

3732 CHARTER PARK DRIVE
SUITE A
SAN JOSE, CA 95136
TEL: 408.448.7594
TOLL FREE: 800.988.7424
FAX: 408.448.3849



LEAD BASED PAINT SURVEY REPORT

CANG VEHICLE MAINTENANCE BUILDING (ID: Building 146)

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
August 31, 2001
Project Number: E01-448w-L-SU

Prepared By:

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

Richard E. MacFarlane
DHS Inspector/Assessor
DHS# I-2241

Reviewed By:

A handwritten signature in black ink, appearing to read 'Bryan K. Buller', written over a horizontal line.

Bryan K. Buller
COO, UPIN, Inc
14946

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 CANG Vehicle Maintenance Building, Building 146 located at Moffett Field, California.

In order to determine if lead based paint was present, five (5) paint chip samples were collected and 279 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: Rollup Doors, Rollup Door Frames, Doors, Door Casings, Window Wall Units, Red Curb, Kick Panels, Skylights.

Interior: Room 101 – Double Doors, Building Supports, Rollup Doors, Rollup Door Frames; Room 130 – Window Wall Units, Support Posts, Door Casing, Kick Panel, Building Support, Truss; High Bay (104) – Rollup Doors, Rollup Door Frames, Double Doors; High Bay (105) - Rollup Door, Rollup Door Frame; Room 107 – Building Support, Rollup Door, Rollup Door Frame, Wood Door, Door Casing, Parking Ballard; High Bay (114) – Door; High Bay (128) – Support Post, Kick Panel, Window Wall Unit; High Bay (129) – Window Wall Nut; Hallway (131) Door Casing, Window Wall Unit; High Bay (134) – Window Wall Unit.

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 May 1, 2001, as referenced by BENCHMARK'S proposal E01-448.

BACKGROUND

The non-com vehicle maintenance building was built in 1952. This is a two-story building approximately 32,865 square footage in size. The construction is steel frame over a concrete foundation. It has a flat composite roof with an exterior constructed of yellow corrugated metal and transite.

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 May 1, 2001, as referenced by Benchmark's Proposal E01-488.

The survey was conducted on August 31, 2001. 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 146.

A total of 279 XRF assays and five (5) paint chip samples were 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 CANG Vehicle Maintenance Building (ID: Building 146). The survey consisted of testing for lead-based 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 |

Paint chip samples were collected from five (5) building components to provide conclusions that would be in compliance with DOSH 8 CCR 1532.1.

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.

PAINT CHIP SAMPLE COLLECTION

A total of five (5) paint chip samples were collected in accordance with the HUD Evaluation and Control of Lead-Based Paint Hazards in Housing, Paint Chip Sampling. A two-inch by two-inch area was measured and delineated. The paint chip sample was collected with the use of a sharp stainless steel paint scraper. Paint was scraped directly off the substrate. The goal is remove all layers of paint equally, but none of the substrate. Paint chip samples collected in this fashion are reported in PPM or % by weight .

LEAD

Laboratory analysis was performed by Schneider Laboratories, Inc. Their AIHA Accredited Laboratory Identification Number is AIHA/ELLAP #100527, and CA ELAP #2078. Samples are analyzed by Flame Atomic Absorption in accordance with EPA's "Standard Operating Procedures for Lead in Paint by Hotplate or Microwave based Acid digestions and Atomic Absorption or Inductively Coupled Plasma Emission Spectrometry" (1991), EPA/600/8-91/213, NTIS Document No. PB92-114172. Samples are prepared by hotplate digestion with nitric acid and hydrogen peroxide, and analyzed by Flame AA.

LABORATORY QUALITY CONTROL PROGRAM

Schneider Laboratories, Inc. maintains an in-house quality control program. This program involves blind reanalysis of ten percent of all samples, precision and accuracy controls, and use of standard bulk reference materials.

FINDINGS AND OBSERVATIONS

LEAD

A total of 279 assays were taken. The results indicated that 68 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: Rollup Doors, Rollup Door Frames, Doors, Door Casings, Window Wall Units, Red Curb, Kick Panels, Skylights.

Interior: Room 101 – Double Doors, Building Supports, Rollup Doors, Rollup Door Frames; Room 130 – Window Wall Units, Support Posts, Door Casing, Kick Panel, Building Support, Truss; High Bay (104) – Rollup Doors, Rollup Door Frames, Double Doors; High Bay (105) - Rollup Door, Rollup Door Frame; Room 107 – Building Support, Rollup Door, Rollup Door Frame, Wood Door, Door Casing, Parking Ballard; High Bay (114) – Door; High Bay (128) – Support Post, Kick Panel, Window Wall Unit; High Bay (129) – Window Wall Nut; Hallway (131) Door Casing, Window Wall Unit; High Bay (134) – Window Wall Unit.

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 II 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.

RESULTS OF THE PAINT CHIP SAMPLES COLLECTED

Paint Chip Samples NASA Ames-PAI Corporation August 31, 2001

| Sample Number | Component | Location | PPM | % By Weight |
|---------------|--------------|-------------------------------------|-------|-------------|
| 01-5123-146-1 | Support Beam | Room 104 (South Work bay) | 720 | 0.072 |
| 01-5124-146-2 | Wall | Room 108, Classroom | 40 | 0.004 |
| 01-5125-146-3 | Wall | Room 105, West Vehicle Bay | 94480 | 9.448 |
| 01-5126-146-4 | | Room 130, Concrete Foundation North | 230 | 0.023 |
| 01-5127-146-5 | Wall | Room 130, Radiator, North Wall | 520 | 0.052 |

