FOR CONTRACT NO.: 07-278804

INFORMATION HANDOUT

MATERIALS INFORMATION

LIMITED ASBESTOS AND LEAD SURVEY REPORT
FOR CASTAIC TRUCK INSPECTION FACILITY

LIMITED MOLD/FUNGI REPORT - AMBIENT AIR AND BULK (TAPE LIFT)
SAMPLE TESTING AT CALIFORNIA HIGHWAY PATROL FACILITY IN CASTAIC

ROUTE: 07-LA-5-R54.4/R54.8

Obtained from
Robert Strong

12/15/10
(601) 294-5530

LIMITED ASBESTOS AND LEAD SURVEY REPORT

FOR:

CASTAIC TRUCK INSPECTION FACILITY
CALIFORNIA HIGHWAY PATROL
601 NORTH 7TH STREET
SACRAMENTO, CALIFORNIA

PRESENTED TO:

PRESENTED BY:

Environmental Consultants, Inc.
3814 EAST LA PALMA AVENUE
ANAHEIM, CALIFORNIA 92807
(714) 247-0024 FAX: (714) 247-0025

January 26, 2010

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1.0 INTRODUCTION

At the request of the California Highway Patrol, Bainbridge Environmental Consultants, Inc. (BEC) conducted sampling of suspect asbestos and suspect lead containing materials at the Castaic Truck Inspection Facility, located at 27858 Golden State Highway, ~~Castaic~~ Santa Clarita, CA.

The results of the inspection are included in this report. This document has been prepared for the sole use of the California Highway Patrol, any agencies directly involved in this project and BEC. No other party should rely on the information contained herein without prior written consent of BEC.

2.0 ASBESTOS SURVEY/INVESTIGATION

Henry Moreno (CAC) and Dan Mai Ha, (CSST), State of California, performed the asbestos survey activities on December 28, 2009.

The buildings in their entirety were surveyed according to South Coast Air Quality Management District (SCAQMD) Guidelines. This letter report reviews and summarizes the findings outlined in the attached asbestos sample summary and laboratory report.

The sample analysis was performed by Polarized Light Microscopy (PLM) coupled with dispersion staining, EPA method 600/R-93/116, July 1993. All PLM analyses are derived from a calibrated visual estimate unless otherwise noted.

A total of thirty-nine (39) bulk samples were collected by BEC, and analyzed for the presence of asbestos by Micron Environmental Labs, Inc. in El Monte, California, an approved and accredited laboratory.

2.1 ASBESTOS FINDINGS

Asbestos Containing Materials

Material	Location	Quantity	Asbestos %	Sample Number
Beige 9" x 9" Floor Tile / Mastic	Inspection Area	400 ft^2	3% chrysotile	16, 17
White 12" x 12" Floor Tile/Mastic	Storage Room & Throughout the Facility	1000 ft^2	2% chrysotile	13

Due to the representative sampling nature of this survey, certain walls, ceiling, and floor cavities were not exposed/opened at the time of the survey. Therefore, any suspect asbestos components uncovered during the course of construction work which are not identified in this report should be assumed to be asbestos-containing until sampling by BEC proves otherwise.

2.2 ASBESTOS RECOMMENDATIONS

Bainbridge Environmental Consultants, Inc. recommends that the abatement be performed by a Cal/OSHA state licensed asbestos abatement contractor. Any asbestos related work must be conducted in accordance with all applicable federal, State, and local regulations. Firms performing the asbestos-related work must follow proper engineering practices and must use state-of-the-art techniques whenever possible

2.3 DISCLAIMER AND LIMITATIONS FOR ASBESTOS RELATED PROJECTS

This document is prepared for the sole use of the California Highway Patrol and its authorized representatives and any agencies directly involved in this project. No other party should rely on the information contained herein without prior written consent of BEC.

The information in this report or portions thereof may be required to be included in notifications to employees, contractors or other visitors to the building(s). The Owner or its agents shall not use this report as a specification or work plan for any of the work suggested or recommended in the report.

This report is based upon conditions and practices observed at the property and information made available to Bainbridge Environmental Consultants, Inc. This report does not identify all hazards or unsafe practices, nor does it indicate that other hazards or unsafe practices exist at the premises.

The conclusions and summary presented in this report are based on a review of pertinent regulations, and guidelines or requirements commonly followed by industry standards, data collected during the site inspection, and information provided by the California Highway Patrol, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. BEC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

Any observations of asbestos containing materials represent the conditions at the specified locations and times of the site inspection survey only. The selection of sample areas was limited to accessible areas of the property.

3.0 LEAD-BASED PAINT FINDINGS

Lead Paint XRF Testing of Painted Surfaces

In addition, Mr. Dan Mai Ha, a DHS Certified Lead Inspector/Risk Assessor, of Bainbridge Environmental Consultants, Inc. (BEC), conducted a lead-based paint (LBP) of the site.

The scope of work as provided to BEC by the California Highway Patrol was to conduct a LBP inspection of the site building(s) and property in compliance with the following federal, State, and regional laws or regulations:

- 24 CFR Part 35.80-35.98 and 35.3120(b) – U.S. Department of Housing and Urban Development (HUD)
- Toxic Substances Control Act (TSCA) Section 406
- 40 CFR 745.103 – Environmental Protection Agency (EPA)
- Title 17 Section 35000 – Code of California Regulations
- Cal/OSHA Title 8 Section 1532.1 – California Occupational Safety and Health Administration
- Cal/OSHA Title 8 Section 5194 – California Occupational Safety and Health Administration

In compliance with Title 17, CCR, Division 1, Chapter 8 and 24 CFR Subtitle A, Part 35.125, BEC filed the 8552 form as required to notify the California Department of Health Services the findings of the lead inspection/assessment conducted on the Site. For the purpose of this report a positive reading will be defined at or above 0.7 milligrams per square centimeter (0.06%) by weight as per the County of Los Angeles-Department of Health Services.

Currently, the State of California, HUD, and the Environmental Protection Agency (EPA) define lead-based paint as paint or other surface coating with lead content equal to or greater than 1.0 milligram per square centimeter (mg/cm^2) of surface area. However, the County of Los Angeles Department of Health Services defines Lead-Based Paint concentrations at or above 0.7 milligrams per square centimeter (0.06%) by weight.

XRF Paint Readings: XRF measurements were collected in lieu of paint chip sampling and laboratory analysis. The XRF approach to lead-based paint testing minimizes time, cost and extensive repairs and thus provides for a more practical and efficient method of testing.

