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LEAD BASED PAINT SURVEY REPORT

ARMY RESERVE CENTER 4 (ID: Building 154)

NASA-AMES

Moffett Field, CA 94035

PREPARED FOR

NASA AMES PAI CORPORATION
NASA Ames Research Center
Moffett Field, CA 94035-1000

PREPARED BY

Benchmark Environmental Engineering
February, 2002
Project Number: E01-612-L-SU

Prepared By:

A handwritten signature in black ink, appearing to read "Richard E. MacFarlane", written over a horizontal line.

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BUILDING INSPECTIONS

ENVIRONMENTAL ENGINEERING

SPECIALIZED TRAINING

CONTRACT MANAGEMENT

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EXECUTIVE SUMMARY

Benchmark Environmental Engineering was retained by PAI Corporation, to conduct a lead-based paint survey at Building located at Moffett Field, California.

In order to determine if lead based paint was present, 188 assays were taken using an X-RAY FLUORESCENCE (XRF) instrument. The results indicated that the following building components were above the EPA and DHS level of 1.0 mg/cm² or 5000 PPM.

Lead-based Paint was identified on the following building components:

Exterior:

- ◆ Door Frame, Fixed Window Panel, Window Sill, Stair Riser.

Interior:

- ◆ Basement Stairwell – Handrail.
- ◆ Stairwell at Room 121 – Door Frame.

INTRODUCTION

Benchmark Environmental Engineering was retained by Mr. Kris McGlothlin, to conduct a lead-based paint survey at NASA Ames-PAI Corporation, Moffett Field, California.

Authorization to perform this survey was received via signed agreement to BENCHMARK from Mr. Kris McGlothlin, on or about August 1, 2001, as referenced by BENCHMARK'S proposal E01-612.

BACKGROUND

This structure is a two-story facility with a basement. It was built in 1953. The construction is concrete over a concrete foundation and with a flat composite roof.

WARRANTY

Benchmark Environmental Engineering warrants that the findings contained herein have been prepared with the level of care and skill exercised by experienced and knowledgeable environmental consultants who are appropriately licensed or otherwise trained to perform lead-related construction risk assessments and inspections pursuant to the scope of work required on this Project.

The survey included inspection of accessible materials. BENCHMARK did not inspect or sample inaccessible areas such as behind walls or within ductwork, and did not dismantle any part of the structure to survey inaccessible areas. For the purpose of this warranty, inaccessible is defined as areas of the building that could not be tested (sampled) without destruction of the structure or a portion of the structure. Inaccessible materials that are not visible to Benchmark's inspectors are assumed to be lead containing.

Authorization to perform this survey was received by BENCHMARK from Mr. Kris McGlothlin, of The PAI Corporation, on August 1, 2001, as referenced by Benchmark's Proposal E01-612.

The survey was conducted in February of 2002. A comprehensive site survey was performed based on the building plan. All building components identified in the specifications that may contain lead-based paint/coating were targeted for testing. (Exterior and interior walls, exterior and interior windows, doors and numerous associated components).

Sampling protocol for identification of lead-based paint was in accordance with The U.S. Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing, Chapter 7. All suspect lead-coated surfaces were identified by building, wall, and building component, as such each component had a unique identification number.

The report establishes lead concentrations in painted surfaces as a general guidance tool for the purpose of conducting demolition activities for Building 154.

A total of 188 XRF assays collected within this building.

SCOPE OF SERVICES

Benchmark recognized the scope of work for the NASA Ames-PAI Corporation, to be composed of a Lead Based Paint Inspection for the Army Reserve Center 4 (ID: Building 154). The survey consisted of testing for lead-base paint in general accordance with the U.S Department of Housing and Urban Development (HUD) guidelines for the evaluation and control of Lead-Based Paint Hazards in Housing, Chapter 7.

Certain building components that are adjacent to each other and not likely to have different painting histories have been grouped together into a single testing combination, as follows: Window Casings/Stops/Jambs/Aprons -Or- Door Jambs/Stops/Transoms/Casings and other door frame parts.