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 |
|-------|-------|------|--------------|---------------|----------|------|------------------|------------|--------------------|
| 146 | 0001 | | Negative | 33390 | Exterior | 3 | Siding | -0.194 | |
| 146 | 0001 | | Negative | 33391 | Exterior | 3 | Door | -0.742 | |
| 146 | 0001 | | Negative | 33392 | Exterior | 3 | Door Casing | -0.214 | |
| 146 | 0001 | | Negative | 33393 | Exterior | 3 | Stair support | 0.409 | |
| 146 | 0001 | | Negative | 33394 | Exterior | 3 | Stair Handrail | -0.362 | |
| 146 | 0001 | | Negative | 33395 | Exterior | 3 | Stair Stringer | 0.12 | |
| 146 | 0001 | | Negative | 33396 | Exterior | 3 | Stair Tread | -0.177 | |
| 146 | 0001 | | XRF Positive | 33397 | Exterior | 3 | Rollup Door | 2.871 | |
| 146 | 0001 | | XRF Positive | 33398 | Exterior | 3 | RollupDoorFrame | 7.897 | |
| 146 | 0001 | | Negative | 33399 | Exterior | 3 | Hatch Door | -0.048 | |
| 146 | 0001 | | Negative | 33400 | Exterior | 3 | Double Doors | 0.219 | |
| 146 | 0001 | | Negative | 33401 | Exterior | 3 | Door Casing | 0.426 | |
| 146 | 0001 | | Negative | 33402 | Exterior | 3 | Door | 0.415 | |
| 146 | 0001 | | Negative | 33403 | Exterior | 3 | Door Casing | 0.187 | |
| 146 | 0001 | | Negative | 33404 | Exterior | 3 | Parking Ballard | 0.463 | |
| 146 | 0001 | | Negative | 33405 | Exterior | 4 | Siding | -0.091 | |
| 146 | 0001 | | XRF Positive | 33406 | Exterior | 4 | Rollup Door | 2.402 | |
| 146 | 0001 | | Negative | 33407 | Exterior | 4 | RollupDoorFrame | 0.334 | |
| 146 | 0001 | | XRF Positive | 33408 | Exterior | 4 | RollupDoorFrame | 1.33 | |
| 146 | 0001 | | Negative | 33409 | Exterior | 4 | Ladder | -0.442 | |
| 146 | 0001 | | Negative | 33410 | Exterior | 4 | Vent | -0.118 | |
| 146 | 0001 | | Negative | 33411 | Exterior | 4 | Hatch Door | 0.321 | |
| 146 | 0001 | | Negative | 33412 | Exterior | 3 | Door Casing | -0.677 | |
| 146 | 0001 | | XRF Positive | 33413 | Exterior | 1 | Rollup Door | 2.65 | |
| 146 | 0001 | | Negative | 33415 | Exterior | 1 | Siding | 0.051 | |
| 146 | 0001 | | XRF Positive | 33416 | Exterior | 1 | Door | 1.592 | |
| 146 | 0001 | | XRF Positive | 33417 | Exterior | 1 | Door Casing | 1.878 | |
| 146 | 0001 | | Negative | 33418 | Exterior | 1 | Awning Support | 0.141 | |
| 146 | 0001 | | Negative | 33419 | Exterior | 1 | Awning Support | -0.119 | |
| 146 | 0001 | | XRF Positive | 33420 | Exterior | 1 | Window Wall Unit | 13.144 | |
| 146 | 0001 | | Negative | 33421 | Exterior | 1 | Door | -0.715 | |
| 146 | 0001 | | XRF Positive | 33422 | Exterior | 1 | Door Casing | 15.96 | |
| 146 | 0001 | | Negative | 33423 | Exterior | 1 | Curb (Red) | 0.753 | |
| 146 | 0001 | | XRF Positive | 33424 | Exterior | 1 | Curb (Red) | 1.741 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|----------|------|------------------|------------|--------------------|
| 146 | 0001 | | XRF Positive | 33425 | Exterior | 1 | Kick Panel | 4.699 | |
| 146 | 0001 | | Negative | 33426 | Exterior | 1 | Double Doors | 0.687 | |
| 146 | 0001 | | XRF Positive | 33427 | Exterior | 1 | Skylight | 10.384 | |
| 146 | 0001 | | XRF Positive | 33428 | Exterior | 2 | Window Wall Unit | 11.75 | |
| 146 | 0001 | | Negative | 33429 | Exterior | 2 | Awning | -0.528 | |
| 146 | 0001 | | Negative | 33430 | Exterior | 2 | Awning Support | -0.08 | |
| 146 | 0001 | | XRF Positive | 33431 | Exterior | 2 | Skylight | 5.244 | |
| 146 | 0001 | | Negative | 33432 | Exterior | 2 | Double Doors | 0.09 | |
| 146 | 0001 | | XRF Positive | 33433 | Exterior | 2 | Door Casing | 9.706 | |
| 146 | 0001 | | Negative | 33434 | Exterior | 2 | Roof Flashing | 0.591 | |
| 146 | 0001 | | Negative | 33435 | Exterior | 2 | Overhang | 0.196 | |
| 146 | 0001 | | Negative | 33436 | Exterior | 2 | Siding | -0.071 | |
| 146 | 0001 | | Negative | 33437 | Exterior | 2 | Siding | 0.034 | |
| 146 | 0001 | | XRF Positive | 33438 | Exterior | 2 | Rollup Door | 2.939 | |
| 146 | 0001 | | XRF Positive | 33439 | Exterior | 2 | RollupDoorFrame | 5.88 | |
| 146 | 0001 | | Negative | 33440 | Exterior | 2 | Downspout | -0.255 | |
| 146 | 0001 | | Negative | 33441 | Exterior | 2 | Downspout | -0.716 | |
| 146 | 0001 | | Negative | 33442 | Exterior | 2 | Door | 0.42 | |
| 146 | 0001 | | Negative | 33443 | Exterior | 2 | Door Casing | 0.308 | |
| 146 | 0001 | 101 | Negative | 33446 | Room 101 | 2 | Wall | -0.355 | |
| 146 | 0001 | 101 | XRF Positive | 33447 | Room 101 | 2 | Double Doors | 5.747 | |
| 146 | 0001 | 101 | Negative | 33448 | Room 101 | 2 | Door Casing | 0.064 | |
| 146 | 0001 | 101 | XRF Positive | 33449 | Room 101 | 2 | Building Support | 10.809 | |
| 146 | 0001 | 101 | XRF Positive | 33450 | Room 101 | 2 | Building Support | 5.605 | |
| 146 | 0001 | 101 | XRF Positive | 33451 | Room 101 | 2 | Double Doors | 5.202 | |
| 146 | 0001 | 101 | Negative | 33452 | Room 101 | 2 | Door Casing | 0.088 | |