The Bainbridge Group conducted the survey using a Niton XL 309 Spectrum Analyzer, X-ray Fluorescence (XRF) detector. All survey activities and XRF measurements were performed in accordance with the United States Department of Housing and Urban Development's (HUD) guidance document, entitled *Guidelines for the Evaluation and Control of HUD Guidance Document.* Positive results are lead concentrations above the level equal to or above 1.0 mg/cm^2 or 5,000 parts per million (PPM). *Lead-Based Paint Hazards in Housing*, June 1995, (aka *HUD Guidance Document*). Positive results are lead concentrations above 1.0 mg/cm^2 or 5,000 parts per million. The County of Los AngelesDepartment of Health Services defines Lead-Based Paint concentrations at or above 0.7 milligrams per square centimeter (0.06%) by weight.

The Niton XRF Lead Based Paint Sampling Logs are provided in Appendix B. These logs tabulate each individual test sample taken at the subject. Appendix B also describes the test location, the component on which the paint is applied to, condition, color, lead content in milligrams per square

centimeter and the result as per the HUD guidelines. The positive lead paint results are printed in bold face on the XRF Lead-Based Paint Sampling Log so as to stand out.

3.1 LEAD FINDINGS

A total of nineteen (19) XRF readings were obtained at the site. Two (2) of the 19 XRF readings were noted for calibration purposes in accordance with industry and regulatory protocols.

3.2 RECOMMENDATIONS

Based on the results of the LBP testing, BEC recommends:

- The results of this inspection assessment indicate that lead in amounts greater than or equal to 0.7 mg/cm^2 were not found, therefore controlled lead abatement is not warranted on building components.

- The Occupational Safety and Health Administration promulgated legislation ('29 CFR 1926.62 and 8 CCR1532.1) entitled "Lead Exposure in Construction Industry", requires that any job that may potentially expose workers to any concentration of lead (i.e. >0.01 mg/cm2) be monitored to determine workers eight-hour time weighted average (TWA) exposure to lead.

3.3 DISCLAIMER AND LIMITATIONS FOR LEAD-BASED PAINT AND LEAD COMPONENTS

This document is prepared for the sole use of the California Highway Patrol and its authorized representatives and any agencies directly involved in this project. No other party should rely on the information contained herein without prior written consent of BEC.

The information in this report or portions there of may be required to be included in notifications to employees, contractors or other visitors to the building(s). The Owner or its agents shall not use this report as a specification or work plan for any of the work suggested or recommended in the report.

This report is based upon conditions and practices observed at the property and information made available to Bainbridge Environmental Consultants, Inc. This report does not identify all hazards or unsafe practices, nor does it indicate that other hazards or unsafe practices exist at the premises.

This inspection and assessment was planned, developed, and patterned after the *HUD Guidelines in Chapter 7*. BEC utilized state-of-the-art practices and techniques in accordance with regulatory standards while performing this inspection. BEC's evaluation of the relative risk of exposure to lead identified during this inspection/risk assessment is based on conditions observed at the time of the inspection. BEC cannot be responsible for changing conditions that may alter the relative exposure risk or for future changes in accepted methodology.

The conclusions and summary presented in this report are based on a review of pertinent regulations, and guidelines or requirements commonly followed by industry standards, data collected during the site inspection, and information provided by the California Highway Patrol, their clients, agents, and representatives.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. BEC believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

Any observations of lead-based paint and lead containing materials represent the conditions at the specified locations and times of the site inspection survey only. The selection of sample areas was limited to accessible areas of the property.

APPENDIX A

ASBESTOS SAMPLE LOG
AND
ASBESTOS LABORATORY RESULTS

ASBESTOS - BULK SAMPLE SUBMITTAL

BAINBRIDGE
Environmental Consultants, Inc.

CLIENT: California Highway Patrol
SITE NAME: Castaic Truck Inspection Station
BEC JOB #: 09123469.00

ADDRESS: 27858 Golden State Hwy, Castaic, CA
TECHNICIAN: Henry Moreno/Dan Mai Ha
DATE: December 28, 2009

SAMPLE NUMBER	BUILDING NAME	AREA/ROOM NAME	LOCATION IN ROOM	MATERIAL DESCRIPTION	RESULT
1	Portable Building	Restroom	Baseboard	Grey	None Detected
2	Portable Building	Restroom	Baseboard	Grey	None Detected
3	Portable Building	Restroom	Baseboard	Grey	None Detected
4	Portable Building	Restroom	1'X1' Floor Tile	Grey	None Detected
5	Portable Building	Restroom	1'X1' Floor Tile	Grey	None Detected
6	Portable Building	Restroom	1'X1' Floor Tile	Grey	None Detected
7	Portable Building	Restroom	2'X4' Ceiling Tile	Grey	None Detected
8	Portable Building	Restroom	2'X4' Ceiling Tile	Grey	None Detected
9	Portable Building	Restroom	2'X4' Ceiling Tile	Grey	None Detected
10	Portable Building	Office Area	2'X4' Ceiling Tile	Yellow	None Detected
11	Portable Building	Office Area	2'X4' Ceiling Tile	Yellow	None Detected
12	Portable Building	Office Area	2'X4' Ceiling Tile	Yellow	None Detected
13	Main Building	Storage Room	1'X1' Floor Tile	White	2% Chrysotile
14	Main Building	Dining Area	1'X1' Floor Tile	Yellow	None Dectected
15	Main Building	Electrical Closet	1'X1' Floor Tile	Yellow	None Dectected
16	Main Building	Inspection Area	9"X9" Floor Tile	Beige	2% Chrysotile

ASBESTOS - BULK SAMPLE SUBMITTAL

BAINBRIDGE
Environmental Consultants, Inc.

CLIENT: California Highway Patrol
SITE NAME: Castaic Truck Inspection Station
BEC JOB #: 09123469.00
ADDRESS: 27858 Golden State Hwy, Castaic, CA
TECHNICIAN: Henry Moreno/Dan Mai Ha
DATE: December 28, 2009

SAMPLE NUMBER	BUILDING NAME	AREA/ROOM NAME	LOCATION IN ROOM	MATERIAL DESCRIPTION	RESULT
17	Main Building	Inspection Area	9"X9" Floor Tile Mastic	Black	3% Chrysotile
18	Main Building	Inspection Area	Baseboard	Brown	None Detected
19	Main Building	Throughout	Baseboard-Mastic	Yellow	None Detected
20	Main Building	Throughout	Baseboard	Brown	None Detected
21	Main Building	Throughout	Baseboard	Brown	None Detected
22	Main Building	Men's Restroom	Linoleum	Beige	None Detected
23	Main Building	Men's Restroom	Linoleum	Beige	None Detected
24	Main Building	Men's Restroom	Linoleum	Beige	None Detected
25	Main Building	Throughout	1'X1' Ceiling Tile	Beige	None Detected
26	Main Building	Throughout	1'X1' Ceiling Tile	Grey	None Detected
27	Main Building	Throughout	1'X1' Ceiling Tile	Grey	None Detected
28	Main Building	Throughout	Drywall	White	None Detected
29	Main Building	Throughout	Drywall	White	None Detected
30	Main Building	Throughout	Drywall	White	None Detected
31	Main Building	Insultation Closet	Insulation	Yellow	None Detected
32	Main Building	Insultation Closet	Insulation	Yellow	None Detected

ASBESTOS - BULK SAMPLE SUBMITTAL

BAINBRIDGE
Environmental Consultants, Inc.

