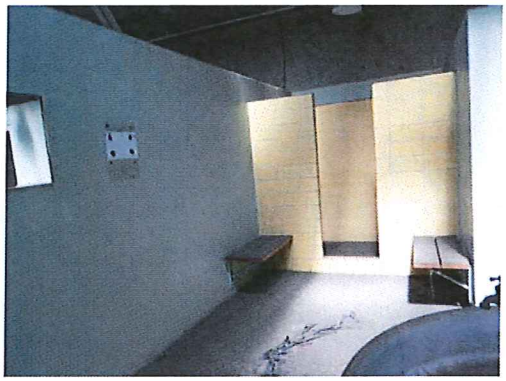


Photo #47: 2nd floor.
Non-lead based painted green wall.

Photo #48: 2nd floor, urinal area.
Non-lead based paint coated glazed beige ceramic wall tile.

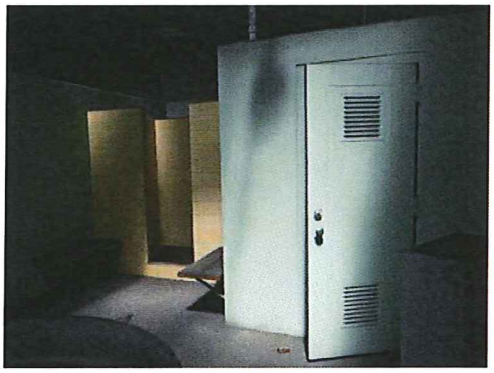


Photo #49: 2nd floor, storage room.
Non-lead based painted green wall and door.

Photo #50: Roof.
Non-lead based painted silver exhaust fan.

Photo #51: Roof trusses:
Lead-based painted light-gray metal trusses.

EnviroQuest

FOREIGN TRADE ZONE NO. 9
PIER 2 WAREHOUSE

Photo #52:
Non-lead based painted off-white exterior wall.

Photo #53:
Lead-based painted yellow bollards.