| 146 | 0001 | 101 | XRF Positive | 33453 | Room 101 | 3 | RollupDoorFrame | 9.784 | |
| 146 | 0001 | 101 | XRF Positive | 33454 | Room 101 | 3 | Rollup Door | 1.738 | |
| 146 | 0001 | 101 | Negative | 33455 | Room 101 | 4 | Wall | 0.036 | |
| 146 | 0001 | 101 | Negative | 33456 | Room 101 | 4 | Door | -0.908 | |
| 146 | 0001 | 101 | Negative | 33457 | Room 101 | 4 | Door | -0.143 | |
| 146 | 0001 | 101 | Negative | 33458 | Room 101 | 4 | Door Casing | 0.338 | |
| 146 | 0001 | 101 | Negative | 33459 | Room 101 | 4 | Door | -0.198 | |
| 146 | 0001 | 101 | Negative | 33460 | Room 101 | 4 | Door Casing | -0.087 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|----------|------|------------------|------------|--------------------|
| 146 | 0001 | 101 | Negative | 33461 | Room 101 | 4 | Double Doors | -0.281 | |
| 146 | 0001 | 101 | Negative | 33462 | Room 101 | 4 | Door Casing | 0.245 | |
| 146 | 0001 | 101 | Negative | 33463 | Room 101 | 4 | Safety Bumper | 0.276 | |
| 146 | 0001 | 101 | Negative | 33464 | Room 101 | 4 | Wall | 0.247 | |
| 146 | 0001 | 101 | Negative | 33465 | Room 101 | 4 | Double Doors | -0.148 | |
| 146 | 0001 | 101 | Negative | 33466 | Room 101 | 4 | Door Casing | 0.282 | |
| 146 | 0001 | 101 | Negative | 33467 | Room 101 | 4 | Siding | 0.036 | |
| 146 | 0001 | 101 | XRF Positive | 33468 | Room 101 | 4 | Building Support | 5.106 | |
| 146 | 0001 | 101 | XRF Positive | 33469 | Room 101 | 4 | RollupDoorFrame | 1.368 | |
| 146 | 0001 | 101 | Negative | 33470 | Room 101 | 4 | Rollup Door | 0.031 | |
| 146 | 0001 | 101 | XRF Positive | 33471 | Room 101 | 4 | Rollup Door | 7.083 | |
| 146 | 0001 | 101 | Negative | 33472 | Room 101 | 1 | Wall | -0.685 | |
| 146 | 0001 | 101 | Negative | 33473 | Room 101 | 1 | Fence Support | -1.541 | |
| 146 | 0001 | 101 | Negative | 33474 | Room 101 | 1 | Fence Support | -0.145 | |
| 146 | 0001 | 101 | Negative | 33475 | Room 101 | 1 | Soffit | -0.489 | |
| 146 | 0001 | 101 | Negative | 33476 | Room 101 | 1 | Door Support | 0.125 | |
| 146 | 0001 | 101 | Negative | 33477 | Room 101 | 1 | Fence | -0.481 | |
| 146 | 0001 | 101 | XRF Positive | 33478 | Room 101 | 2 | Double Doors | 3.691 | |
| 146 | 0001 | 101 | Negative | 33479 | Room 101 | 2 | Door Casing | 0.09 | |
| 146 | 0001 | 101 | XRF Positive | 33480 | Room 101 | 2 | Double Doors | 6.531 | |
| 146 | 0001 | 101 | Negative | 33481 | Room 101 | 2 | Door Casing | 0.152 | |
| 146 | 0001 | 101 | XRF Positive | 33483 | Room 101 | 4 | Door | 3.478 | |
| 146 | 0001 | 101 | Negative | 33484 | Room 101 | 4 | Door Casing | 0.171 | |
| 146 | 0001 | 101 | Negative | 33485 | Room 101 | 3 | Wall | 0.195 | |
| 146 | 0001 | 101 | Negative | 33486 | Room 101 | 4 | Wall | -1.351 | |
| 146 | 0001 | 101 | Negative | 33487 | Room 101 | 4 | Wall | -1.21 | |
| 146 | 0001 | 101 | Negative | 33488 | Room 101 | 4 | Hatch Door | 0.091 | |
| 146 | 0001 | 101 | Negative | 33489 | Room 101 | 4 | Siding | -0.705 | |
| 146 | 0001 | 101 | XRF Positive | 33490 | Room 101 | 4 | Building Support | 3.023 | |
| 146 | 0001 | 101 | Negative | 33491 | Room 101 | 1 | HVAC Duct | -0.497 | |
| 146 | 0001 | 101 | Negative | 33492 | Room 101 | 1 | Siding | -0.002 | |
| 146 | 0001 | 101 | Negative | 33493 | Room 101 | 1 | Building Support | 0.772 | |
| 146 | 0001 | 101 | XRF Positive | 33494 | Room 101 | 1 | Building Support | 2.632 | |
| 146 | 0001 | 101 | XRF Positive | 33495 | Room 101 | 1 | RollupDoorFrame | 3.26 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|----------|------|------------------|------------|--------------------|
| 146 | 0001 | 101 | XRF Positive | 33496 | Room 101 | 1 | Rollup Door | 3.471 | |
| 146 | 0001 | 101 | Negative | 33497 | Room 101 | 1 | Door | -0.142 | |
| 146 | 0001 | 101 | Negative | 33498 | Room 101 | 1 | Door Casing | -0.12 | |
| 146 | 0001 | 101 | Negative | 33499 | Room 101 | 1 | Door | -0.136 | |
| 146 | 0001 | 101 | Negative | 33500 | Room 101 | 1 | Door Casing | 0.407 | |
| 146 | 0001 | 101 | XRF Positive | 33501 | Room 101 | 1 | Building Support | 2.238 | |
| 146 | 0001 | 101 | Negative | 33502 | Room 101 | 1 | Wall | -0.088 | |
| 146 | 0001 | 101 | Negative | 33503 | Room 101 | 2 | Double Doors | -0.592 | |
| 146 | 0001 | 101 | Negative | 33504 | Room 101 | 2 | Door Casing | 0.193 | |
| 146 | 0001 | 101 | XRF Positive | 33505 | Room 101 | 1 | Window Jamb | 3.495 | |
| 146 | 0001 | 101 | Negative | 33506 | Room 101 | 2 | Siding | -0.878 | |
| 146 | 0001 | 101 | XRF Positive | 33507 | Room 101 | 2 | Building Support | 9.216 | |
| 146 | 0001 | 130 | Negative | 33508 | Room 130 | 1 | Floor | 0.569 | |
| 146 | 0001 | 130 | XRF Positive | 33509 | Room 130 | 1 | Window Wall Unit | 6.388 | |
| 146 | 0001 | 130 | XRF Positive | 33510 | Room 130 | 1 | Support Post | 7.532 | |
| 146 | 0001 | 130 | Negative | 33511 | Room 130 | 1 | Foundation | 0.303 | |