CLIENT: California Highway Patrol
SITE NAME: Castaic Truck Inspection Station
BEC JOB #: 09123469.00
ADDRESS: 27858 Golden State Hwy, Castaic, CA
TECHNICIAN: Henry Moreno/Dan Mai Ha
DATE: December 28, 2009

SAMPLE NUMBER	BUILDING NAME	AREA/ROOM NAME	LOCATION IN ROOM	MATERIAL DESCRIPTION	RESULT
33	Main Building	Insultation Closet	Insulation	Yellow	None Detected
34	Canopy Building	Throughout	1'X1' Ceiling Tile	Black	None Detected
35	Canopy Building	Throughout	1'X1' Ceiling Tile	Black	None Detected
36	Canopy Building	Throughout	1'X1' Ceiling Tile	Black	None Detected
37	Main Building	Roofing Material	Roof Sheeting	Black	None Detected
38	Main Building	Roofing Material	Roof Sheeting	Black	None Detected
39	Main Building	Roofing Material	Roof Sheeting	Black	None Detected

Micron Environmental Labs
3565 Lexington Ave.
El Monte, CA 91731
626-454-4782
FAX: 626-454-4849

Analytical Method: EPA 600/R-93/116
NIST / NVLAP Lab Code No. 200294-0
California ELAP Certificate No. 2297

Micron Ref. No.
12609115

Sample Summary Results

Customer Project: *27858 Golden State Hwy.* Microscopist: *Daniel Gamez*

January 7, 2010

Henry Moreno
Bainbridge Environmental Consultants
3814 E. La Palma Av.
Anaheim, CA 92807

Date Collected: *December 28, 2009*
Date Received: *December 30, 2009*
Date Analyzed: *January 5, 2010*
No. Samples: *41*

Cust ID No. / Micron ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
1 / 275327	Baseboard / grey	No	100% Organic Binders	X
2 / 275328	Baseboard / grey	No	100% Organic Binders	
3 / 275329	Baseboard / grey	No	100% Organic Binders	
4 / 275330	1x1 Floor Tile / grey	No	100% Mineral Filler	
5 / 275331	1x1 Floor Tile / grey	No	100% Mineral Filler	

Sample Summary Results

Date: *January 7, 2010*

Microscopist: *Daniel Gamez*

Micron Ref. No.: *12609115*

Cust ID No. / Micron ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
6 275332	1x1 Floor Tile grey	No	100% Mineral Filler	
7 275333	2x4 Ceiling Tile grey	No	60% Cellulose 20% Fibrous Glass 20% Mineral Filler	
8 275334	2x4 Ceiling Tile grey	No	60% Cellulose 20% Fibrous Glass 20% Mineral Filler	
9 275335	2x4 Ceiling Tile grey	No	60% Cellulose 20% Fibrous Glass 20% Mineral Filler	
10 275336	2x4 Ceiling Tile yellow	No	100% Fibrous Glass	
11 275337	2x4 Ceiling Tile yellow	No	100% Fibrous Glass	X
12 275338	2x4 Ceiling Tile yellow	No	100% Fibrous Glass	
13 275339	1x1 Floor Tile white	Yes	2% chrysotile 98% Mineral Filler	

Sample Summary Results

Date: *January 7, 2010*

Microscopist: *Daniel Gamez*

Micron Ref. No.: *12609115*

Cust ID No. / Micron ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
13 275339	1x1 Floor Tile-Mastic yellow	No	100% Organic Binders	
14 275340	1x1 Floor Tile-Mastic yellow	No	100% Organic Binders	
15 275341	1x1 Floor Tile-Mastic yellow	No	100% Organic Binders	
16 275342	9x9 Floor Tile beige	Yes	2% chrysotile 98% Mineral Filler	
16 275342	9x9 Floor Tile-Mastic black	Yes	3% chrysotile 97% Organic Binders	
19 275345	Baseboard brown	No	100% Organic Binders	
19 275345	Baseboard-Mastic yellow	No	100% Organic Binders	
20 275346	Baseboard brown	No	100% Organic Binders	

Sample Summary Results

Date: *January 7, 2010*

Micron Ref. No.: *12609115*

Microscopist: *Daniel Gamez*

Cust ID No. / Micron ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
20 275346	Baseboard-Mastic yellow	No	100% Organic Binders	
21 275347	Baseboard brown	No	100% Organic Binders	X
No mastic available for analysis				
22 275348	Linoleum beige	No	100% Organic Binders	
23 275349	Linoleum beige	No	100% Organic Binders	
24 275350	Linoleum beige	No	100% Organic Binders	
25 275351	1x1 Ceiling Tile beige	No	60% Cellulose 20% Fibrous Glass 20% Mineral Filler	
26 275352	1x1 Ceiling Tile grey	No	60% Cellulose 20% Fibrous Glass 20% Mineral Filler	
27 275353	1x1 Ceiling Tile grey	No	60% Cellulose 20% Fibrous Glass 20% Mineral Filler	

Sample Summary Results

Date: *January 7, 2010*

Microscopist: *Daniel Gamez*

Micron Ref. No.: *12609115*

Cust ID No. / Micron ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
28 275354	Drywall white	No	100% Mineral Filler	
29 275355	Drywall white	No	100% Mineral Filler	
30 275356	Drywall white	No	100% Mineral Filler	
31 275357	Insulation yellow	No	100% Fibrous Glass	X
32 275358	Insulation yellow	No	100% Fibrous Glass	
33 275359	Insulation yellow	No	100% Fibrous Glass	
34 275360	1x1 Floor Tile black	No	100% Mineral Filler	
35 275361	1x1 Floor Tile black	No	100% Mineral Filler	