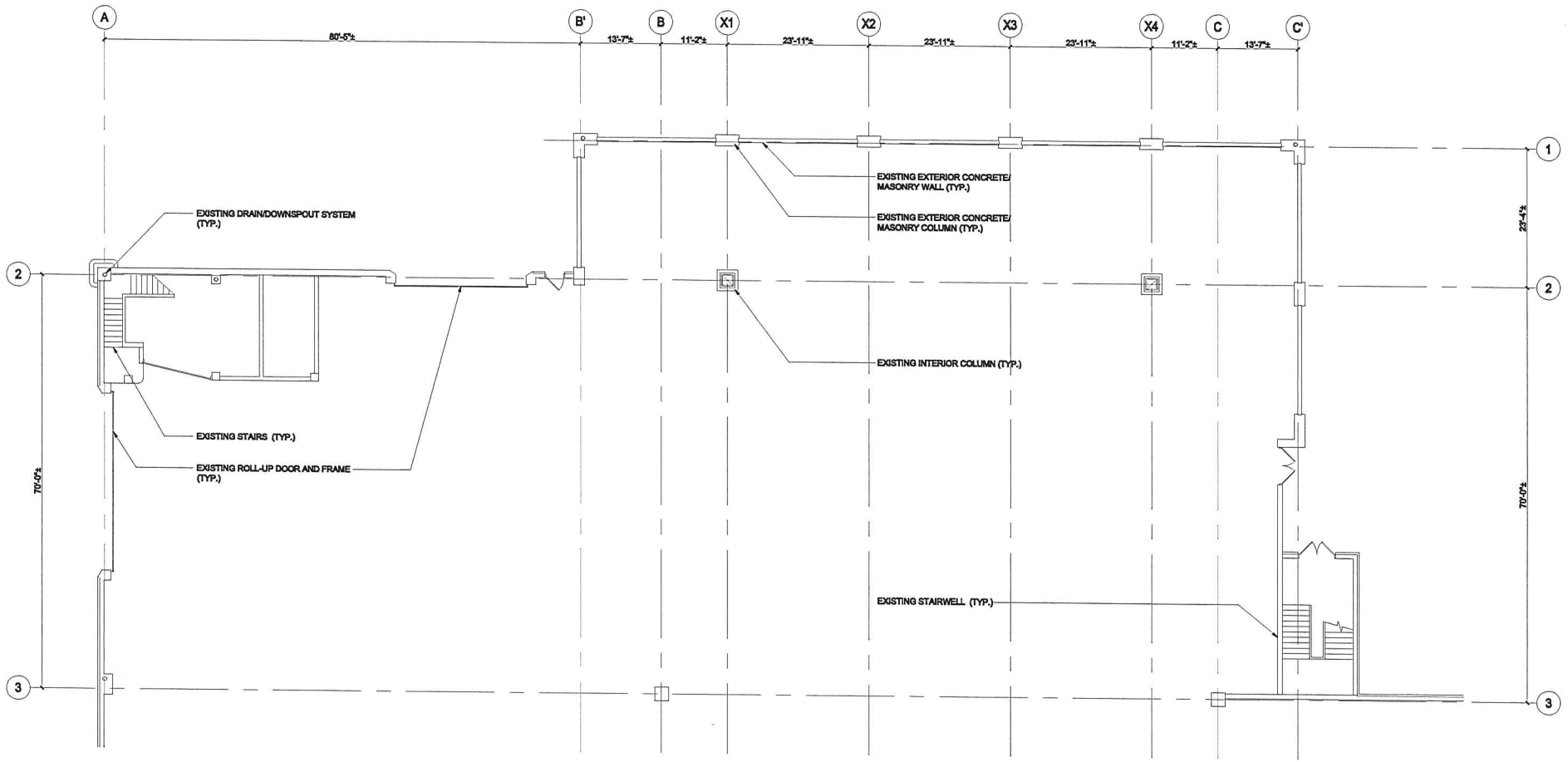
Photo #54:
Non-lead based painted red bollards.

Photo #55:
Non-lead based painted blue and blue-green transformer.

Photo #56:
Non-lead based painted gray canopy exterior wall.

Reference Drawings
(Provided by Lou Chan & Associates, Inc.)

Appendix D



TRUE NORTH
N.T.S.

1 / A-1.1 GROUND FLOOR DEMOLITION PLAN
SCALE: 1/8"= 1'-0"

REVISION NO.	SYMBOL	DESCRIPTION	SHT ____ OF ____	DATE

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT AND TOURISM
STATE OF HAWAII