| 146 | 0001 | 130 | Negative | 33512 | Room 130 | 1 | Baseboard heat | -0.055 | 520 |
| 146 | 0001 | 130 | Negative | 33513 | Room 130 | 1 | Door | -0.092 | |
| 146 | 0001 | 130 | XRF Positive | 33514 | Room 130 | 1 | Door Casing | 4.357 | |
| 146 | 0001 | 130 | XRF Positive | 33515 | Room 130 | 1 | Kick Panel | 1.708 | |
| 146 | 0001 | 130 | Negative | 33516 | Room 130 | 1 | Double Doors | 0.313 | |
| 146 | 0001 | 130 | XRF Positive | 33517 | Room 130 | 1 | Door Casing | 5.922 | |
| 146 | 0001 | 130 | Negative | 33518 | Room 130 | 2 | Double Doors | -0.031 | |
| 146 | 0001 | 130 | XRF Positive | 33519 | Room 130 | 2 | Door Casing | 3.89 | |
| 146 | 0001 | 130 | XRF Positive | 33520 | Room 130 | 2 | Support Post | 13.839 | |
| 146 | 0001 | 130 | Negative | 33521 | Room 130 | 2 | Foundation | 0.354 | 230 |
| 146 | 0001 | 130 | Negative | 33522 | Room 130 | 2 | Safety Rail | -0.449 | |
| 146 | 0001 | 130 | Negative | 33523 | Room 130 | 3 | Wall | -0.33 | |
| 146 | 0001 | 130 | Negative | 33524 | Room 130 | 3 | Door | -0.05 | |
| 146 | 0001 | 130 | Negative | 33525 | Room 130 | 3 | Door Casing | -0.446 | |
| 146 | 0001 | 130 | Negative | 33526 | Room 130 | 4 | Wall | -0.167 | |
| 146 | 0001 | 130 | Negative | 33527 | Room 130 | 4 | Door | 0.175 | |
| 146 | 0001 | 130 | Negative | 33528 | Room 130 | 4 | Door Casing | -0.233 | |
| 146 | 0001 | 130 | XRF Positive | 33529 | Room 130 | 1 | Building Support | 7.742 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|----------|------|------------------|------------|--------------------|
| 146 | 0001 | 130 | XRF Positive | 33530 | Room 130 | 1 | Truss | 5.44 | |
| 146 | 0001 | 130 | Negative | 33531 | Room 130 | 1 | Deck Support | -0.286 | |
| 146 | 0001 | 130 | Negative | 33532 | Room 130 | 1 | Roof Deck | 0.292 | |
| 146 | 0001 | 104 | Negative | 33535 | High Bay | 2 | Garage Trim | -0.355 | |
| 146 | 0001 | 104 | Negative | 33536 | High Bay | 2 | Double Doors | 0.083 | 720 |
| 146 | 0001 | 104 | Negative | 33537 | High Bay | 2 | Door Casing | 0.195 | |
| 146 | 0001 | 104 | Negative | 33538 | High Bay | 4 | Wall | -0.275 | |
| 146 | 0001 | 104 | Negative | 33539 | High Bay | 1 | Wall | -0.919 | |
| 146 | 0001 | 104 | Negative | 33540 | High Bay | 2 | Wall | 0.019 | |
| 146 | 0001 | 104 | XRF Positive | 33541 | High Bay | 2 | Rollup Door | 1.936 | |
| 146 | 0001 | 104 | XRF Positive | 33542 | High Bay | 2 | RollupDoorFrame | 2.548 | |
| 146 | 0001 | 104 | XRF Positive | 33543 | High Bay | 4 | Double Doors | 8.677 | |
| 146 | 0001 | 104 | Negative | 33544 | High Bay | 4 | Door Casing | 0.572 | |
| 146 | 0001 | 104 | XRF Positive | 33545 | High Bay | 4 | Double Doors | 7.501 | |
| 146 | 0001 | 104 | Negative | 33546 | High Bay | 4 | Door Casing | 0.037 | |
| 146 | 0001 | 105 | XRF Positive | 33549 | High Bay | 4 | RollupDoorFrame | 2.678 | 94480 |
| 146 | 0001 | 105 | XRF Positive | 33550 | High Bay | 4 | Rollup Door | 2.455 | |
| 146 | 0001 | 105 | Negative | 33551 | High Bay | 1 | Garage Trim | 0.103 | |
| 146 | 0001 | 105 | Negative | 33552 | High Bay | 3 | Garage Trim | -0.573 | |
| 146 | 0001 | 105 | Negative | 33553 | High Bay | 2 | Double Doors | -0.267 | |
| 146 | 0001 | 105 | Negative | 33554 | High Bay | 2 | Door Casing | 0.252 | |
| 146 | 0001 | 107 | Negative | 33557 | Room 107 | 1 | Wall | 0.134 | 40 |
| 146 | 0001 | 107 | Negative | 33558 | Room 107 | 2 | Wall | 0.209 | |
| 146 | 0001 | 107 | Negative | 33559 | Room 107 | 2 | Door | 0.133 | |
| 146 | 0001 | 107 | Negative | 33560 | Room 107 | 2 | Door Casing | -0.219 | |
| 146 | 0001 | 107 | Negative | 33561 | Room 107 | 2 | Wall Support | -0.16 | |
| 146 | 0001 | 107 | XRF Positive | 33562 | Room 107 | 2 | Building Support | 6.395 | |
| 146 | 0001 | 107 | Negative | 33563 | Room 107 | 2 | Stair Tread | -0.065 | |
| 146 | 0001 | 107 | Negative | 33564 | Room 107 | 1 | Floor | 0.307 | |
| 146 | 0001 | 107 | Negative | 33565 | Room 107 | 2 | Stair Stringer | 0.201 | |
| 146 | 0001 | 107 | Negative | 33566 | Room 107 | 2 | Stair Handrail | 0.341 | |
| 146 | 0001 | 107 | Negative | 33567 | Room 107 | 2 | Stair Support | -0.004 | |
| 146 | 0001 | 107 | XRF Positive | 33568 | Room 107 | 3 | Rollup Door | 3.142 | |
| 146 | 0001 | 107 | XRF Positive | 33569 | Room 107 | 3 | RollupDoorFrame | 3.445 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|---------------|------|------------------|------------|--------------------|
| 146 | 0001 | 107 | XRF Positive | 33570 | Room 107 | 3 | Building Support | 4.735 | |
| 146 | 0001 | 107 | Negative | 33571 | Room 107 | 4 | Wall | -0.486 | |
| 146 | 0001 | 107 | Negative | 33572 | Room 107 | 1 | Vehicle lift | -0.555 | |
| 146 | 0001 | 107 | XRF Positive | 33573 | Room 107 | 4 | Door | 5.814 | |
| 146 | 0001 | 107 | XRF Positive | 33574 | Room 107 | 4 | Door Casing | 2.289 | |
| 146 | 0001 | 107 | Negative | 33575 | Room 107 | 4 | Door Casing | 0.275 | |