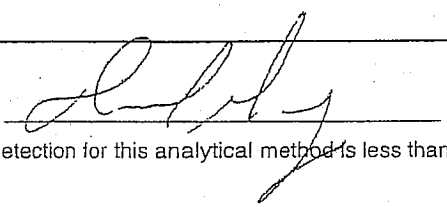
Sample Summary Results

Date: *January 7, 2010*

Microscopist: *Daniel Gamez*

Micron Ref. No.: *12609115*

Cust ID No. / Micron ID No.	Sample Description / Color	Asbestos Detected	Analytical Results	Q.C.
36 275362	1x1 Floor Tile black	No	100% Mineral Filler	
37 275363	Roof Sheeting black	No	10% Fibrous Glass 40% Mineral Filler 50% Organic Binders	
38 275364	Roof Sheeting black	No	5% Fibrous Glass 45% Mineral Filler 50% Organic Binders	
39 275365	Roof Sheeting black	No	5% Fibrous Glass 45% Mineral Filler 50% Organic Binders	

Microscopist: 

The limit of detection for this analytical method is less than one percent asbestos (visual area estimates). CV=0.04

APPENDIX B

LEAD XRF LOGS

BAINBRIDGE
Environmental Consultants, Inc.

Lead - SAMPLE SUBMITTAL

Site: Castaic Truck Inspection Station
Address: 27858 Golden State Hwy
Castaic, CA

BEC Project #: 09123469.00
Inspector/Sampler: Henry Moreno/Dan Mai Ha
Date: December 29, 2009
Serial: #U941NR7107

XLNo	Side	Bldg	Room	Source	Substrate	Color	Quantity	Result	Pos/Neg
1/ 252	N/A	N/A	N/A	Calibration	N/A	Red	N/A	1.10	Pos
2/ 253	A	Portable Bldg	Office	Door Frame	Metal	Black	N/A	-0.20	Neg
3/ 254	B	Portable Bldg	Office	Door Frame	Metal	Brown	N/A	0.01	Neg
4/ 255	A	Portable Bldg	Restroom	Toilet Stall	Metal	Brown	N/A	0.00	Neg
5/ 256	A	Portable Bldg	Exterior Door	Door	Metal	Blue	N/A	0.20	Neg
6/ 257	A	Portable Bldg	Exterior Siding	Siding	Wood	Brown	N/A	0.00	Neg
7/ 258	A	Portable Bldg	Exterior Window	Frame	Wood	Blue	N/A	0.00	Neg
8/ 259	B	Main Bldg	Exterior Siding	Siding	Plaster	Tan	N/A	0.40	Neg
9/ 260	B	Main Bldg	Dining Area	Door	Metal	Lt Brown	N/A	0.00	Neg
10/ 261	C	Main Bldg	Dining Area	Kitchen Wall	Ceramic Tile	Tan	N/A	0.00	Neg
11/ 262	C	Main Bldg	Wall-Dining	Wall	Plaster	White	N/A	0.00	Neg
12/ 263	C	Main Bldg	Bathroom Wall	9X9 Ceramic Tile	Ceramic Tile	White	N/A	0.00	Neg
13/ 264	A	Main Bldg	Bathroom	Toilet Stall	Metal	Gray	N/A	0.00	Neg
14/ 265	B	Main Bldg	Exterior Door	Door	Metal	Blue	N/A	0.01	Neg
15/ 266	C	Canopy Bldg	Exterior Siding	Siding	Metal	Tan	N/A	0.01	Neg
16/ 267	C	Canopy Bldg	Interior Siding	Siding	Metal	White	N/A	0.20	Neg
17/ 268	C	Canopy Bldg	Exterior Door	Door	Metal	Blue	N/A	0.00	Neg
18/ 269	C	Canopy Bldg	Exterior Panels	Electrical Panels	Metal	Tan	N/A	0.09	Neg
19/ 270			N/A	Calibration	N/A	Red	N/A	1.20	Pos

3814 E. La Palma Ave. Anaheim, CA 92807

Phone: 714-247-0024
Fax: 714-247-0025

APPENDIX C

LEAD AND ASBESTOS INSPECTOR'S CERTIFICATIONS

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

Henry A Moreno
Name

Certification No. 03-3494

Expires on 12/17/10

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate	Certificate Type	Expiration Date
	Inspector/Assessor	05/28/2010

Henry A. Moreno ID #: 9970

State of California
Division of Occupational Safety and Health
Certified Site Surveillance Technician

Dan H Mai Ha

Name

Certification No. 09-2693

Expires on 02/04/10

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code

State of California Department of Public Health

Lead-Related Construction Certificate	Certificate Type	Expiration Date
	Project Monitor	06/22/2010

Dan H Mai Ha ID # 9967

January 26, 2010

BAINBRIDGE
Environmental Consultants, Inc.

Ms. Dolores Ochoa
California Highway Patrol
601 North 7th Street
Sacramento, CA 95811

RE: Limited Mold/Fungi Report – Ambient Air and Bulk (Tape Lift) Sample Testing at California Highway Patrol Facility at 27858 Golden State Highway, Castaic, California

At the request of the California Highway Patrol Facilities Section, Bainbridge conducted a microbial investigation in the facility mentioned above. The investigation included non-destructive visual, odor, non-viable spore trap and bulk (tape lift) sample testing, and moisture meter sample testing. The investigation was performed by Henry Moreno and Dan Mai Ha on December 29, 2009. This report contains our findings and recommendations subsequent to our investigation.

Mold Assessment/Investigation and Findings

The purpose of this investigation was to inspect and assess any conditions that would prevent the occupants from using the subject areas due to concerns and suspicions of mold growth.

Several criteria were used to determine the presence of mold in the subject areas. The visual inspection assessment was supplemented by testing techniques and methodologies performed in accordance with indoor air quality industry standards. The testing techniques included non-viable spore trap and bulk sampling (tape lifts), and surface moisture meter testing. The work was performed in accordance with industry guidelines and practices as outlined in the ACGIH 2003 publication, Bioaerosols: Assessment and Control.

Samples collected were submitted for analysis to an independent laboratory – Micron Environmental Labs, El Monte, California. Micron has AIHA (EMPAT) Certification No. 103012 and CA ELAP Certification No. 2297. All samples were qualitative analyzed for the identification of fungal type.

Visual - As a result of the visual inspection, Bainbridge did not observed water damaged surfaces, or visual fungal growth on the walls, windows, ceilings and other building surfaces in the subject building areas. Surface and exploratory inspection assessments were conducted on three dates/occasions during the course of the investigation. Abundant dust accumulation was observed in various areas throughout the subject building. The work was performed in accordance with industry guidelines and practices as outlined in the ACGIH 2003 publication, Bioaerosols: Assessment and Control.