The following building components were inspected when applicable:

- Exterior Areas:

Walls	Windows
Windowsills	Stair Handrails
Doors	Door Molding
Downspouts	Window Screen
Building Trim	Skylight
Balusters	Stair Handrail
Stair Risers	Support Pillar

- Interior Areas:

Walls	Windows
Windowsills	Stair Treads
Balusters	Doors
Door Molding	Stair Stringer
Ceilings	Ceiling Molding
Skylight	Floors
Ceiling Molding	Grates
Baseboards	Support Beams
Electrical Box	Book Shelf
Chair Rail	Wainscot

METHODOLOGY

GENERAL REFERENCES

Inspection, sampling, and assessment procedures were performed in general accordance with the guidelines published by The Department of Housing and Urban Development's (HUD) 1995 Guidelines, Chapter 7. The survey consisted of three major activities: visual inspection, sampling, and analysis. Although these activities are listed separately, they are integrated tasks.

VISUAL INSPECTION

An inspector that is a Department of Health Services Certified Lead Inspector/Risk Assessor performed the inspection. An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or exposed.

SAMPLING PROCEDURES

Following the walkthrough, the inspector selected samples areas of exposed or accessible materials identified as suspect LBP. EPA and HUD guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous material.

X-RAY FLUORESCENCE (XRF) ANALYSIS

XRF instruments measure lead in paint by directing high energy X-rays and gamma rays into the paint, causing the lead atoms in the paint to emit X-rays which are detected by the instrument and converted to a measurement of the amount of lead in the paint. The EPA approved technology allows for measurement of X-rays without scraping or samples preparation to characterize substrate or matrix effects. The Spectrum Analyzer, Metals Analysis Probe (MAP 4) is combined with a microprocessor system that enables field-testing with a high degree of quality control and speed. Sample locations, descriptions, conditions, and measurement results are automatically recorded by the instrument and easily downloaded to a PC or laptop.

QUALITY CONTROL PROGRAM

Benchmark Environmental Engineering utilizes only DHS approved inspectors, which are certified to use radioactive instruments. The MAP 4 Spectrum Analyzer has on-board calibration routines, which continuously operate, and self-correct to minimize sampling error. This is known as substrate correcting software.

FINDINGS AND OBSERVATIONS

LEAD

A total of 188 assays were taken. The results indicated that seven (7) assays contained lead above the EPA and DHS level of 1.0 mg/ cm² or greater. The components, which contain lead-based paint, are:

Exterior:

- ◆ Door Frame, Fixed Window Panel, Window Sill, Stair Riser.

Interior:

- ◆ Basement Stairwell – Handrail.
- ◆ Stairwell at Room 121 – Door Frame.

Cal/OSHA's Lead in Construction Standard, Title 8, CCR section 1532.1, is primarily concerned with worker protection when disturbing any detectable level of lead in paint or surface coatings.

Assays with results **less than** 1.0 mg/cm² and paint chip samples with results less than 5000 ppm may create hazardous conditions if subjected to poor and/or prohibited work practices. Refer to Work Activities on the following page.

OSHA LEAD REGULATION SUMMARY

The Federal Occupational Safety and Health Administration (OSHA) has enacted an interim lead standard, which was adopted by Cal/OSHA as 8 CCR 1532.1. The purpose of both standards is to protect construction workers from exposure to lead. OSHA is primarily concerned with activities that disturb lead-containing material. Lead was used in most paints until the mid 1950's and was banned in amounts in excess of 0.06% by weight in 1978 for most non-industrial paints by the Consumer Product Safety Commission (CPSC).

The new standard requires contractors and employers who perform activities that would disturb lead, must monitor their employees to determine whether they are being exposed in excess of the Action Level (AL) of 30 micrograms per cubic meter of air (ug/m³) over an eight-hour time weighted average (TWA) or the Permissible Exposure Limit (PEL) of 50 ug/m³ TWA. Monitoring is performed by personal exposure air sampling.

Even when concentrations are below the AL, an employer must provide employees with High Efficiency Particulate Air (HEPA) filtered vacuums, wetting

agents and hand-washing facilities. If the exposure exceeds the AL or the PEL, other procedures such as containing the area, decontamination facilities and medical monitoring are required.