| 146 | 0001 | 107 | XRF Positive | 33576 | Room 107 | 1 | Parking Ballard | 5.846 | |
| 146 | 0001 | 113 | Negative | 33579 | High Bay | 1 | Wall | -0.006 | |
| 146 | 0001 | 113 | Negative | 33580 | High Bay | 1 | Building Support | -0.776 | |
| 146 | 0001 | 113 | Negative | 33581 | High Bay | 2 | Wall | -0.163 | |
| 146 | 0001 | 113 | Negative | 33582 | High Bay | 3 | Door Casing | 0.061 | |
| 146 | 0001 | 113 | Negative | 33583 | High Bay | 3 | Door | -0.058 | |
| 146 | 0001 | 113 | Negative | 33584 | High Bay | 1 | Floor | 0.091 | |
| 146 | 0001 | 114 | Negative | 33587 | High Bay | 1 | Wall | -0.219 | |
| 146 | 0001 | 114 | Negative | 33588 | High Bay | 2 | Wall | 0.133 | |
| 146 | 0001 | 114 | Negative | 33589 | High Bay | 2 | Wall | -0.163 | |
| 146 | 0001 | 114 | Negative | 33590 | High Bay | 3 | Wall | 0.202 | |
| 146 | 0001 | 114 | Negative | 33591 | High Bay | 4 | Wall | 0 | |
| 146 | 0001 | 114 | XRF Positive | 33592 | High Bay | 4 | Door | 6.462 | |
| 146 | 0001 | 114 | Negative | 33593 | High Bay | 4 | Door Casing | 0.544 | |
| 146 | 0001 | 114 | Negative | 33594 | High Bay | 1 | Door | -0.326 | |
| 146 | 0001 | 114 | Negative | 33595 | High Bay | 1 | Door Casing | 0.48 | |
| 146 | 0001 | 115 | Negative | 33598 | Mens Bathroom | 1 | Wall | 0.177 | |
| 146 | 0001 | 115 | Negative | 33599 | Mens Bathroom | 2 | Wall | 0.098 | |
| 146 | 0001 | 115 | Negative | 33600 | Mens Bathroom | 3 | Wall | 0.322 | |
| 146 | 0001 | 115 | Negative | 33601 | Mens Bathroom | 1 | Floor | 0.566 | |
| 146 | 0001 | 115 | Negative | 33602 | Mens Bathroom | 1 | Bath Stall | 0.271 | |
| 146 | 0001 | 115 | Negative | 33603 | Mens Bathroom | 4 | Door | -0.928 | |
| 146 | 0001 | 115 | Negative | 33604 | Mens Bathroom | 4 | Door | -1.002 | |
| 146 | 0001 | 115 | Negative | 33605 | Mens Bathroom | 4 | Door | -0.398 | |
| 146 | 0001 | 115 | Negative | 33606 | Mens Bathroom | 4 | Door Casing | 0.414 | |
| 146 | 0001 | 115 | Negative | 33607 | Mens Bathroom | 3 | Door | -0.226 | |
| 146 | 0001 | 115 | Negative | 33608 | Mens Bathroom | 3 | Door Casing | 0.267 | |
| 146 | 0001 | 126 | Negative | 33611 | High Bay | 1 | Wall | -0.688 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|---------------|------|------------------|------------|--------------------|
| 146 | 0001 | 126 | Negative | 33612 | High Bay | 1 | Wall | -0.43 | |
| 146 | 0001 | 126 | Negative | 33613 | High Bay | 1 | Wall | -0.204 | |
| 146 | 0001 | 126 | Negative | 33614 | High Bay | 4 | Door | -0.014 | |
| 146 | 0001 | 126 | Negative | 33615 | High Bay | 4 | Door Casing | 0.005 | |
| 146 | 0001 | 128 | Unknown | 33618 | High Bay | 1 | Wall | 0 | |
| 146 | 0001 | 128 | Negative | 33619 | High Bay | 1 | Wall | -0.002 | |
| 146 | 0001 | 128 | Negative | 33620 | High Bay | 2 | Kick panel | 0.318 | |
| 146 | 0001 | 128 | XRF Positive | 33621 | High Bay | 2 | Support Post | 7.021 | |
| 146 | 0001 | 128 | Negative | 33622 | High Bay | 2 | Foundation | -0.401 | |
| 146 | 0001 | 128 | Negative | 33623 | High Bay | 2 | Baseboard heat | 0.22 | |
| 146 | 0001 | 128 | XRF Positive | 33624 | High Bay | 3 | Kick panel | 1.795 | |
| 146 | 0001 | 128 | XRF Positive | 33625 | High Bay | 3 | Window Wall Unit | 6.861 | |
| 146 | 0001 | 128 | XRF Positive | 33626 | High Bay | 3 | Support Post | 12.48 | |
| 146 | 0001 | 128 | Negative | 33627 | High Bay | 4 | Wall | 0.098 | |
| 146 | 0001 | 128 | Negative | 33628 | High Bay | 1 | Floor | -0.039 | |
| 146 | 0001 | 128 | Negative | 33629 | High Bay | 4 | Door | 0.066 | |
| 146 | 0001 | 128 | Negative | 33630 | High Bay | 4 | Door Casing | -0.116 | |
| 146 | 0001 | 128 | Negative | 33631 | Mens Bathroom | 1 | Ceiling | 0.282 | |
| 146 | 0001 | 128 | Negative | 33632 | Mens Bathroom | 1 | Tile Wall | -0.046 | |
| 146 | 0001 | 128 | Negative | 33633 | Mens Bathroom | 4 | Tile Wall | -0.088 | |
| 146 | 0001 | 128 | Negative | 33634 | Mens Bathroom | 1 | Floor | 0.083 | |
| 146 | 0001 | 128 | Negative | 33635 | Mens Bathroom | 4 | Bath Stall | 0.002 | |
| 146 | 0001 | 128 | Negative | 33636 | Mens Bathroom | 4 | Door | -1.016 | |
| 146 | 0001 | 128 | Negative | 33637 | Mens Bathroom | 4 | Door | 0.182 | |
| 146 | 0001 | 128 | Negative | 33638 | Mens Bathroom | 4 | Door Casing | -0.915 | |
| 146 | 0001 | 128 | Negative | 33639 | Mens Bathroom | 4 | Door Casing | 0.419 | |
| 146 | 0001 | 129 | Negative | 33642 | High Bay | 1 | Wall | -0.319 | |
| 146 | 0001 | 129 | Negative | 33643 | High Bay | 3 | Wall | -1.051 | |
| 146 | 0001 | 129 | Negative | 33644 | High Bay | 3 | Wall | 0.403 | |
| 146 | 0001 | 129 | Negative | 33645 | High Bay | 4 | Wall | 0.122 | |
| 146 | 0001 | 129 | XRF Positive | 33646 | High Bay | 2 | Window Wall Unit | 4.303 | |
| 146 | 0001 | 129 | Negative | 33647 | High Bay | 1 | Ceiling | 0.206 | |
| 146 | 0001 | 129 | Negative | 33648 | High Bay | 1 | Floor | -1.784 | |
| 146 | 0001 | 129 | Negative | 33649 | High Bay | 1 | Floor | 0.471 | |