Moisture Testing - Moisture content of the drywall in the Janitor Room on the north wall measured elevated (between 0.5% and 1.0%). Moisture content of building materials

throughout the facility measured normal (between 0.0% and 5.0%). The moisture meter sampling was conducted using the Delmhorst BD-2100.

Non-viable Air Samples – Five (5) non-viable air samples were collected as a "snapshot" to assess airborne mold spores present in the indoor environment. The results of the non-viable air samples did not indicate significantly higher levels of mold spores inside the buildings in comparison to the outside air levels or dissimilar sport types. Refer to Appendix A.

Surface Tape Lift Samples – Two (2) tape lift surface samples were collected in random suspect areas. The results of the bulk (tape lift) samples collected indicate trace levels of Aspergillius/Penicillium. Refer to Appendix A.

All findings and the recommendations presented in this report may be considered representative of other areas in the building that could not be inspected due to inaccessibility.

Conclusions and Recommendations

Based on these findings, mold remediation is not warranted.

However, preventative measures should be taken to avoid potential future microbiological-mold growth. These measures include periodic visual inspections as part of the CHP's maintenance program, periodic air sampling (as warranted) and other means that may potentially help eliminate sources of microbial growth such as identifying water intrusion, water absorption and high humidity in a building.

All work, which could result in the disturbance of mold contamination, should be performed by individuals with experience and training in microbial-remediation in accordance with the guidelines contained in the EPA publication *Mold Remediation in Schools and Commercial Buildings* (EPA 402-K-01-001, March 2001). Per these guidelines, work practices should minimize the disturbance of mold-contaminated materials and adequately protect the individuals performing the work.

Present Guidelines

To date, there are no federal, State or local laws that regulate or provide standards or guidelines for the proper identification, handling and thresholds for permissible exposure limits (PEL's) for mold exposure. Several government agencies including the US EPA Office of Air and Radiation, The New York City Department of Health and Mental Hygiene (NYCDMH) and the IICRC S520 "The Standard and Reference Guide for Professional Mold Remediation" have developed policies to address medical and remediation issues regarding mold.

The California State Legislature has enacted SB 732:Civil Code 26100 et seq. for the development of standards related to mold exposure in the working environment. In the meantime, there are no regulatory-based criteria to determine if a measured level of biological contaminants is a risk factor for allergenic reactions or disease. Therefore, analysis of the air sampling performed cannot be based on regulatory standards, thresholds or PEL's, which would have to be established for each genus, species of microbes and for different building functions.

It is an acceptable standard that visible biological growth is considered inappropriate in an indoor environment. Commonly, indoor spore levels are compared to outdoor levels, or disproportionate high levels of one spore type may be indicative of indoor mold amplification. The American Conference of Governmental Industrial Hygienists (ACGIH) recommends that sampling be conducted within the affected area, the unaffected area and ambient outside area to determine variations in type and quantity of bioaerosols present.

Typically, the concentration of bioaerosols is considered elevated if the interior levels are higher than the levels at the ambient areas, (except for such conditions with high traffic which may include a typical office or hallway) – or if organisms detected differ between the indoors and the outdoors, or if pathogenic organisms are detected. The presence of elevated varied bioaerosols does not necessarily mean they are responsible for the symptoms experienced by the individual. An evaluation of the affects of bioaerosols must be made in conjunction with appropriate medical evaluation.

Disclaimer and Limitations

The conclusions and summary presented in this report are based on a review of present guidelines and/or requirements commonly followed by industry standards, data collected during the site inspection, and information provided by The California Highway Patrol or their agents and representatives.

Any observations, inspection-investigative methodology, variables in methodologies and materials found represent the conditions at the specified location and time of the site inspection only. These conditions could change as a result of any number of factors including environmental parameters, fungal growth patterns, and activities in the area. Bainbridge does not guarantee that all fungal contaminated areas in the subject property were identified during the limited assessment investigation.

The work has been conducted in an objective and unbiased manner and in accordance with generally accepted professional practice for this type of work. Bainbridge believes the data and analysis to be accurate and relevant, but cannot accept responsibility for the accuracy or completeness of available documentation or possible withholding of information by other parties.

This report is based upon conditions and practices observed at the property and information made available to Bainbridge Environmental Consultants, Inc. This report is not intended to guarantee that the affected area is or not free from conditions that could pose a threat to human health or safety. This report furthermore does not identify all hazards or unsafe practices, nor does it indicate that other hazards or unsafe practices exist at the premises.

APPENDIX A

MOLD
TESTING DATA AND LABORATORY RESULTS

Micron Environmental Labs
3565 Lexington Av.
El Monte, CA 91731
(626)454-4849 FAX
(626)454-4782

AIHA (EMPAT) ID No.: 103012
CA ELAP Certificate No.: 2297

Project#: Main Inspection Building
Project Name: Castaic Truck Inspection Station

Company: The Bainbridge Group, Inc.
Address: 3814 E. La Palma Av.
Anaheim, CA 92807

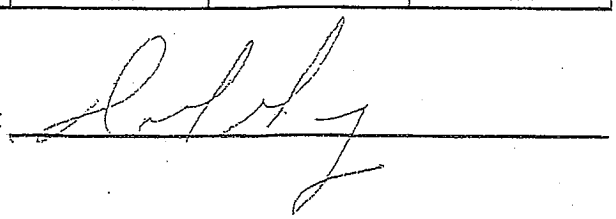
Date: 1/5/10
Micron Ref #: 12609114

Date collected: 12/29/09
Date received: 12/30/09
Date analyzed: 1/5/10
Number Received: 2

Qualitative Mold Sample Analysis
(Tape Lift, etc.)

mold type	sample# 275325 TL1	sample# 275326 TL2	sample#	sample#	sample#
alternaria					
asp/pen	Trace				
cladosporium	Trace				
stachybotrys					
ascospores					
basidiospores					
botrytis					
chaetomium					
smut					
curvularis					
bipolaris					
fusarium					
pithomyces					
rust u.					
epicoccum					
myxomycete					
ulocladium					
none detected		ND			
total spores (Cts/m³)	N/A	N/A	N/A	N/A	N/A
hyphae fragments					
algal spores					
pollen non-specific					
non-desc dust					

sample flow rate(lpm)	N/A	N/A	N/A	N/A	N/A
sampling time(min)	N/A	N/A	N/A	N/A	N/A
volume	N/A	N/A	N/A	N/A	N/A

analyst: 

Micron Environmental Labs
3567 Lexington Av.
El Monte, CA 91731
(626)454-4849 FAX
(626)454-4782