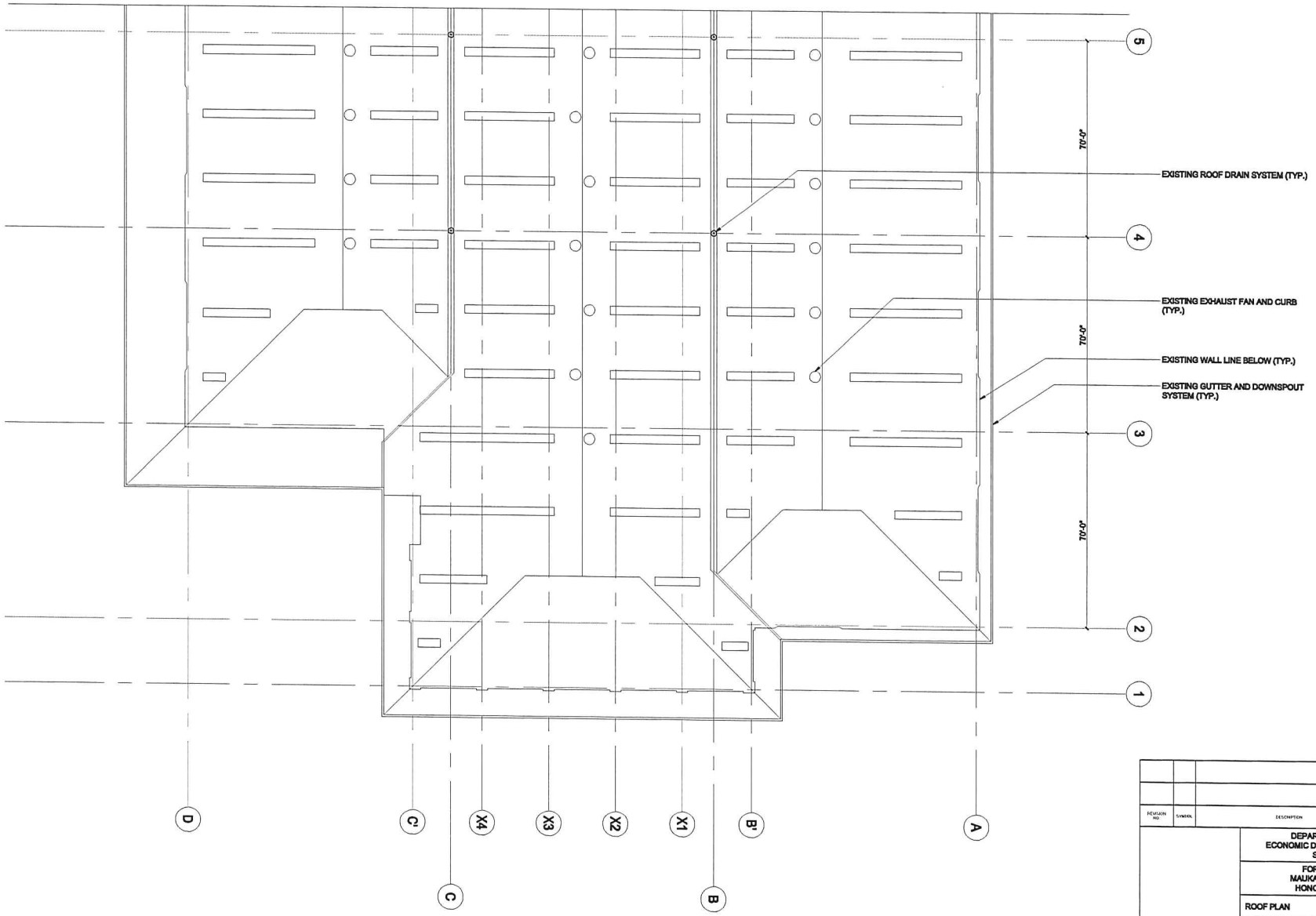
FOREIGN TRADE ZONE
MAUKA OFFICE RENOVATION
HONOLULU, OAHU, HAWAII

GROUND FLOOR DEMOLITION PLAN

LOU CHAN & ASSOCIATES, INC.		PROJECT NO.:	SHEET A1.1
DESIGNED BY: LC	CHECKED BY: LC	DATE: AUGUST 2012	
DRAWN BY: ML	APPROVED BY: LC		OF ____ SHTS.

FILE _____ DRAWER _____ FOLDER _____

8/30/2012 9:51:13 AM



1 / A-2.8 PARTIAL ROOF PLAN
SCALE: 1/16"= 1'-0"

REVISION NO	SYMBOL	DESCRIPTION	SHT OF	DATE

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT AND TOURISM
STATE OF HAWAII

FOREIGN TRADE ZONE
MAUKA OFFICE RENOVATION
HONOLULU, OAHU, HAWAII

ROOF PLAN

LOU CHAN & ASSOCIATES, INC.		PROJECT NO.:	SHEET A1.3
DESIGNED BY: LC	CHECKED BY: LC	DATE: AUGUST 2012	
DRAWN BY: ML	APPROVED BY: LC		OF SHTS.

FILE DRAWER FOLDER

8/30/2012 10:13:16 AM