| Bldg. | Floor | Room | Result | Shot Sequence | Location | Wall | Description | XRF Result | AA Analysis in PPM |
|-------|-------|------|--------------|---------------|---------------|------|------------------|------------|--------------------|
| 146 | 0001 | 129 | Negative | 33650 | High Bay | 4 | Wall | -0.029 | |
| 146 | 0001 | 129 | Negative | 33651 | High Bay | 4 | Door Casing | 0.031 | |
| 146 | 0001 | 131 | Negative | 33654 | Hallway | 4 | Door | -1.104 | |
| 146 | 0001 | 131 | Negative | 33655 | Hallway | 4 | Door | 0.406 | |
| 146 | 0001 | 131 | XRF Positive | 33656 | Hallway | 4 | Door Casing | 4.729 | |
| 146 | 0001 | 131 | XRF Positive | 33657 | Hallway | 4 | Window Wall Unit | 4.884 | |
| 146 | 0001 | 131 | Negative | 33658 | Hallway | 1 | Wall | -0.173 | |
| 146 | 0001 | 131 | Negative | 33659 | Hallway | 1 | Door | 0.021 | |
| 146 | 0001 | 131 | Negative | 33660 | Hallway | 1 | Door Casing | -0.007 | |
| 146 | 0001 | 131 | Negative | 33661 | Hallway | 3 | Wall | -0.277 | |
| 146 | 0001 | 131 | Negative | 33662 | Hallway | 3 | Door | -0.005 | |
| 146 | 0001 | 131 | Negative | 33663 | Hallway | 3 | Door Casing | 0.081 | |
| 146 | 0001 | 131 | Negative | 33664 | Mens Bathroom | 0 | Truss | 0.265 | |
| 146 | 0001 | 131 | Negative | 33665 | Hallway | 4 | Wall | -0.24 | |
| 146 | 0001 | 131 | Negative | 33666 | Hallway | 2 | Door | 0.115 | |
| 146 | 0001 | 131 | Negative | 33667 | Hallway | 2 | Door Casing | 0.342 | |
| 146 | 0001 | 131 | Negative | 33668 | Hallway | 3 | Wall | 0.077 | |
| 146 | 0001 | 131 | XRF Positive | 33669 | Hallway | 3 | Window Wall Unit | 5.093 | |
| 146 | 0001 | 131 | Negative | 33670 | Hallway | 3 | Door | -0.263 | |
| 146 | 0001 | 131 | Negative | 33671 | Hallway | 3 | Door Casing | -0.124 | |
| 146 | 0001 | 131 | Negative | 33672 | Hallway | 4 | Wall | -0.074 | |
| 146 | 0001 | 131 | Negative | 33673 | Hallway | 4 | Double Doors | -0.322 | |
| 146 | 0001 | 131 | Negative | 33674 | Hallway | 4 | Door Casing | -0.195 | |
| 146 | 0001 | 131 | Negative | 33675 | Hallway | 1 | Wall | -0.048 | |
| 146 | 0001 | 131 | Negative | 33676 | Hallway | 2 | Door | -0.065 | |
| 146 | 0001 | 131 | Negative | 33677 | Hallway | 0 | Closet Wall | -0.069 | |
| 146 | 0001 | 134 | Negative | 33680 | High Bay | 1 | Wall | -0.498 | |
| 146 | 0001 | 134 | Negative | 33681 | High Bay | 1 | Door | 0.043 | |
| 146 | 0001 | 134 | Negative | 33682 | High Bay | 1 | Door Casing | -0.216 | |
| 146 | 0001 | 134 | Negative | 33683 | High Bay | 2 | Wall | -0.089 | |
| 146 | 0001 | 134 | Negative | 33684 | High Bay | 3 | Wall | -0.389 | |
| 146 | 0001 | 134 | Negative | 33685 | High Bay | 3 | Door | -0.577 | |
| 146 | 0001 | 134 | Negative | 33686 | High Bay | 3 | Door Casing | -0.261 | |
| 146 | 0001 | 134 | XRF Positive | 33687 | High Bay | 4 | Window Wall Unit | 4.994 | |