AIHA (EMPAT) ID No.: 103012
CA ELAP Certificate No.: 2297

Project#: CHP
Project Name: Castaic Truck Inspection

Company: The Bainbridge Group, Inc.
Address: 3814 E. La Palma Av.
Anaheim, CA 92807

Date: 1/5/10
Micron Ref #: 12609113

Date collected: 12/28/09
Date received: 12/30/09
Date analyzed: 1/5/10
No. of samples: 5

Quantitative Mold Air Sample Analysis
(Air-o-Cell,etc)

mold type	sample# 275320 5114	sample# 275321 5903	sample# 275322 889	sample# 275323 5087	sample# 275324 5089
alternaria	2 (13.3)				
asp/pen	47 (313.3)	43 (286.6)	45 (299.9)	50 (333.3)	5 (33.3)
cladosporium	32 (213.3)	6 (39.9)	2 (13.3)	3 (19.9)	6 (39.9)
stachybotrys					
ascospores	4 (26.6)				
basidiospores	4 (26.6)	1(6.6)	1 (6.6)	1 (6.6)	4 (26.6)
botrytis					
chaetomium					
smut	1 (6.6)				
curvularis					
bipolaris					
oidium					
nigrospora					
rust u.					
epicoccum					
myxomycete					
torula					4 (26.6)
ulocladium	2 (13.3)				
total spores (Cts/m³)	92 (613.1)	50 (333.3)	48 (319.9)	54 (359.9)	19 (126.5)
hyphae fragments					
algal spores					
pollen non-specific					
non-desc dust					

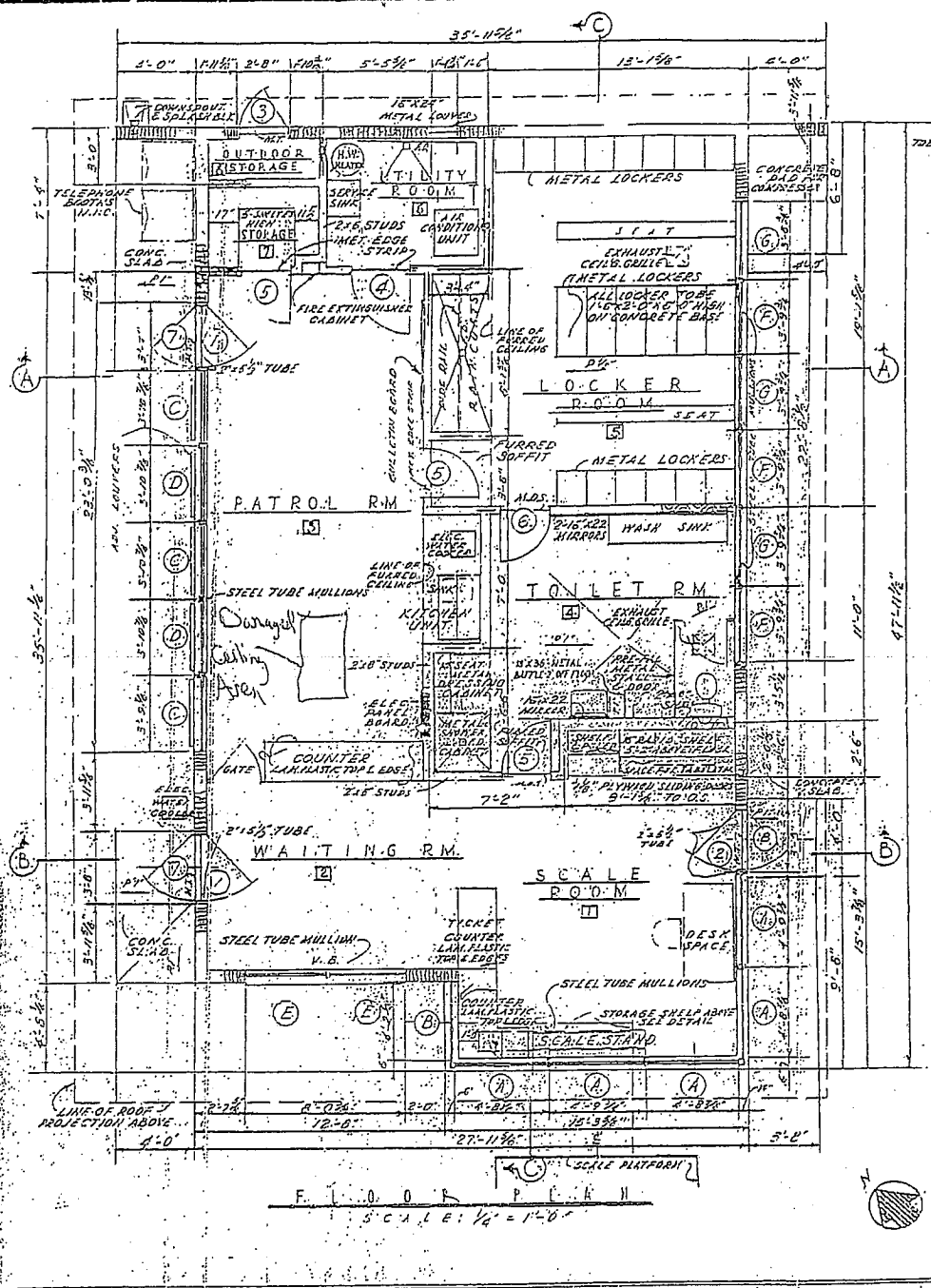
sample flow rate(lpm)	15	15	15	15	5
sampling time(min)	10	10	10	10	10
volume	150	150	150	150	150

analyst:

APPENDIX B

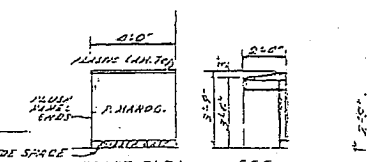
FLOOR PLAN DIAGRAM

Main Inspection Office



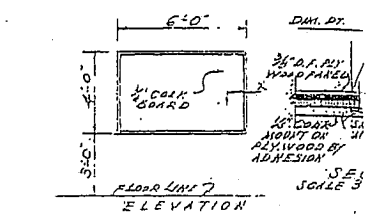
FLOOR PLAN

SCALE: 1/4" = 1'-0"



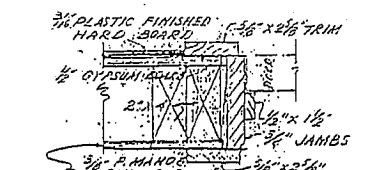
FRONT ELEV. SEC.