OSHA has identified several activities that pose varying levels of potential lead exposure to laborers disturbing lead-containing paint. Estimated exposure levels of lead are founded on the activity itself, rather than the concentrations of lead present in paint. Therefore, as an example, paints that contain 0.5% versus 15% of lead by weight or 0.8 mg/cm² versus 3.5 mg/cm² of lead in paint could present the same levels of potential exposure to workers depending on the activities that cause the disturbance and the administrative and engineering controls that are followed.

The following is a summary of work activities that disturb paint, the expected exposures and the respiratory protection requirements as outlined in the OSHA standards:

Class I Activities:

Class I activities include: Manual demolition, manual scraping, manual sanding, heat gun application, general cleanup, power tool cleaning with dust collection systems and spray painting activities.

Potential Exposure: 50 ug/m³ to 500 ug/m³
Minimum Respiratory Protection: Half mask air purifying respirator equipped with HEPA filters having a protection factor of 10.

Class II Activities:

Class II activities include: Using lead-containing mortars, lead burning, lead riveting, rivet busting, power tool cleaning without dust collection systems, cleanup of dry expendable abrasives and abrasive blasting.

Potential Exposure: 500 ug/m³ to 2,500 ug/m³
Minimum Respiratory Protection: Full face powered air-purifying respirators equipped with HEPA filters having a protection Factor of 100.

Class III Activities:

Class III activities include: Abrasive blasting, welding, cutting and torch burning on steel structures.

Potential Exposure: Greater than 2,500 ug/m³.

Minimum Respiratory Protection: Full face supplied - air respirator operated in pressure demand mode or - the positive pressure mode.

DOSH 8 CCR 1532.1 requires that an initial exposure assessment be performed if workers will be performing any of the trigger tasks found in 1532.1. It should be noted that the California Department of Health Services (DHS) has issued emergency work procedures for lead paint materials that in the absence of any other procedures are recommendations.

The following recommendations are general site specific work practice specifications.

- You must use "containment" when you sand, scrape, or disturb any detectable level of lead in paint or surface coatings.
- Containment is required for abatement and/or any activity that or disturb any detectable level of lead in paint or surface coatings.
- You must be DHS-certified (workers, supervisors, monitors, and inspectors) if you are conducting abatement.
- You must follow an abatement plan.
- A DHS -certified supervisor, monitor, and/or project designer must design an abatement project.
- A clearance inspection by dust wipe sampling is required for abatement.

LEAD WASTE DISPOSAL

The visual determination indicated that all building components that tested positive were in intact to poor condition (minor cracking to flaking and peeling). As such, these components need to be considered a lead hazard if flaking paint is not stabilized. All small debris (paint chips, rags, filters, and components smaller than 2"x2") that may be generated during the paint stabilization process (paint preparation) should be considered Class I, lead hazardous waste. The debris generated from paint stabilization of LBP building components should be segregated from all other dust and debris. Building components, which tested positive, should be stabilized by a DHS-accredited Contractor.

Power washing may be conducted on the building. Run off water must be collected and analyzed by an accredited laboratory to meet the criteria established by the Clean Water Act, Resource Conservation and Recovery Act (RCRA 1972). Lead levels must not exceed 5mg/L.

CODES AND REGULATIONS - LEAD-BASED PAINT

Federal and state regulations, which govern lead-based, paint work or hauling and disposal of lead-based paint waste materials include but are not limited to the following:

FEDERAL

Housing and Urban Development (HUD) 1995 Guidelines For The Evaluation and Control of Lead-Based Paint in Housing

OSHA

Lead In Construction
29 CFR 1926.62

NESHAP

Emissions Standards
40 CFR 50.12

Lead-Based Paint Poisoning Prevention Act (LBPPPA), 1970.

Title 10 - Residential LBP Hazard Reduction Act, 1992, (amendment for LBPPPA, 1970)

Resource Conservation Recovery Act (RCRA)

STATE

Cal/OSHA

Lead In Construction
Title 8 CCR 1532.1

Department of Health Services (DHS)

Emergency Work Practice Regulations
Title 17 CCR, Division 1, Chp.