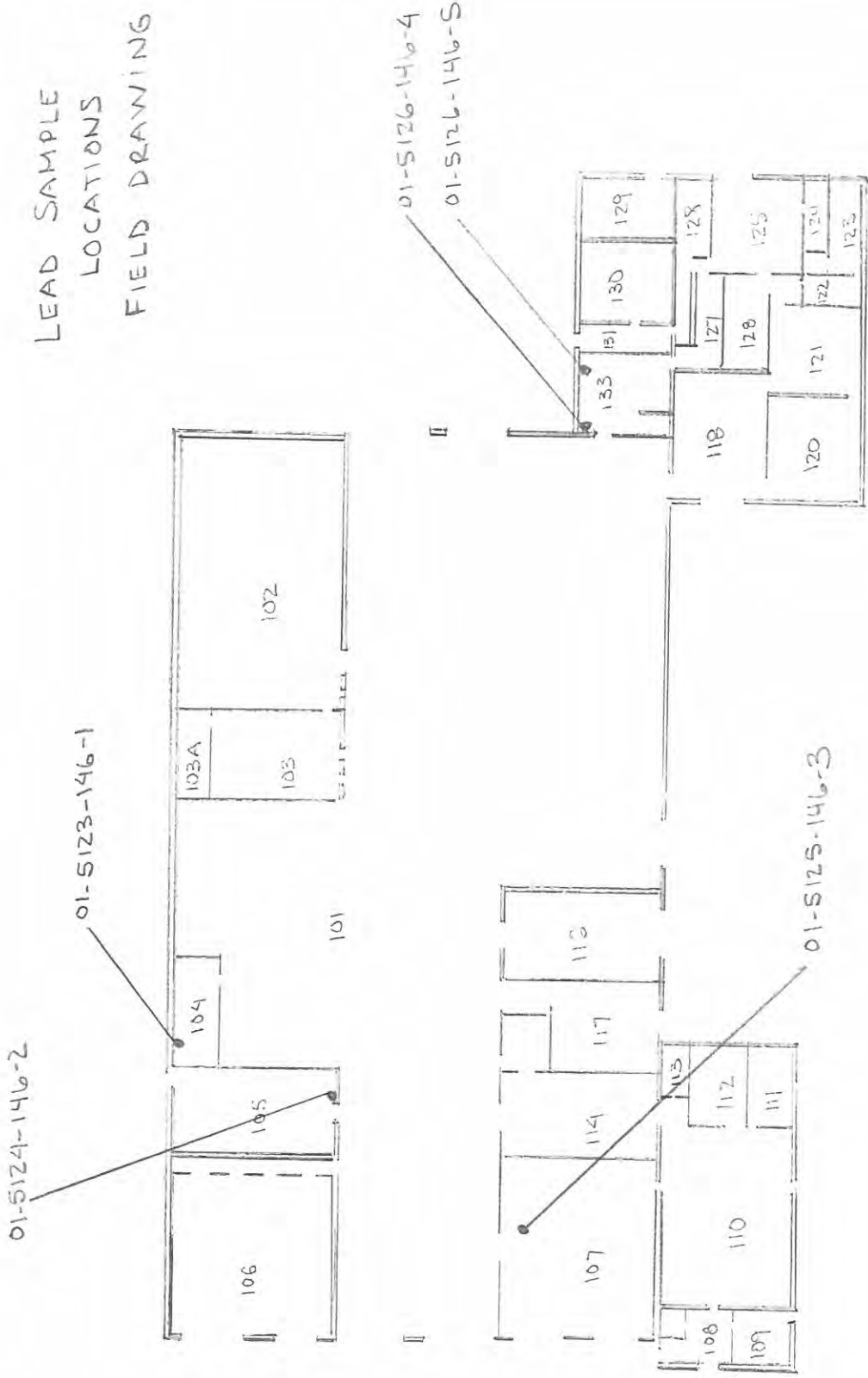
| <u>Bldg.</u> | <u>Floor</u> | <u>Room</u> | <u>Result</u> | <u>Shot Sequence</u> | <u>Location</u> | <u>Wall</u> | <u>Description</u> | <u>XRF Result</u> | <u>AA Analysis in PPM</u> |
|--------------|--------------|-------------|---------------|----------------------|-----------------|-------------|--------------------|-------------------|---------------------------|
| 146 | 0001 | 134 | Negative | 33688 | High Bay | 4 | Baseboard heat | -0.484 | |
| 146 | 0001 | 307 | Negative | 33691 | High Bay | 4 | Wall | -0.008 | |
| 146 | 0001 | 307 | Negative | 33692 | High Bay | 4 | Fire Door | -0.178 | |
| 146 | 0001 | 307 | Negative | 33693 | High Bay | 1 | Door Casing | -0.016 | |
| 146 | 0001 | 307 | Negative | 33694 | High Bay | 4 | Kitchen Cabinets | -0.293 | |
| 146 | 0001 | 307 | Negative | 33695 | High Bay | 2 | Door | 0.004 | |
| 146 | 0001 | 307 | Negative | 33696 | High Bay | 1 | Building Support | 0.069 | |

APPENDIX B
CERTIFICATION(S)

APPENDIX C

SITE MAP

LEAD SAMPLE
LOCATIONS
FIELD DRAWING



Property Inspections - Environmental Engineering
Specialized Training - Contract Management
3732 - A Charter Park Drive
San Jose, CA 951366
Phone: (408) 448-7594 - Fax: (408) 448-3849

PROJECT NAME:
Bldg 146
NASA AHCS
PARCEL 5

| | | |
|-----------------------------|-------|----------|
| DRAFT PERSON: | DATE: | DWG. No. |
| WLB | 11/15 | 2 |
| PROJECT NO. E01-448-ALSU | | |



APPENDIX D
LABORATORY RESULTS

SCHNEIDER LABORATORIES

INCORPORATED

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • (FAX) 804-353-6928

Excellence in Service and Technology

AIHA/ELLAP 100527, NVLAP 1150, NYELAP 11413, CAELAP 2078, NC 593, SC 93003

LABORATORY ANALYSIS REPORT

Lead Analysis by EPA 3050B/7420 Method

ACCOUNT #: 2541-01-125
CLIENT: Benchmark
ADDRESS: 3732 Charter Park Drive
San Jose, CA 95136

DATE COLLECTED: 8/31/2001
DATE RECEIVED: 9/7/2001
DATE ANALYZED: 9/7/2001
DATE REPORTED: 9/7/2001

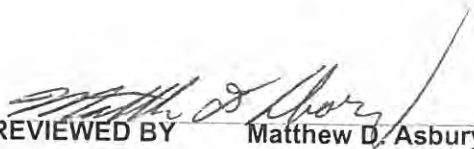
PO NO.:
PROJECT NAME: PAI
PROJECT NO: E01-448
JOB LOCATION: NASA Bldg 146

SAMPLE TYPE: PAINT

| SLI Sample No. | Client Sample No. | Sample Description | Sample Wt (mg) | Dilution Factor | Total Lead (µg)* | Lead Conc (% by wt) | Lead Conc (PPM) |
|----------------|-------------------|--------------------------|----------------|-----------------|------------------|---------------------|-----------------|
| 2038782 | 01-5123-146-1 | Sup Beam Rm 104 | 275 | 1 | 196.7 | 0.072 | 720 |
| 2038783 | 01-5124-146-2 | ClassRm Rm 108 105 | 541 | 1 | 23.1 | 0.004 | 40 |
| 2038784 | 01-5125-146-3 | West Vehicle Bay 105 107 | 213 | 100 | 20,123.5 | 9.448 | 94480 |
| J38785 | 01-5126-146-4 | Rm 130 Conc Fnd N | 316 | 1 | 73.3 | 0.023 | 230 |
| 2038786 | 01-5127-146-5 | Rm 130 Rad Wall | 456 | 1 | 237.8 | 0.052 | 520 |
| | QC - 19266 | 10.0 ppm Calibration Std | | | 1,009.7 | 101.0% | |
| | QC - 19266 | 200 µg spike | | | 201.2 | 100.6% | |
| | QC - 19266 | 5.0 ppm Calibration Std | | | 507.3 | 101.5% | |
| | QC - 19266 | Blank | | | < 20.0 | | |
| | QC - 19266 | NIST 2710 Standard | | | 562.1 | 101.6% | |

ANALYST: AMY J. COLOSIMO

Total no. of pages in report = /

REVIEWED BY  Matthew D. Asbury, Dept. Head

Minimum Reporting Limit: 20 µg Total Lead. For work involving HUD, child-occupied building and other residential units, the Federal Lead Standard is 0.5% lead by weight [5000 ppm]. The requirements of the OSHA Lead in Construction Standard, 29 CFR 1926.62, are invoked if any lead is present in the sample; there is no minimum concentration. *For true values, assume two (2) significant figures. All testing is performed in strict accordance with Schneider Laboratories, Inc. protocol.