TICKET COUNTER

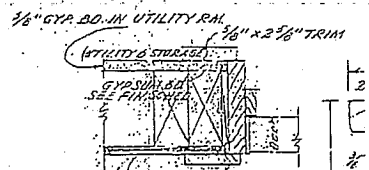


ELEVATION

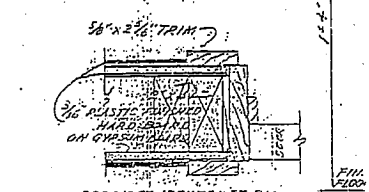
BULLETIN BOARD



DOORS TO { TOILET RM. / LOCKER RM.



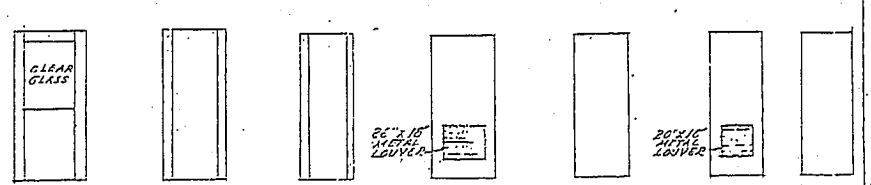
DOORS TO { STORAGE RM. / UTILITY RM.



DOOR BETWEEN TOILET RM. & LOCKER RM.

TYPICAL INTERIOR DOORS FRAMES

DOOR & WINDOW SCHEDULE



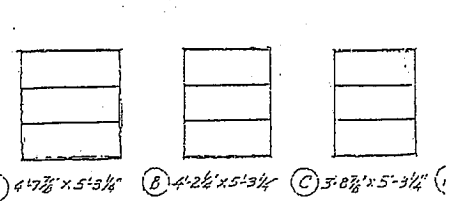
(1) 3'-6"x7'-0" (2) 3'0"x7'-0" (3) 2'-6"x7'-0" (4) 3'-6"x6'-8" (5) 2'-6"x6'-8" (6) 2'-6"x6'-0" (7) 2'-6"x7'-0" (8) 3'-0"x7'-0"

1¾" HOLLOW METAL DOORS

1⅛" SOLID CORE FLUSH WOOD DOORS

BOTH SIDES OF DOORS NO. 4 & 5 TO BE PHILIPPINE MAHOGANY

ILLUM. SCREEN DOOR



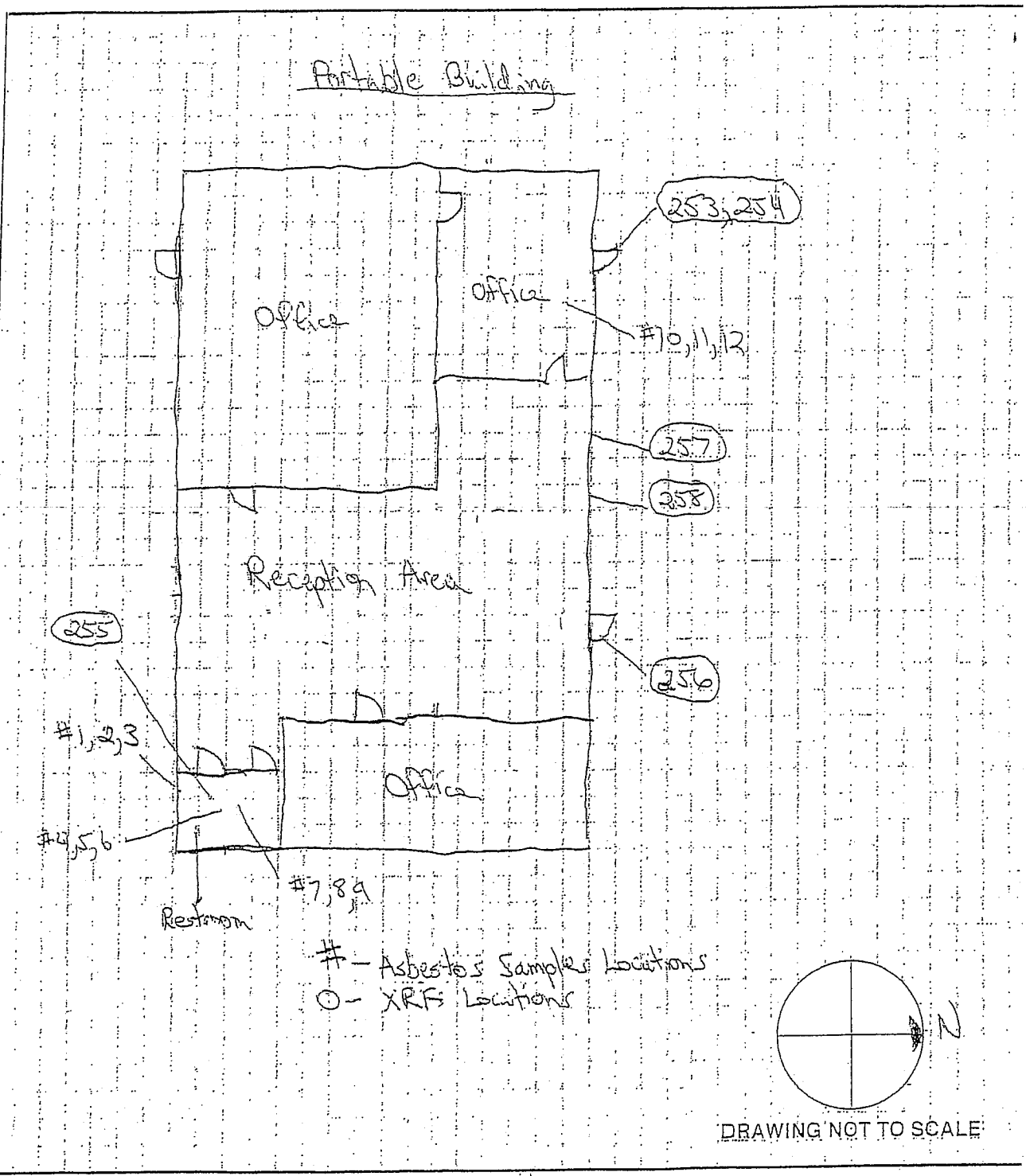
(A) 4'-7⅞"x5'-3⅛" (B) 4'-2⅛"x5'-3¼" (C) 3'-8⅞"x5'-3¼"

ALUMINUM WINDOWS - PROJECTED WHERE INDICATED

(PROVIDE SCREENS AT ALL VENTED WINDOWS)