APPENDIX A
XRF - DATA RESULTS TABLE

Bldg.	Floor	Room	Result	Shot Sequence	Location	Wall	Description	XRF Result	AA Analysis in PPM
154	Base.		Negative	19063	Boiler/Tunnel	4	Iron Gate	-0.205	
154	Base.		Negative	19064	Boiler/Tunnel	2	Door	-0.364	
154	Base.		Negative	19065	Boiler/Tunnel	3	Door Frame	-0.046	
154	Base.		Negative	19066	Stairwell	1	Wall	-1.371	
154	Base.		XRF Positive	19067	Stairwell	1	Hand Rail	3.309	
154	Base.		Negative	19068	Stairwell	1	Door	-0.244	
154	Base.		Negative	19069	Stairwell	1	Door Frame	-0.214	
154	Base.		Negative	19070	Stairwell	1	Ceiling	-0.109	
154	Base.		Negative	19071	Stairwell	3	Wall	0.524	
154	Base.		XRF Positive	19072	Stairwell	3	Hand Rail	2.893	
154	Base.		Negative	19073	Stairwell	4	Door	0.071	
154	Base.		Negative	19074	Stairwell	4	Door Frame	0.217	
154	Base.		Negative	19075	Stairwell	3	Door	-0.741	
154	Base.		Negative	19076	Stairwell	3	Door Frame	0.401	
154	Base.	3	Negative	19084	Locker Room	2	Door	-1.26	
154	Base.	3	Negative	19085	Locker Room	2	Door Frame	0.02	
154	Base.	3	Negative	19086	Locker Room	2	Wall	-0.34	
154	0001		Negative	19089	Exterior	2	Wall	0.429	
154	0001		Negative	19090	Exterior	4	Fire Exit	-0.336	
154	0001		Negative	19091	Exterior	2	Door Frame	-0.199	
154	0001		Negative	19092	Exterior	2	Overhang	0.28	
154	0001		Inclusive	19092	Exterior	2	Fascia	0.975	
154	0001		Negative	19094	Exterior	2	Window Jamb	-0.191	
154	0001		Negative	19095	Exterior	2	Window Sill	0.121	
154	0001		Negative	19097	Exterior	2	Downspout	0.151	
154	0001		Negative	19098	Exterior	2	Downspout	-0.768	
154	0001		Negative	19099	Exterior	2	Door	-0.973	
154	0001		XRF Positive	19100	Exterior	2	Door Frame	2.576	
154	0001		XRF Positive	19101	Exterior	2	Fix.WindowPanel	1.407	
154	0001		XRF Positive	19102	Exterior	2	Window Sill	1.573	
154	0001		Negative	19103	Exterior	2	Conc. Column	0.05	
154	0001		Inclusive	19104	Exterior	1	Wall	0.98	
154	0001		Negative	19105	Exterior	1	Handrail	0.005	
154	0001		XRF Positive	19106	Exterior	1	Stair Riser	3.979	

Bldg.	Floor	Room	Result	Shot Sequence	Location	Wall	Description	XRF Result	AA Analysis in PPM
154	0001		Negative	19251	Exterior	1	Fire Exit	0.084	
154	0001		Negative	19252	Exterior	1	Door Frame	0.455	
154	0001		Negative	19253	Exterior	1	Door Landing	0.391	
154	0001		Negative	19254	Exterior	4	Wall	-0.151	
154	0001		Negative	19255	Exterior	4	Fire Exit	-0.409	
154	0001		Negative	19256	Exterior	4	Door Frame	0.694	
154	0001		Negative	19257	Exterior	4	Downspout	0.413	
154	0001		Negative	19258	Exterior	4	Overhang	-0.765	
154	0001		Negative	19259	Exterior	4	Fascia	0.36	
154	0001		Negative	19260	Exterior	4	Conc. Column	0.308	
154	0001		Negative	19261	Exterior	4	Window Jamb	-0.063	
154	0001		Negative	19262	Exterior	4	Window Sill	0.063	
154	0001		Negative	19263	Exterior	4	Window Sash	0.085	
154	0001		Negative	19264	Exterior	4	Double Doors	-0.14	
154	0001		Negative	19265	Exterior	4	Door Frame	0.115	
154	0001		Negative	19266	Exterior	3	Wall	0.032	
154	0001		Negative	19267	Exterior	3	Handrail	0.409	
154	0001		Negative	19268	Exterior	3	Stair Riser	-1.21	
154	0001		Negative	19269	Exterior	3	Fire Exit	-0.53	
154	0001		Negative	19270	Exterior	3	Door Frame	1.026	
154	0001		Negative	19271	Exterior	3	Door Landing	0.132	
154	0001		Negative	19272	Exterior	3	Ceiling	0.441	
154	0001		Negative	19273	Exterior	3	Fascia	0.538	
154	0001	101	Negative	19114	Common Area	1	Wall	0.171	
154	0001	101	Negative	19115	Common Area	1	Baseboard	-0.281	
154	0001	101	Negative	19116	Common Area	2	Wall	-0.333	
154	0001	101	Negative	19117	Common Area	2	Window Jamb	-0.623	
154	0001	101	Negative	19118	Common Area	2	Window Sash	-0.318	
154	0001	101	Negative	19119	Common Area	2	Radiator Cover	-0.606	
154	0001	101	Negative	19120	Common Area	2	Fire Riser/Valve	-1.049	
154	0001	101	Negative	19121	Common Area	2	Fire Exit	-0.518	
154	0001	101	Negative	19122	Common Area	3	Wall	-0.055	
154	0001	101	Negative	19123	Common Area	3	Door Frame	0.686	
154	0001	101	Negative	19124	Common Area	3	Conc. Column	-0.141	

Bldg.	Floor	Room	Result	Shot Sequence	Location	Wall	Description	XRF Result	AA Analysis in PPM
154	0001	101	Negative	19125	Common Area	3	Wall	0.091	
154	0001	101	Negative	19126	Common Area	4	Wall	0.026	
154	0001	101	Negative	19127	Common Area	4	Window Jamb	-0.393	
154	0001	101	Negative	19128	Common Area	4	Window Sash	0.127	
154	0001	101	Negative	19129	Hallway	2	Wall	0.181	
154	0001	101	Negative	19130	Hallway	2	Baseboard	-1.066	
154	0001	101	Negative	19131	Hallway	2	Door	-0.854	
154	0001	101	Negative	19132	Hallway	2	Door Frame	-0.669	
154	0001	101	Negative	19133	Hallway	2	Window Jamb	-0.083	
154	0001	101	Negative	19134	Hallway	2	Window Sash	0.118	
154	0001	101	Negative	19135	Hallway	2	Door	-0.207	
154	0001	101	Negative	19136	Hallway	2	Door Frame	-0.505	
154	0001	101	Negative	19137	Common Area	4	Wall	-0.118	
154	0001	101	Negative	19138	Common Area	4	Window Jamb	-0.133	
154	0001	101	Negative	19139	Common Area	4	Window Sash	0.131	
154	0001	101	Negative	19140	Hallway	4	Wall	-0.831	
154	0001	101	Negative	19141	Hallway	4	Door	0.105	
154	0001	101	Negative	19142	Hallway	4	Door Frame	0.072	
154	0001	101	Negative	19143	Common Area	3	Wall	0.992	
154	0001	101	Negative	19144	Common Area	1	Wall	-0.123	
154	0001	101	Negative	19145	Hallway	2	Water Fount.	-0.892	
154	0001	101	Negative	19146	Hallway	2	Door	-0.435	
154	0001	101	Negative	19147	Hallway	2	Door Frame	0.101	
154	0001	101	Negative	19148	Hallway	2	Double Doors	0.046	
154	0001	101	Negative	19149	Hallway	2	Door Frame	0.828	
154	0001	101	Negative	19150	Entry Way	1	Wall	-1.142	
154	0001	101	Negative	19151	Entry Way	1	Radiator Cover	0.226	
154	0001	101	Negative	19152	Entry Way	1	Baseboard	-0.066	
154	0001	101	Negative	19153	Entry Way	4	Double Doors	-1.024	
154	0001	101	Negative	19154	Entry Way	4	Door Frame	0.696	
154	0001	101	Negative	19155	Entry Way	2	Stair Riser	0.212	
154	0001	101	Negative	19156	Entry Way	4	Window Jamb	-0.311	
154	0001	101	Negative	19157	Entry Way	4	Window Sash	0.231	
154	0001	101	Negative	19158	Hallway	1	Soffit	-1.948	

Bldg.	Floor	Room	Result	Shot Sequence	Location	Wall	Description	XRF Result	AA Analysis in PPM
154	0001	101	Negative	19159	Hallway	4	Door	-0.076	
154	0001	101	Negative	19160	Hallway	4	Door Frame	-0.069	
154	0001	101	Negative	19161	Hallway	4	Wall	0.288	
154	0001	101	Negative	19162	Hallway	1	Wall	0.19	
154	0001	101	Negative	19163	Hallway	1	Wall	0.687	
154	0001	101	Negative	19164	Hallway	4	Fire Exit	0.15	
154	0001	101	Negative	19165	Hallway	4	Door Frame	-0.265	
154	0001	101	Negative	19166	Mens Bathroom	1	Wall	-0.465	
154	0001	101	Negative	19167	Mens Bathroom	1	Ceiling	0.588	
154	0001	101	Negative	19168	Mens Bathroom	1	Sink/Cabinet	-0.943	
154	0001	101	Negative	19169	Mens Bathroom	2	Tile Wall	-0.115	
154	0001	101	Negative	19170	Mens Bathroom	2	Floor	0.131	
154	0001	101	Negative	19171	Mens Bathroom	2	Window Jamb	-0.268	
154	0001	101	Negative	19172	Mens Bathroom	2	Window Sash	-0.489	
154	0001	101	Negative	19173	Mens Bathroom	3	Stall Door	-0.746	
154	0001	101	Negative	19174	Mens Bathroom	3	Tile Wall	-0.087	
154	0001	101	Negative	19175	Mens Bathroom	3	Wall	-0.478	
154	0001	101	Negative	19176	Mens Bathroom	4	Door	-0.152	
154	0001	101	Negative	19177	Mens Bathroom	4	Door Frame	0.31	
154	0001	121	Negative	19180	Stairwell	1	Wall	-1.026	
154	0001	121	Negative	19181	Stairwell	1	Handrail	-0.072	
154	0001	121	Negative	19182	Stairwell	4	Double Doors	0.236	
154	0001	121	Negative	19183	Stairwell	4	Door Frame	0.163	
154	0001	121	Negative	19184	Stairwell	4	Wall	0.567	
154	0001	121	Negative	19185	Stairwell	4	Baseboard	0.818	
154	0001	121	Negative	19186	Stairwell	3	Wall	0.851	
154	0001	121	Negative	19187	Stairwell	3	Radiator Cover	-0.366	
154	0001	121	Negative	19188	Stairwell	2	Fire Exit	-0.773	
154	0001	121	XRF Positive	19189	Stairwell	2	Door Frame	2.203	
154	0001	121	Negative	19190	Stairwell	1	Door	-0.609	
154	0001	121	Negative	19191	Stairwell	1	Door Frame	0.509	
154	0001	121	Negative	19192	Stairwell	1	Ceiling	0.164	
154	0001	121	Negative	19193	Stairwell	2	Fix.Win. Panel	0.074	
154	0001	121	Negative	19194	Stairwell	1	Concrete Cap	0.115	

Bldg.	Floor	Room	Result	Shot Sequence	Location	Wall	Description	XRF Result	AA Analysis in PPM
154	0002	201	Negative	19197	Hallway	3	Fire Exit	0.091	
154	0002	201	Negative	19198	Hallway	3	Door Frame	0.712	
154	0002	201	Negative	19199	Hallway	3	Conc. Column	0.199	
154	0002	201	Negative	19200	Hallway	3	Chair Rail	-0.177	
154	0002	201	Negative	19201	Common Area	2	Radiator Cover	-0.544	
154	0002	201	Negative	19202	Common Area	2	Window Jamb	0.219	
154	0002	201	Negative	19203	Common Area	2	Window Sash	0.242	
154	0002	201	Negative	19204	Common Area	1	Wall	-1.233	
154	0002	201	Negative	19205	Common Area	1	Baseboard	0.292	
154	0002	201	Negative	19206	Common Area	3	Wall	-0.085	
154	0002	201	Negative	19207	Hallway	1	Door	0.136	
154	0002	201	Negative	19208	Hallway	4	Door Frame	-0.065	
154	0002	201	Negative	19209	Hallway	4	Baseboard	-0.15	
154	0002	201	Negative	19210	Hallway	4	Wall	-0.102	
154	0002	201	Negative	19211	Hallway	4	Door	-0.415	
154	0002	201	Negative	19212	Hallway	4	Door Frame	-0.65	
154	0002	201	Negative	19213	Hallway	2	Wall	-0.193	
154	0002	201	Negative	19214	Hallway	2	Door	0.015	
154	0002	201	Negative	19215	Hallway	2	Door Frame	0.088	
154	0002	201	Negative	19216	Hallway	4	Door	-0.982	
154	0002	201	Negative	19217	Hallway	4	Door Frame	0.112	
154	0002	201	Negative	19218	Common Area	1	Wall	-0.092	
154	0002	201	Negative	19219	Common Area	2	Wall	-0.014	
154	0002	201	Negative	19220	Common Area	2	Window Jamb	0.183	
154	0002	201	Negative	19221	Common Area	2	Window Sash	0.35	
154	0002	201	Negative	19222	Common Area	2	Radiator Cover	0.234	
154	0002	201	Negative	19223	Common Area	3	Wall	0.197	
154	0002	201	Negative	19224	Common Area	4	Window Jamb	-0.787	
154	0002	201	Negative	19225	Common Area	4	Window Sash	0.411	
154	0002	201	Negative	19226	Common Area	4	Wall	-0.83	
154	0002	201	Negative	19227	Common Area	2	Chair Rail	-1.148	
154	0002	201	Negative	19228	Common Area	2	Door Frame	0.067	
154	0002	201	Negative	19229	Common Area	1	Baseboard	0.506	
154	0002	201	Negative	19230	Hallway	2	Wall	0.118	

Bldg.	Floor	Room	Result	Shot Sequence	Location	Wall	Description	XRF Result	AA Analysis in PPM
154	0002	201	Negative	19231	Hallway	2	Water Fount.	-0.031	
154	0002	201	Negative	19232	Hallway	2	Double Doors	0.026	
154	0002	201	Negative	19233	Hallway	2	Door Frame	0.13	
154	0002	201	Negative	19234	Hallway	4	Door	-0.049	
154	0002	201	Negative	19235	Hallway	4	Door Frame	0.172	
154	0002	207	Negative	19238	Conference Rm.	1	Wall	0.148	
154	0002	207	Negative	19239	Conference Rm.	1	Baseboard	0.327	
154	0002	207	Negative	19240	Conference Rm.	2	Wall	-0.268	
154	0002	207	Negative	19241	Conference Rm.	2	Door	-0.455	
154	0002	207	Negative	19242	Conference Rm.	2	Door Frame	0.18	
154	0002	207	Negative	19243	Conference Rm.	3	Wall	-0.159	
154	0002	207	Negative	19244	Conference Rm.	4	Wall	-0.089	
154	0002	207	Negative	19245	Conference Rm.	4	Radiator Cover	-0.3	
154	0002	207	Negative	19246	Conference Rm.	4	Window Jamb	-0.804	
154	0002	207	Negative	19247	Conference Rm.	4	Window Sash	0.202	
154	0002	207	Negative	19248	Conference Rm.	1	Fire Exit	-0.28	
154	0002	207	Negative	19249	Conference Rm.	1	Door Frame	0.172	
154	0002	207	Negative	19250	Conference Rm.	1	Conc. Column	0.376	

APPENDIX B
CERTIFICATION(S)

State of California Department of Health Services

Lead-Related	Certificate	Expiration Date
Construction Certificate	Inspector/Assessor	11/03/2002



Richard E. MacFarlane ID # 2241