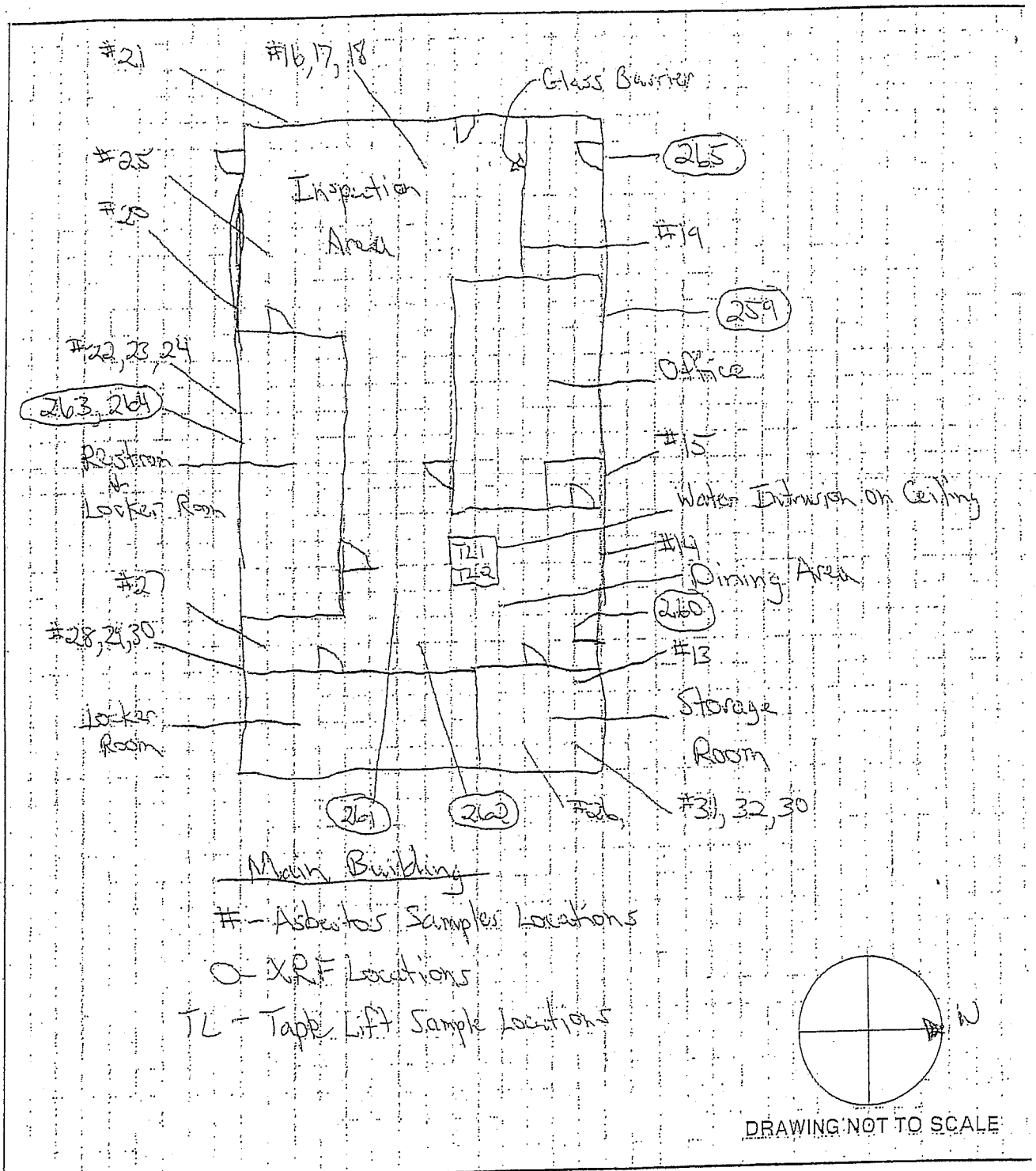
PROJECT ENGINEER	DATE	DRAWN BY	DATE	APPROVED BY	DATE
B.E. Klumb	6/12/61	W.S. Nishimoto	6/12/61	W.E. Schaefer	6/13/61

Date Completed
Document No. 2222-2-2



BAINBRIDGE
Environmental Consultants, Inc.

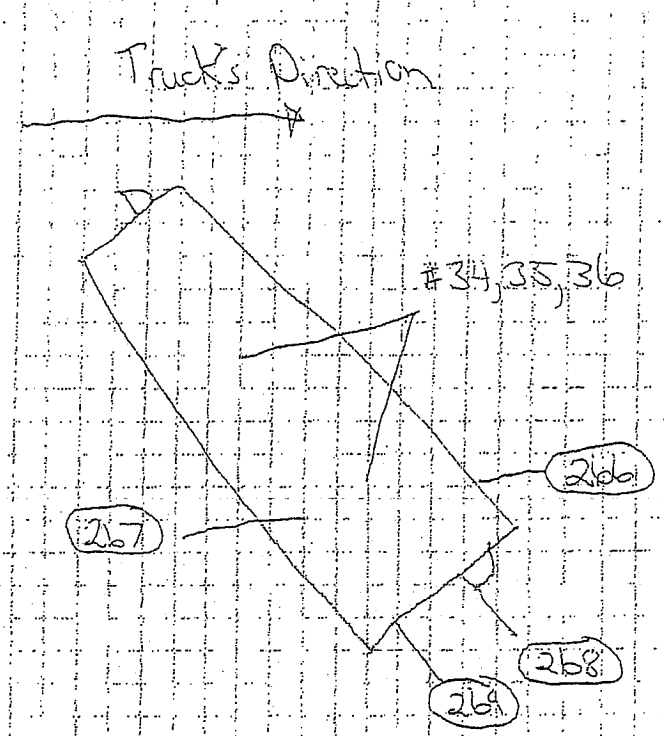
Client: CHP
Property: Eastside Truck Inspection Station
Address: 27858 Golden State Hwy
Reference:
Job No.:



BAINBRIDGE
Environmental Consultants, Inc.

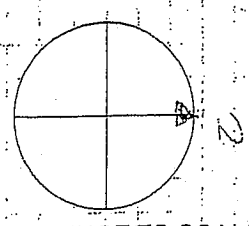
Client: CHP
Property: Custaic Truck Inspection Station
Address: 27858 Golden State Hwy
Reference:
Job No.:

Inspection Canopy Building



#- Asbestos Samples Locations

O- XRF Locations



DRAWING NOT TO SCALE

BAINBRIDGE
Environmental Consultants, Inc.

Client: CHP
Property: Castaic Truck Inspection Station
Address: 27858 Golden State Hwy
Reference:
Job No.: