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Lead-Based Paint Inspection And Risk Assessment Report

For The Dwelling Located at:

Inks Dam National Fish Hatchery
Quarters 73
Route 2
Burnet, TX 78611
(512) 793 2474

Prepared For:

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And

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US EPA Certification No. NMF 003

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Part I: Executive Summary

iS²e, inc. conducted a Lead-Based Paint (LBP) Inspection (PI) and LBP Risk Assessment (RA) at Quarters No. 73, Inks Dam National Fish Hatchery, Burnet, TX 78611 on August 30, 2000. The home was occupied at the time of this inspection.

Quarters No.73 is a single story, pitched-roofed, frame and brick, single-family home with 3 bedrooms. The home faces to the east. Original construction occurred in 1961, comprising approximately 1182 ft². The home presently houses a single, adult, female, full-time NFH employee.

Lead-based paint Inspection results:

The exterior white paint on the carport's wood surfaces (soffit, roof trim) is in "unsatisfactory" condition and in need of repair/repainting. The exterior white paint on the Left-side Gable and its associated soffit/roof trim is also in "unsatisfactory" condition, and also should be repaired/repainted. All five items contain LBP. Only trained and licensed professionals should repair all five items.

All of the interior paint in this home is rated to be in "good" condition. The amount of lead and concentrations in the interior of this home is indicative of 1950s or early 1960s interior paint.

Lead-based paint Risk Assessment results:

A. Recommended Solutions for Lead Hazards Identified:

1. Exterior Lead Paint Hazard #1:

- a. The exterior white paint on the soffit and roof trim of the carport was rated to be in "unsatisfactory" condition, and contains more than 10ft² of LBP. Only trained and licensed professionals should repair this paint.
- b. The exterior white paint on the gable, soffit and roof trim on the south side of this home was also rated to be in "unsatisfactory" condition, and comprised more than 10ft² of LBP. Trained and licensed professionals should also only repair this paint.

B. Estimated Costs to Repair Lead Hazards Identified:

1. Exterior Lead Paint Hazard #1:

- a. Cost estimate to repair/repaint the Carport soffit and roof trim is \$400.00. (Approximately 128 ft²)
- b. Cost estimate to repair/repaint the south gable, soffit and roof trim is \$375. (Approximately 123 ft²)

The U.S. Fish and Wildlife Service is currently developing formal policy and guidance on training for managers, employees and residents. The training will include general lead awareness, work practice requirements, OSHA lead in construction standards, and U.S. Fish and Wildlife Service policy requirements concerning lead.

For any activity that would disturb surfaces identified as having lead, notify Terry Clayton with the Environmental and Facility Compliance Office at (303) 984-6867 or Bernie Freeman, the Regional Compliance Officer, at (505) 984-7956 prior to beginning work. Any construction activities that affect the preceding paint films (including sanding and demolition) must be initiated by workers wearing respiratory protection, and who have received proper training in the handling of lead contaminated materials.

Part II: Lead-Based Paint Definitions and Standards

A. Definitions:

1. **Lead-Based Paint Inspection**—defines and reports on the exact location of any/all painted surfaces that contain LBP by the HUD/EPA Interim Standard*.

*Note

The term "Standard" is used interchangeably with "Interim Standard". All of the HUD *Guidelines* Standards and EPA's Work Practice Standards are, in fact, Interim Standards, meaning that they may be subject to regulatory change with new data that supports a change to the "Standard". HUD's 1012 and 1013 Regulation alters the exterior damaged paint "Standard" from 10ft² to 20ft². EPA's TSCA 403 Regulation, when published in final form, will alter the 400PPM soil "Standard" (limit) to an "Area of Concern" (vice a limit). "Standards" can also be "action levels", and in many cases are "action levels".

2. **Lead-Based Paint Risk Assessment**—A Risk Assessment is an onsite investigation of a residential dwelling for Lead-Based Paint (LBP) "hazards", that includes, but may not be limited to, a visual inspection, limited environmental samplings (assays) of deteriorated paint**, soil and dust. The assays may be accomplished via XRF or laboratory analysis of paint chip samples, or a combination of both. The Risk Assessment will include a detailed report that identifies potential LBP "hazards"; controls (repair/replacement) associated with those "hazards", and provide monitoring recommendations when appropriate. In particular, the Risk Assessment is designed to identify LBP "hazards" that include:

- Deteriorated LBP (chipped, flaking, cracking, chalking, etc.),
- LBP contaminated dust, soil and
- LBP involving accessible (to children), friction (rubbing), or impact (slamming) surfaces that may have already, or may, in the future, damage a lead painted surface.

During the Risk Assessment, if any painted surfaces are noted to be damaged, then those surfaces are tested for lead content. Dust assays are taken at "key" locations that follow airflow patterns within the home in order to determine if lead is, or has migrated into or within the home.

3. **Lead-Based Paint Ratings**—iS2e, inc. uses a four scale paint rating system as follows:

- **Good**—Paint that is “new” or still has much of its “life” remaining. This rating requires no action by homeowner.
- **Fair**—Paint that is within 6-12 months of failure based on your iS2e, inc. Risk Assessor’s estimate. Paint requires little more than cleaning the surface prior to repainting. Homeowner may save considerable expense by applying another stabilizing coat of paint during the next 6-12 months.
- **Poor**—Paint that is “cracked or damaged such that its water tight integrity is compromised. Paint and/or substrate may require some repair prior to repainting.
- **Unsatisfactory (Unsat)**—Paint that is peeling such that the substrate beneath the paint is visible. Paint and/or substrate will usually require some repair prior to repainting. Homeowner may expect some wood component replacement due to “dry-rot”, or metal component repair due to “rust”.

B. **Standards:**

1. **HUD/EPA’s Lead-Based Paint Standard**—defines LBP as ≥ 1.0 mg/cm² (or 0.5% by weight).
2. **Lead-Based Paint Hazard**—is, by HUD/EPA Standard:
 - $\geq 2\text{ft}^2$, interior LBP rated “poor” or “unsat” by your iS2e, inc. Risk Assessor.
 - $\geq 10\text{ft}^2$, exterior LBP rated “poor” or “unsat” by your iS2e, inc. Risk Assessor.
(Note: HUD’s 1012/1013 Regulation will increase the affected area to 20ft^2 effective 15 September 2000.)
3. **Lead-Based Paint Dust Hazard**—is, by HUD/EPA Standard, (“swipe”) dust assay values determined by laboratory testing:
 - Floors (hard surfaced and carpeted)— ≥ 100 $\mu\text{g}/\text{ft}^2$
(Note: carpeted floors will probably be changed to an “area of concern”, vice a limit, with EPA’s TASCA 403 Regulation, when finalized.)
 - Interior window sills— ≥ 500 $\mu\text{g}/\text{ft}^2$
 - Window troughs (or wells) — ≥ 800 $\mu\text{g}/\text{ft}^2$
4. **Lead Contaminated Bare Soil Hazard**—is, by HUD/EPA Standard:
 - Bare Soil— ≥ 400 ppm, for concentrated children’s play areas (e.g. fenced back yards, schoolyards, playgrounds, ball fields, etc.) and vegetable gardens, requiring interim controls or abatement.
(Note: this limit will probably be changed to an “area of concern”, vice a limit, with EPA’s TASCA 403 Regulation, when finalized.)
 - Bare Soil— ≥ 2000 ppm, for all other residential bare soils, requiring interim controls or abatement.
 - Bare Soil— ≥ 5000 ppm, requires abatement.

5. **OSHA Standard**—is any level of airborne lead. The “action level” is 30 μg (micrograms) per M^3 (meter of air cubed) over an 8 hour, time-weighted-average (twa). This level will drive personnel protective equipment (PPE), such as respirators, coveralls, shower facilities, etc. The OSHA PEL (permissible elevation level) is 50 $\mu\text{g}/\text{M}^3$ (twa). This level will add medical monitoring, increased respirator capability, etc. OSHA is concerned with airborne lead and its effect upon the renovation/abatement worker. When LBP surfaces will be disturbed during renovation, especially in small interior spaces (closets, small bathrooms, etc.), the contractor should have the space monitored with a testing device that will alarm when the “action level” is triggered.

OSHA has identified several activities (e.g. manual demolition, manual scraping, manual/power sanding, heat gun applications, general cleanup, power tool cleaning with dust collection systems, and spray painting) that pose varying levels of potential lead exposure to workers disturbing lead-containing paint. Estimated exposure levels of lead are founded in the activity itself, rather than the concentrations of lead present in the paint. For example, paints that contain 0.5% versus 15% of lead by weight or 0.8 mg/cm^2 versus 3.5 mg/cm^2 of lead in paint could present the same levels of potential exposure to workers.

In other words, while HUD/EPA define LBP as paint containing lead at concentrations $\geq 1.0 \text{ mg}/\text{cm}^2$, the OSHA Standard for airborne lead dust anticipates that as little as 0.1 or 0.2 mg/cm^2 of lead in paint could present a hazardous condition when disturbed, causing exposure for workers. Because of this, **iS2e, inc.** provides the owner with a table (Part IV, A) showing all of the components that contain LBP by the HUD/EPA Standard; and a table (Part IV, B) showing all of the components that contain any lead between 0.1 and 0.9 mg/cm^2 .

Part III: Lead-Based Paint Inspection by XRF

The EDAX (dba SCITEC), Inc., MAP 4 Spectrum Analyzer (XRF serial number M4-1375) used for this survey irradiates the paint on a given surface causing the lead in the paint, if present, to emit a characteristic frequency of X-ray radiation. The instrument identifies and counts these x-rays to determine a lead concentration, and reports this concentration in mg/cm^2 .

The XRF's (X-ray Fluorescence) source used to excite the lead is a 12-millicurie Cobalt₅₇ gamma radiation pellet housed and shielded within the instrument. This particular XRF underwent its annual resource and re-calibration by the factory in Kennewick, WA in October 1999.

The XRF provides readings of "K-shell" (high energy) and "L-shell" (low energy) lead. The K-shell is the value that determines the amount of lead in the paint. The L-shell gives the operator information on the depth of the lead painted surface.

Your **iS²e Risk Assessor** uses either the "Confirm" or the "Unlimited" Modes of XRF operation during any Paint Inspections (PI) or Risk Assessments (RA). These modes are the most accurate and time consuming of the four modes (Screen, Test, Confirm, and Unlimited) within the instrument. The operator holds the trigger when sampling using the Unlimited Mode, until he/she gains approximate 2σ (sigma) worth of data on any given surface. This provides approximately 95% accuracy. The instrument is calibrated 5 times and averaged prior to leaving the office, calibrated at the job site, and re-calibrated approximately every hour thereafter, including job completion.

As can be seen from the Daily Calibration Log, an appendix to this report, M4-1375 remains within $0.10 \text{ mg}/\text{cm}^2$ of the required $1.39 \text{ mg}/\text{cm}^2$ factory calibration block.

The SCITEC Map 4 XRF has an "inconclusive" software signal built into the instrument from 0.9 to $1.2 \text{ mg}/\text{cm}^2$. Values below this amount are, by HUD/EPA Standard, not lead-based paint (LBP). Values above this range are clearly LBP. The operator can take a paint chip sample for laboratory analysis in order to prove the accuracy of the reading when the reading is in this "inconclusive range", or make a conservative determination that the "inclusive" value contains LBP.

Because the XRF has a capability (calibration accuracy) of $\pm 0.1 \text{ mg}/\text{cm}^2$ when operating in the Confirm and Unlimited modes, **iS²e, Inc.** has chosen to consider all readings (values) equal to or above $0.9 \text{ mg}/\text{cm}^2$ to contain LBP. This corporate decision is based on 5 years of RA and PI experience. This determination saves the homeowner the laboratory analysis cost of multiple paint-chip samples, and does not adversely mark or harm any painted surface on the property (e.g. banister, windowsill, baseboard, door or window trim, etc.), often requiring expensive/time consuming repair.

When reading the XRF Preliminary Report, an addendum to this report, all negative K and L-shell values should be interpreted as "zero". All K-shell XRF values above 0.1 , but less than $0.9 \text{ mg}/\text{cm}^2$ contain some lead, but the lead content is below the HUD/EPA standard defining LBP. All values at or above $0.9 \text{ mg}/\text{cm}^2$ are considered, by **iS²e, Inc.**, to be LBP.

The SCITEC Map 4 XRF has, built into the software, substrate correction values that prevent the operator from having to make the corrections manually. The "Unlimited" mode of operation will correct properly, even if the operator makes an incorrect coding error (e.g. setting sheetrock when the substrate is actually plaster, etc.).

The 12-millicurie Cobalt₅₇ gamma radiation pellet is so weak, even when first delivered from the factory, that it will not cause ionizing radiation to any surface or component tested. In other words, once the XRF is removed from the home, there is no lingering radiation, or any evidence that the XRF has ever been there.

Reading the Reports contained in the Appendices

1. **Raw XRF Data:**

Includes the coded address for the site, calibration data (both daily, and site beginning and ending), as well as assay data that has been collected at the home, apartment or day-care center.

2. **Preliminary XRF:**

Gives K & L-Shell XRF readings in mg/cm². The federal "action-level", always taken against the K-shell, is 1.0 mg/cm². The XRF has an "inconclusive" range of -0.1 to +0.2 centered about the "action-level". Should this "inconclusive" value occur, your Risk Assessor could remove a small (approx. 2x2 inch) sample of the painted surface for laboratory analysis, or declare the component to contain LBP. Declaring a component that contains 0.90 mg/cm² to contain LBP is a conservative and cost effective method of evaluating LBP.

Room # refers to the number of "like" rooms (e.g. 3 bedrooms). Wall # is conventional, where wall #1 is the wall toward the street (front or address side of the dwelling), and the other walls are numbered clockwise. Wall #3 is away from the street. Type refers to the mode of analysis that the SCITEC MAP 4 is operating under (e.g. screen, test, confirm, and unlimited). **iS²e, inc.** uses the confirm and unlimited modes exclusively, carrying the analysis to 2σ (95% confidence level) in accordance with EPA and HUD standards.

Numerous interior, wooden, concrete, tile, and sheetrock/plaster dwelling components are checked. These include, but are not limited to, exterior walls, wood trim, window trim and frames, door trim, frames and jambs, roof trim and soffit, interior walls, hard surface flooring, including tile floors, baseboard, tub and shower surrounds, counter tops and back splashes, cabinets, windowsills, doors, and door jambs, etc.

3. **Daily Calibration:**

Includes the Daily start calibrations (normally 5) with times, and includes the site "start" and "stop" calibrations, as well as any others taken against a known "assay-block" provided to **iS²e, inc.** by the SCITEC Corporation. The MAP 4 must always remain within ±0.1 of the factory test calibration for that specific serial numbered MAP. It will also typically remain within ±0.1 of the five Daily averages (column 6).

XRF MAP IV, serial number M4-1375 has had an exceptional record for accuracy. It almost always calibrates at or very near the 1.39 mg/cm² certified SCITEC assay block, even early in the workday and increases its accuracy as the device warms.

This XRF device was resourced and delivered by FEDEX from the SCITEC factory in Kennewick, WA, 1000, 10-19-99.

4. HUD Single Family Housing Report:

This report is included for Paint Inspections (PI) because the HUD *Guidelines* requires that PIs test interior and exterior walls four times (all four walls within each room group or equivalent). Additionally, this report contains current surface paint color, where the Preliminary XRF Report does not.

5. Assaigai Laboratory Report:

Dust—The report gives “swipe” assay results in $\mu\text{g}/\text{ft}^2$. The dust assay values give the **IS²e Risk Assessor** a valid method for determining whether any lead-based paint has deteriorated to a level that may have already, or will in the future, contribute to the contamination of the dwelling, and whether that dust, if contaminated, has migrated within the dwelling.

Bare Soil—The report gives soil sample values in PPM (parts per million or $\mu\text{g}/\text{g}$). Dripline soil is that soil within 3-4 feet of the foundation of the home or apartment. It is often contaminated to a greater extent than yard soil, especially for older dwellings that contain significant exterior LBP. Yard soil is normally selected from areas that have evidence of the presence of children, or from vegetable gardens.

6. Lead-Based Paint—The “do’s” and ‘don’ts” of LBP repair:

When painted dwelling components contain LBP above the federal “action-levels”; **DO NOT** allow repairs to include:

- a) Dry scraping or sanding, including machines without proper vacuum collection capability
- b) Unconfined hydra-blasting
- c) Open-flame burning or torching
- d) Abrasive blasting or sand blasting without using HEPA vacuum exhaust tools
- e) Heat-guns that operate above 1100°F
- f) HUD does not recommend using methylene chloride chemical strippers

When painted areas contain LBP above the federal “action-levels”; **DO** require repairs to include:

- a) Use of HEPA filtering equipment attached to the sanding machines
- b) Use of HEPA filtering vacuums to clean-up the area that has been scraped or sanded
- c) Containment of the affected areas (e.g. no high winds)
- d) If doors (exterior or interior) are removed to repair jambs, then seal off the residence of affected area using plastic sheeting and tape. (e.g. if repairing
- e) a jamb on an exterior door leading to the kitchen, hang plastic sheeting with a “full-seal” tape on the inside of the door to prevent the LBP dust from migrating into the kitchen.)
- f) Disposal of any contaminants and contaminated components using proper disposal methods.

7. Non-Professional Repair of LBP Components:

It is not often legal to repair, abate, or apply interim controls to LBP "hazards" or painted components that contain LBP to rental dwellings, or homes that house members not of your immediate family, unless you are trained to do so. However, it is permissible to make repairs when following (exactly) the written instructions of a certified LBP Risk Assessor. Those items that you can accomplish personally, involve:

- planting sod or placing other ground covering such as rock, over bare soil,
- painting surfaces that have been prepared professionally, or
- removing components that will not disturb LBP, such as doors, and then having them disposed of properly if they contain LBP.

8. Risk Assessments versus Paint Inspections:

Please remember a Risk Assessment does not test or identify all painted surfaces. It only identifies those painted surfaces that were unsound (rated "poor" or "unsat" by your **iS²e Risk Assessor**) unless specifically noted otherwise in the reports. A Paint Inspection, however, tests all "like" painted surfaces. "Like" painted surfaces are those that your **iS²e Risk Assessor or Paint Inspector** estimates to have the same or similar paint history, and clearly contain pre-1978 paint.

9. Title X's Disclosure Requirements:

A copy of this report must be provided to new lessees (tenants), providing the lease exceeds 100 days, and to purchasers of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. The complete report must also be provided to new purchasers and it must be made available to new tenants.

Landlords (lessors) and sellers are also required to distribute an educational pamphlet approved by the U.S. Environmental Protection Agency and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

Any repairs specified by this report, or accomplished on any of the leaded (Pb) surfaces identified in this report (See Table in Part IV, Sub-part A) should be documented on this report, attaching receipts to the report, maintaining dates, and any notes directly on the report. This report should be preserved and maintained with this dwelling. It will serve present and future homeowners with proper lead (Pb) disclosure as required by Title X, Section 1018 of Public Law 102-550.

10. Contacting your iS²e Risk Assessor:

If owner or agent has any questions concerning the findings or ramifications of this report, please call your **iS²e Risk Assessor** at 823 6411 (Albuquerque), or 1 888 828 0607 outside of Albuquerque.

Part IV: Lead-Based Paint Inspection Results

A. Lead-based Paint (LBP) Components—Those items that contain lead at or above 0.9 mg/cm².

Preliminary XRF Report No.	Component	Location	Color	Paint Condition	HUD/EPA Lead Status (≥1.0mg/cm ²)	OSHA Lead Potential (≥0.1mg/cm ²)	XRF Result mg/cm ²
498	Soffit	Carport	White	Unsat	LBP	Yes	1.415
499	Roof Trim	Carport	White	Unsat	LBP	Yes	1.655
501	Ext. Door Jamb	Gar. Storage	White	Fair	LBP	Yes	1.455
502	Int. Front Door	Gar. Storage	White	Good	LBP	Yes	0.933
503	Soffit	Exterior Front	White	Good	LBP	Yes	1.127
506	Gable	Ext. Left Side	White	Unsat	LBP	Yes	0.927
507	Front Door Jamb	Entry	White	Good	LBP	Yes	1.447

The components discovered during the onsite testing that exceeded the federal standard for lead paint are the items listed above.

The Leaded components are addressed in detail under Part V and VI, C of this Report.

B. Lead-Containing Components—Those items that contain lead at or above 0.1 mg/cm², but below 0.9 mg/cm².

Preliminary XRF Report No.	Component	Location	Color	Paint Condition	HUD/EPA Lead Status (≥1.0mg/cm ²)	OSHA Lead Potential (≥0.1mg/cm ²)	XRF Result mg/cm ²
500	Entry Door	Ext. Gar. Storage	White	Fair	Non-LBP	Yes	0.618
504	Roof Trim	Ext. Front	White	Good	Non-LBP	Yes	0.284
505	Ceiling	Front Porch	White	Fair	Non-LBP	Yes	0.775
510	Int. Wall – LHS	Living Room	White	Good	Non-LBP	Yes	0.109
511	Int. Wall – Rear	Living Room	White	Good	Non-LBP	Yes	0.102
512	Int. Wall – RHS	Living Room	White	Good	Non-LBP	Yes	0.113
515	Ceiling	Living Room	White	Good	Non-LBP	Yes	0.276
516	Int. Wall Average	Hallway	White	Good	Non-LBP	Yes	0.103
518	Cabinets	Hallway	White	Good	Non-LBP	Yes	0.238
521	Int. Wall – RHS	Full Bath	Tan	Good	Non-LBP	Yes	0.155
525	Int. Wall – RHS	Bedroom #1	White	Good	Non-LBP	Yes	0.252
526	Ceiling	Bedroom #1	White	Good	Non-LBP	Yes	0.153
528, 530	Int. Wall Average	Bedroom #2	White	Good	Non-LBP	Yes	0.111
534, 35, 36	Int. Wall Average	Bedroom #3	White	Good	Non-LBP	Yes	0.183
537, 39, 40	Int. Wall Average	Utility Room	White	Good	Non-LBP	Yes	0.157
547	Cabinets	Kitchen	White	Good	Non-LBP	Yes	0.234

The HUD *Guidelines* require that painted interior walls of each room must be tested during a paint inspection. The requirement is driven by the fact that the interior walls generally contain the greatest painted areas within the home, and the fact that the lead content of the paint seldom is applied/distributed evenly.

The exterior white paint on the carport's wood surfaces (soffit, roof trim) is in "unsatisfactory" condition and in need of repair/repainting. The exterior white paint on the Left-side Gable and its associated soffit/roof trim is also in "unsatisfactory" condition, and also should be repaired/repainted. All five items contain LBP. Only trained and licensed professionals should repair all five items.

All of the interior paint in this home is rated to be in "good" condition. The amount of lead and concentrations in the interior of this home is indicative of 1950s or early 1960s interior paint.

C. Non-Lead-Containing Components—Those items that contain lead below 0.1 mg/cm², or contain a negative K-shell reading.

All other components checked by XRF, throughout the property, and not listed in either of the two tables above, contained no detectable (or insignificant) lead content.

D. Paint Ratings—while regulations do not allow paint condition ratings by a paint inspector; the regulations do allow such rating during a paint inspection when performed by a risk assessor. This is done to assist the renovation contractor by alerting him/her to those painted surfaces that may require attention.

- Paints rated "Good" that contain lead present no current hazard unless disturbed.
- Paints rated "Fair" are nearing the end of their useful life and should be re-stabilized with another coat of paint before they can become a source of lead dust.
- Paints rated "Poor" (cracked) or "Unsatisfactory" (peeling) should be removed, the surfaces/substrates repaired/replaced and then re-painted. The lead paint removal process should involve capturing all of the leaded paint, not allowing it to contaminate soil or any interior surfaces.

Part V: Lead-Glazes in Ceramic Tiles

NOT A LEAD HAZARD—The ceramic tiles on the Full Bath backsplash and the Utility Room floor contain low or insignificant quantities of lead in their glazes. (The reader's attention is invited to see lines 520, and 541, column #9 of the Preliminary XRF Report).

The interim federal standard, identifying lead-based paint, contains 1.0 mg/cm² of lead. The backsplash ceramic tiles contain lead at 0.079 mg/cm².

However, it is your **iS²e Risk Assessor's** opinion, in consultation with the Region VI EPA toxic waste coordinator, Mr. Jeff Robinson, that these tiles currently do not present any LBP "hazard".

During renovation, if these tiles are removed/replaced (broken-up), they can create a significant amount of lead dust. Precautions should be taken during any such evolution to protect the workers, the inhabitants, and the dwelling itself. During any future renovation (when Pb painted surfaces, including the ceramic tiles, may be disturbed), Pb levels, even very low ones, can exceed OSHA respiratory Permissible Elevation (breathing) Levels (PELs), especially in confined spaces (e.g. closets, small bathrooms, etc.).

Ceramic tile has a baked-on glaze that is sufficiently durable to capture and hold any Lead Paint/glazing, so long as the glaze remains intact. The homeowner may limit his/her liability by making this report available to any contractor that attempts to remove this tile. This will alert the contractor to follow the OSHA regulations with regard to PELs. Additionally, the contractor should take ample precautions to prevent the spreading of any Pb dust during the tile removal throughout the home. These precautions should include:

- Sealing the affected rooms, using plastic sheeting and masking tape;
- Removing the tiles;
- Gathering the tiles into plastic bag-lined cardboard boxes (where the bag can be closed prior to removal from the area); and
- Using HEPA filtered vacuums (going over all exposed surfaces in the affected areas, including ceilings, walls, floors, windows, frames, sills, door trim, baseboards, etc.), twice covering with the vacuum all areas of the affected rooms, prior to unsealing those rooms.

In order to repair any chipped or damaged tiles in the future, these should first be washed with warm, soapy water, rinsed and dried. The homeowner using epoxy-resin-paint may then repair the damaged portion of the tile. This will re-seal the lead within the glaze.

These leaded tiles should only be cleaned with pH neutral or basic solutions (soaps, aqueous bleach, or common cleaners – e.g. 409, etc.) Acid solutions, even mild ones, may eventually attack the glaze in these tiles, and therefore should not be used. Even vinegar and water, if used enough times, may break down the glaze protecting the lead in these tiles, and therefore, should not be used.

WARNING

<p>DO NOT MIX AMMONIA AND BLEACH. This combination will form a deadly gas!</p>
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Part VI: Lead-Based Paint Risk Assessment

A. Visual Inspection/Findings:

iS²e, inc. conducted a Lead-Based Paint (LBP) Inspection (PI) and LBP Risk Assessment (RA) at Quarters No. 73, Inks Dam National Fish Hatchery, Burnet, TX 78611 on August 30, 2000. The home was occupied at the time of this inspection.

Quarters No.73 is a single story, pitched-roofed, frame and brick, single-family home with 3 bedrooms. The home faces to the east. Original construction occurred in 1961, comprising approximately 1182 ft². The home presently houses a single, adult, female, full-time NFH employee.

Floor dust samples were gathered from the front entry and back entry to this home. Windowsill dust samples were gathered from Dining Room (S), Bedroom #1 (N) and Bedroom #2 (W).

A composite soil sample was gathered from various points, near the foundation, beneath windows, and annotated on the sketch at the end of this report. The bare soil, composite yard samples concentrated on play areas on the north and west sides of this home.

The results of the dust and soil testing are discussed in Sections D and E of this Part.

B. Background/Use Information: The home functions presently as a permanent residence for a single, adult, female full-time NFH employee.

C. Lead-Based Paint Hazard(s) Identified: Two (2)

1. The exterior white paint on the soffit and roof trim of the carport was rated to be in "unsatisfactory" condition, and contains more than 10ft² of LBP. Only trained and licensed professionals should repair this paint.
2. The exterior white paint on the gable, soffit and roof trim on the south side of this home was also rated to be in "unsatisfactory" condition, and comprised more than 10ft² of LBP. Trained and licensed professionals should also only repair this paint.

D. Lead Dust Hazard(s) Identified: NONE (0)

The Assaigai Analytical Laboratories single floor dust assay values for:

- The front entry 5.0 µg/ft²
- The rear entry to Utility Room ND µg/ft²

ND = no lead detected. These values are significantly below the federal Risk Assessment (RA) "action-level" ($100 \mu\text{g}/\text{ft}^2$). The Front Porch value is reflective of the condition and lead content of the white paint on the front porch ceiling. The Laboratory's detection limit for this sample is $5 \mu\text{g}/\text{ft}^2$.

The Assaigai Analytical Laboratories single windowsill dust assay values for:

- Bedroom #1 ND $\mu\text{g}/\text{ft}^2$
- Bedroom #2 ND $\mu\text{g}/\text{ft}^2$
- Dining Room $13.9 \mu\text{g}/\text{ft}^2$

Each of these values is below the federal Risk Assessment (RA) "action-level" ($500 \mu\text{g}/\text{ft}^2$). The Laboratory's detection limit for these samples is 12.4, 11.2, and $12.8 \mu\text{g}/\text{ft}^2$ respectively. These extremely low values are reflective of the post WWII paint and a lack of plastic mini-blinds.

With reasonable exterior paint maintenance, and absent any leaded mini-blinds, it has been your **iS²e Risk Assessor's** experience to find that maintaining windowsill dust lead levels at $10 \mu\text{g}/\text{ft}^2$ or less with quarterly cleaning is quite possible.

E. Lead Contaminated Soil Hazard(s) Identified: NONE (0)

The Assaigai Analytical Laboratories composite bare soil assay values for:

- The dripline 14.6 PPM
- The yard soil 50.2 PPM

Both of these values are below the lowest federal Risk Assessment (RA) "action-level" (400 PPM for high-density children's play area). The prevailing wind is from the SE. One of the yard samples was taken approximately 8 feet from the NE corner of the Carport. The yard lead contamination test result is most certainly reflective of the condition and Pb content in the white exterior soffit and trim paint on wood surfaces of the Carport. Keeping the bare soil covered with sod (grass) near the Carport will suppress any potential hazard. The Laboratory's detection limit for these samples is 5 PPM.

iS²e, inc. routinely finds most soils in residential settings throughout the State fall in the 10-25 PPM range.

F. Lead Water Hazard(s) Identified: NONE (0)

The Assaigai Analytical Laboratories water testing assay value for:

- The Kitchen Sink – "1st Draw" 2.0 $\mu\text{g}/\text{L}$

The US EPA Standard for "1st Draw" water testing is to take place at the kitchen sink and be the first water from the tap that day. This is to allow time (over night) for the lead (if any) to leach from the water pipes, solder joints, or metal into the drinking/cooking water. The Standard is 15 µg/L (millionths of a gram of lead per Liter of water). The test value is unremarkable.

G. Other Lead Hazard(s): NONE (0)

Part VII: Prioritized List of Lead Hazards Identified

C. Recommended Solutions for Lead Hazards Identified:

2. Exterior Lead Paint Hazard #1:

- b. The exterior white paint on the soffit and roof trim of the carport was rated to be in "unsatisfactory" condition, and contains more than 10ft² of LBP. Only trained and licensed professionals should repair this paint.
- c. The exterior white paint on the gable, soffit and roof trim on the south side of this home was also rated to be in "unsatisfactory" condition, and comprised more than 10ft² of LBP. Trained and licensed professionals should also only repair this paint.

D. Estimated Costs to Repair Lead Hazards Identified:

2. Exterior Lead Paint Hazard #1:

- c. Cost estimate to repair/repaint the Carport soffit and roof trim is \$400.00. (Approximately 128 ft²)
- d. Cost estimate to repair/repaint the south gable, soffit and roof trim is \$375. (Approximately 123 ft²)

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Albuquerque NM 87111-7536

Report RAW XRF Data

Customer: US Fish & Wildlife Serv.
7333 W. Jefferson Ave.
Lakewood, CO 80235

Project Name: Inks Dam NFH
Route 2
Burnet, TX 78611

Site Name: Qtrs 73
1961; 1025ft2.

Action Level 1.000 mg /cm2

Lab 1.000 mg /cm2

Total Assays Reported

59

#	Cust	Proj	Site	Identification Number	Sample Number	K-Shell mg/cm2	L-Shell mg/cm2	Calibration	Time (sec)	Map #
490	0025	0005	0003	.002500050003	1	0.000 X	0.000 X	NONE	0.000	0
491	0025	0005	0003	.0830012385642375	1	1.182 K	1.435 L	K-Shell	55.420	375
492	0025	0005	0003	.0830012385642375	2	1.242 K	1.359 L	K-Shell	36.620	375
493	0025	0005	0003	.0830012385642375	3	1.317 K	1.319 L	K-Shell	49.160	375
494	0025	0005	0003	.0830012385642375	4	1.210 K	1.371 L	K-Shell	72.150	375
495	0025	0005	0003	.0830012385642375	5	1.293 K	1.382 L	K-Shell	55.430	375
496	0025	0005	0003	.0830012385642375	6	1.287 K	1.317 L	K-Shell	36.600	375
497	0025	0005	0003	1616281211	1	-0.051 K	0.010 L	K-Shell	13.620	375
498	0025	0005	0003	4471412	1	1.415 K	0.313 L	K-Shell	24.070	375
499	0025	0005	0003	4481413	1	1.655 K	0.271 L	K-Shell	26.160	375
500	0025	0005	0003	1811021214	1	0.618 K	0.333 L	K-Shell	24.070	375
501	0025	0005	0003	1031215	1	1.455 K	1.087 L	K-Shell	21.970	375
502	0025	0005	0003	1011114	1	0.933 K	0.644 L	K-Shell	32.420	375
503	0025	0005	0003	0113471116	1	1.127 K	0.400 L	K-Shell	19.890	375
504	0025	0005	0003	3481117	1	0.284 K	0.144 L	K-Shell	21.980	375
505	0025	0005	0003	0516281218	1	0.775 K	0.240 L	K-Shell	21.980	375
506	0025	0005	0003	0214451419	1	0.927 K	0.370 L	K-Shell	21.970	375
507	0025	0005	0003	2011031119	1	1.447 K	0.135 L	K-Shell	21.980	375
508	0025	0005	0003	.0830013155642375	1	1.384 K	1.379 L	K-Shell	32.420	375
509	0025	0005	0003	2311234119	1	-0.032 K	-0.023 L	K-Shell	24.070	375
510	0025	0005	0003	2234119	1	0.109 K	0.111 L	K-Shell	32.420	375

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Lab 1.000 mg /cm2

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59

#	Cust	Proj	Site	Identification Number	Sample Number	K-Shell mg/cm2	L-Shell mg/cm2	Calibration	Time (sec)	Map #
532	0025	0005	0003	1421569	1	-0.159 K	-0.099 L	K-Shell	11.530	375
533	0025	0005	0003	2931234119	1	-0.204 K	0.027 L	K-Shell	28.250	375
534	0025	0005	0003	2234119	1	0.356 K	0.116 L	K-Shell	26.160	375
535	0025	0005	0003	3234119	1	0.453 K	0.304 L	K-Shell	24.070	375
536	0025	0005	0003	4234119	1	0.126 K	0.151 L	K-Shell	26.160	375
537	0025	0005	0003	4411234119	1	0.247 K	0.180 L	K-Shell	21.980	375
538	0025	0005	0003	2234119	1	-0.137 K	-0.014 L	K-Shell	26.150	375
539	0025	0005	0003	3234119	1	0.397 K	0.228 L	K-Shell	26.160	375
540	0025	0005	0003	4234119	1	0.122 K	0.103 L	K-Shell	26.160	375
541	0025	0005	0003	5082119	1	-0.266 K	0.047 L	K-Shell	28.250	375
542	0025	0005	0003	3031119	1	0.001 K	0.057 L	K-Shell	21.980	375
543	0025	0005	0003	4111234119	1	-0.102 K	0.010 L	K-Shell	30.340	375
544	0025	0005	0003	2234119	1	-0.218 K	-0.114 L	K-Shell	19.890	375
545	0025	0005	0003	3234119	1	-0.196 K	-0.233 L	K-Shell	19.890	375
546	0025	0005	0003	4234119	1	-0.035 K	0.074 L	K-Shell	26.160	375
547	0025	0005	0003	3321119	1	0.234 K	-0.014 L	K-Shell	19.890	375
548	0025	0005	0003	.0830013585642375	1	1.335 K	1.380 L	K-Shell	32.430	375

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Preliminary XRF

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Total Assays Reported

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#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Type	Result
497	0003	Carport	1	Ceilin	Ceiling	Wood	Fair	-0.051 K	0.010 L	375	UNLM	Neg
498	0003	Carport	1	R-Sid	Soffit	Wood	Unsat	1.415 K	0.313 L	375	UNLM	Pos
499	0003	Carport	1	R-Sid	Roof Trim	Wood	Unsat	1.655 K	0.271 L	375	UNLM	Pos
500	0003	Storage	1	Front	Entry Door (ext.)	Wood	Fair	0.618 K	0.333 L	375	UNLM	Neg
501	0003	Storage	1	Front	Door Jamb	Wood	Fair	1.455 K	1.087 L	375	UNLM	Pos
502	0003	Storage	1	Front	Entry Door (int.)	Wood	Good	0.933 K	0.644 L	375	UNLM	Incl
503	0003	Ext. Front	1	Rear	Soffit	Wood	Good	1.127 K	0.400 L	375	UNLM	Incl
504	0003	Ext. Front	1	Rear	Roof Trim	Wood	Good	0.284 K	0.144 L	375	UNLM	Neg
505	0003	Front Porch	1	Ceilin	Ceiling	Wood	Fair	0.775 K	0.240 L	375	UNLM	Neg
506	0003	Ext. L-Side	1	R-Sid	Exterior Wall	Wood	Unsat	0.927 K	0.370 L	375	UNLM	Incl
507	0003	Entry/Foyer	1	Front	Door Jamb	Wood	Good	1.447 K	0.135 L	375	UNLM	Pos
509	0003	Living Room	1	Front	Interior Wall	Sheetrock	Good	-0.032 K	-0.023 L	375	UNLM	Neg
510	0003	Living Room	1	L-Sid	Interior Wall	Sheetrock	Good	0.109 K	0.111 L	375	UNLM	Neg
511	0003	Living Room	1	Rear	Interior Wall	Sheetrock	Good	0.102 K	-0.035 L	375	UNLM	Neg
512	0003	Living Room	1	R-Sid	Interior Wall	Sheetrock	Good	0.113 K	0.136 L	375	UNLM	Neg
513	0003	Living Room	1	R-Sid	Closet Door	Aluminum	Good	0.000 K	0.206 L	375	UNLM	Neg
514	0003	Living Room	1	Rear	Baseboard	Wood	Good	0.061 K	-0.231 L	375	UNLM	Neg
515	0003	Living Room	1	Ceilin	Ceiling	Sheetrock	Good	0.276 K	0.317 L	375	UNLM	Neg
516	0003	Hallway	1	Front	Interior Wall	Sheetrock	Good	0.186 K	-0.018 L	375	UNLM	Neg
517	0003	Hallway	1	Rear	Interior Wall	Sheetrock	Good	0.020 K	-0.008 L	375	UNLM	Neg
518	0003	Hallway	1	Front	Cabinets -	Wood	Good	0.238 K	-0.038 L	375	UNLM	Neg

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Preliminary XRF

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Site Name: Qtrs 73
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Action Level 1.000 mg/cm2

Lab 1.000 mg/cm2

Total Assays Reported

50

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Type	Result
519	0003	Hallway	1	Floor	Floor - Carpet	Concrete	Good	-0.097 K	-0.126 L	375	UNLM	Neg
520	0003	Bath - Full	1	R-Sid	Backsplash	Tile	Good	0.079 K	-1.472 L	375	UNLM	Neg
521	0003	Bath - Full	1	R-Sid	Interior Wall	Sheetrock	Good	0.155 K	0.171 L	375	UNLM	Neg
522	0003	Bedroom	1	Front	Interior Wall	Sheetrock	Good	0.036 K	0.003 L	375	UNLM	Neg
523	0003	Bedroom	1	L-Sid	Interior Wall	Sheetrock	Good	0.074 K	0.182 L	375	UNLM	Neg
524	0003	Bedroom	1	Rear	Interior Wall	Sheetrock	Good	-0.032 K	0.058 L	375	UNLM	Neg
525	0003	Bedroom	1	R-Sid	Interior Wall	Sheetrock	Good	0.252 K	0.130 L	375	UNLM	Neg
526	0003	Bedroom	1	Ceilin	Ceiling	Sheetrock	Good	0.153 K	-0.038 L	375	UNLM	Neg
527	0003	Bedroom	2	Front	Interior Wall	Sheetrock	Good	0.000 K	0.105 L	375	UNLM	Neg
528	0003	Bedroom	2	L-Sid	Interior Wall	Sheetrock	Good	0.219 K	0.125 L	375	UNLM	Neg
529	0003	Bedroom	2	Rear	Interior Wall	Sheetrock	Good	0.045 K	0.008 L	375	UNLM	Neg
530	0003	Bedroom	2	R-Sid	Interior Wall	Sheetrock	Good	0.179 K	0.067 L	375	UNLM	Neg
531	0003	Bedroom	2	Front	Interior Door	Wood	Good	0.074 K	-0.051 L	375	UNLM	Neg
532	0003	Bedroom	2	Front	Interior Door	Wood	Stain	-0.159 K	-0.099 L	375	UNLM	Neg
533	0003	Bedroom	3	Front	Interior Wall	Sheetrock	Good	-0.204 K	0.027 L	375	UNLM	Neg
534	0003	Bedroom	3	L-Sid	Interior Wall	Sheetrock	Good	0.356 K	0.116 L	375	UNLM	Neg
535	0003	Bedroom	3	Rear	Interior Wall	Sheetrock	Good	0.453 K	0.304 L	375	UNLM	Neg
536	0003	Bedroom	3	R-Sid	Interior Wall	Sheetrock	Good	0.126 K	0.151 L	375	UNLM	Neg
537	0003	Util/Laundry	1	Front	Interior Wall	Sheetrock	Good	0.247 K	0.180 L	375	UNLM	Neg
538	0003	Util/Laundry	1	L-Sid	Interior Wall	Sheetrock	Good	-0.137 K	-0.014 L	375	UNLM	Neg
539	0003	Util/Laundry	1	Rear	Interior Wall	Sheetrock	Good	0.397 K	0.228 L	375	UNLM	Neg

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Preliminary XRF

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Route 2
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Site Name: Qtrs 73
1961; 1025ft2.

Action Level 1.000 mg /cm2

Lab 1.000 mg /cm2

Total Assays Reported

50

#	Site	Room Tested	#	Wall	Component	Substrate	Paint Condition	K-Shell mg/cm2	L-Shell mg/cm2	Map #	Type	Result
540	0003	Util/Laundry	1	R-Sid	Interior Wall	Sheetrock	Good	0.122 K	0.103 L	375	UNLM	Neg
541	0003	Util/Laundry	1	Floor	Floor -	Tile	Good	-0.266 K	0.047 L	375	UNLM	Neg
542	0003	Util/Laundry	1	Rear	Door Jamb	Wood	Good	0.001 K	0.057 L	375	UNLM	Neg
543	0003	Kitchen	1	Front	Interior Wall	Sheetrock	Good	-0.102 K	0.010 L	375	UNLM	Neg
544	0003	Kitchen	1	L-Sid	Interior Wall	Sheetrock	Good	-0.218 K	-0.114 L	375	UNLM	Neg
545	0003	Kitchen	1	Rear	Interior Wall	Sheetrock	Good	-0.196 K	-0.233 L	375	UNLM	Neg
546	0003	Kitchen	1	R-Sid	Interior Wall	Sheetrock	Good	-0.035 K	0.074 L	375	UNLM	Neg
547	0003	Kitchen	1	Rear	Kitchen	Wood	Good	0.234 K	-0.014 L	375	UNLM	Neg

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Daily Calibration

Project	Site	Date	Time	K-Shell mg/cm2	K-Avg. mg/cm2	L-Shell mg/cm2	L-Avg. mg/cm2	Scanner #	Instr #	Oper
0004	0002	08/30/00	06:54A	1.212	1.212	1.405	1.405	M41375	375	5642
0004	0002	08/30/00	06:55A	1.307	1.307	1.320	1.320	M41375	375	5642
0004	0002	08/30/00	06:55A	1.357	1.357	1.338	1.338	M41375	375	5642
0004	0002	08/30/00	07:02A	1.409	1.409	1.412	1.412	M41375	375	5642
0005	0002	08/30/00	08:58A	1.470	1.470	1.389	1.389	M41375	375	5642
0005	0002	08/30/00	09:49A	1.352	1.352	1.393	1.393	M41375	375	5642
0005	0002	08/30/00	10:22A	1.168	1.168	1.377	1.377	M41375	375	5642
0005	0002	08/30/00	10:23A	1.296	1.296	1.353	1.353	M41375	375	5642
0005	0002	08/30/00	10:24A	1.299	1.299	1.385	1.385	M41375	375	5642
0005	0003	08/30/00	11:37A	1.182	1.182	1.435	1.435	M41375	375	5642
0005	0003	08/30/00	11:38A	1.242	1.242	1.359	1.359	M41375	375	5642
0005	0003	08/30/00	11:39A	1.317	1.317	1.319	1.319	M41375	375	5642
0005	0003	08/30/00	11:42A	1.210	1.210	1.371	1.371	M41375	375	5642
0005	0003	08/30/00	11:43A	1.293	1.293	1.382	1.382	M41375	375	5642
0005	0003	08/30/00	11:45A	1.287	1.287	1.317	1.317	M41375	375	5642
0005	0003	08/30/00	12:12P	1.384	1.384	1.379	1.379	M41375	375	5642
0005	0003	08/30/00	12:55P	1.335	1.335	1.380	1.380	M41375	375	5642

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Single Family HUD Data Sheet

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Site Name: Qtrs 73
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Action Level 1.000 mg /cm2

Lab 1.000 mg /cm2

Total Assays Reported

50

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
375	Ext. Front	1	(GX)	Rear	Soffit	Wood	White	Good	1.127 K	1.127		Incl
375	Ext. Front	1	(GX)	Rear	Roof Trim	Wood	White	Good	0.284 K	0.284		Neg
375	Ext. L-Side	1	(GX)	R-Sid	Exterior Wall	Wood	White	Unsat	0.927 K	0.927		Incl
375	Front Porch	1	(GX)	Ceilin	Ceiling	Wood	White	Fair	0.775 K	0.775		Neg
375	Carport	1	(GX)	Ceilin	Ceiling	Wood	White	Fair	-0.051 K	-0.051		Neg
375	Carport	1	(GX)	R-Sid	Soffit	Wood	White	Unsat	1.415 K	1.415		Pos
375	Carport	1	(GX)	R-Sid	Roof Trim	Wood	White	Unsat	1.655 K	1.655		Pos
375	Storage	1	(GX)	Front	Entry Door (int.)	Wood	White	Good	0.933 K	0.933		Incl
375	Storage	1	(GX)	Front	Entry Door (ext.)	Wood	White	Fair	0.618 K	0.618		Neg
375	Storage	1	(GX)	Front	Door Jamb	Wood	White	Fair	1.455 K	1.455		Pos
375	Entry/Foye	1	(GX)	Front	Door Jamb	Wood	White	Good	1.447 K	1.447		Pos
375	Hallway	1	(GX)	Floor	Floor - Carpet	Concrete	Brown	Good	-0.097 K	-0.097		Neg
375	Hallway	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.186 K	0.103		Neg
375	Hallway	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.020 K			
375	Hallway	1	(GX)	Front	Cabinets -	Wood	White	Good	0.238 K	0.238		Neg
375	Living	1	(GX)	Rear	Baseboard	Wood	White	Good	0.061 K	0.061		Neg
375	Living	1	(GX)	R-Sid	Closet Door	Aluminum	White	Good	0.000 K	0.000		Neg
375	Living	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	-0.032 K	0.073		Neg
375	Living	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.109 K			
375	Living	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.102 K			

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Lab 1.000 mg /cm2

Total Assays Reported

50

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
375	Living	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.113 K			
375	Living	1	(GX)	Ceilin	Ceiling	Sheetrock	White	Good	0.276 K	0.276		Neg
375	Bedroom	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.036 K	0.083		Neg
375	Bedroom	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.074 K			
375	Bedroom	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	-0.032 K			
375	Bedroom	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.252 K			
375	Bedroom	2	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.000 K	0.111		Neg
375	Bedroom	2	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.219 K			
375	Bedroom	2	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.045 K			
375	Bedroom	2	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.179 K			
375	Bedroom	3	(GX)	Front	Interior Wall	Sheetrock	White	Good	-0.204 K	0.183		Neg
375	Bedroom	3	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	0.356 K			
375	Bedroom	3	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.453 K			
375	Bedroom	3	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.126 K			
375	Bedroom	1	(GX)	Ceilin	Ceiling	Sheetrock	White	Good	0.153 K	0.153		Neg
375	Bedroom	2	(GX)	Front	Interior Door	Wood	Brown	Stain	-0.159 K	-0.159		Neg
375	Bedroom	2	(GX)	Front	Interior Door	Wood	White	Good	0.074 K	0.074		Neg
375	Bath - Full	1	(GX)	R-Sid	Interior Wall	Sheetrock	Brown	Good	0.155 K	0.155		Neg
375	Bath - Full	1	(GX)	R-Sid	Backsplash	Tile	White	Good	0.079 K	0.079		Neg
375	Kitchen	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	-0.102 K	-0.138		Neg
375	Kitchen	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	-0.218 K			

independent Special Safety evaluations,
iS2e, inc.
10408 City Lights Dr., NE
Albuquerque NM 87111-7536

Single Family HUD Data Sheet

Customer: US Fish & Wildlife Serv.
7333 W. Jefferson Ave.
Lakewood, CO 80235

Project Name: Inks Dam NFH
Route 2
Burnet, TX 78611

Site Name: Qtrs 73
1961; 1025ft2.

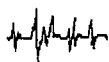
Action Level 1.000 mg /cm2

Lab 1.000 mg /cm2

Total Assays Reported

50

Map #	Room Tested	#	Grp	Wall	Component	Substrate	Paint Color	Paint Cond	K-Shell mg/cm2	Average	Lab	Result
375	Kitchen	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	-0.196 K			
375	Kitchen	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	-0.035 K			
375	Kitchen	1	(GX)	Rear	Kitchen	Wood	White	Good	0.234 K	0.234		Neg
375	Util/Laundr	1	(GX)	Rear	Door Jamb	Wood	White	Good	0.001 K	0.001		Neg
375	Util/Laundr	1	(GX)	Floor	Floor -	Tile	White	Good	-0.266 K	-0.266		Neg
375	Util/Laundr	1	(GX)	Front	Interior Wall	Sheetrock	White	Good	0.247 K	0.157		Neg
375	Util/Laundr	1	(GX)	L-Sid	Interior Wall	Sheetrock	White	Good	-0.137 K			
375	Util/Laundr	1	(GX)	Rear	Interior Wall	Sheetrock	White	Good	0.397 K			
375	Util/Laundr	1	(GX)	R-Sid	Interior Wall	Sheetrock	White	Good	0.122 K			



ASSAIGAI ANALYTICAL LABORATORIES, INC.

7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood Dr., Suite N • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2555

Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-B	see footnote

IS2E, INC.

attn: BOB KNOWLES

10408 CITY LIGHTS DR., NE

ALBUQUERQUE, NM 87111

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: IS2E, INC.

Project: 0009048 002500050003

William P. Blava
William P. Blava, President of Assaigai Analytical Laboratories, Inc.

Client Sample ID **FLOORS X 1 (FNT)** Sample Matrix **D** Sample Collected **08/30/00 13:00:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-01A		SW846 3050A/7000 series AA-FL							
M001003	MW.2000.1323-16	7439-92-1	Lead	5.0	ug/ft2	1	5		08/08/00

Client Sample ID **FLOORS X 1 (REAR)** Sample Matrix **D** Sample Collected **08/30/00 13:10:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-02A		SW846 3050A/7000 series AA-FL							
M001003	MW.2000.1323-17	7439-92-1	Lead	ND	ug/ft2	1	5		08/08/00

Client Sample ID **W-SILLS X 1 (DR)** Sample Matrix **D** Sample Collected **08/30/00 13:20:00**

QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-03A		SW846 3050A/7000 series AA-FL							
M001003	MW.2000.1323-20	7439-92-1	Lead	13.9	ug/ft2	1	12.8		08/08/00



Assaigai Analytical Laboratories, Inc.

Certificate of AnalysisClient: **IS2E, INC.**Project: **0009048 002500050003**

Client Sample ID	W-SILLS X 1 (BDRM #1)	Sample Matrix	D	Sample Collected	08/30/00 13:30:00
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QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-04A		SW846 3050A/7000 series AA-FL							
M001003	MW.2000.1323-21	7439-92-1	Lead	ND	ug/ft2	1	12.4		09/08/00

Client Sample ID	W-SILLS X 1 (BDRM #2)	Sample Matrix	D	Sample Collected	08/30/00 13:40:00
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QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-05A		SW846 3050A/7000 series AA-FL							
M001003	MW.2000.1323-22	7439-92-1	Lead	ND	ug/ft2	1	11.2		09/08/00

Client Sample ID	SOIL-DL	Sample Matrix	S	Sample Collected	08/30/00 13:50:00
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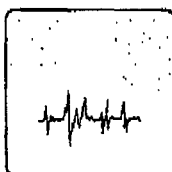
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-06A		SW846 3050A/7000 series AA-FL							
M001004	MW.2000.1325-13	7439-92-1	Lead	14.5	ppm	1	5		09/08/00

Client Sample ID	SOIL-YD	Sample Matrix	S	Sample Collected	08/30/00 14:00:00
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QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Code	Run Date
0009048-07A		SW846 3050A/7000 series AA-FL							
M001004	MW.2000.1325-14	7439-92-1	Lead	50.2	ppm	1	5		09/08/00

*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ***

*** ND = Not detected: less than the sample specific Detection Limit. Results relate only to the items tested. ***


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127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 562-2558

IS2E, INC.

 attn: **BOB KNOWLES**
**10408 CITY LIGHTS DR., NE
ALBUQUERQUE, NM 87111**
Explanation of codes

B	analyte detected in Method Blank
E	result is estimated
H	analyzed out of hold time
N	tentatively identified compound
S	subcontracted
1-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

 Client: **IS2E, INC.**

 Project: **0009027 002500XX SERIES**

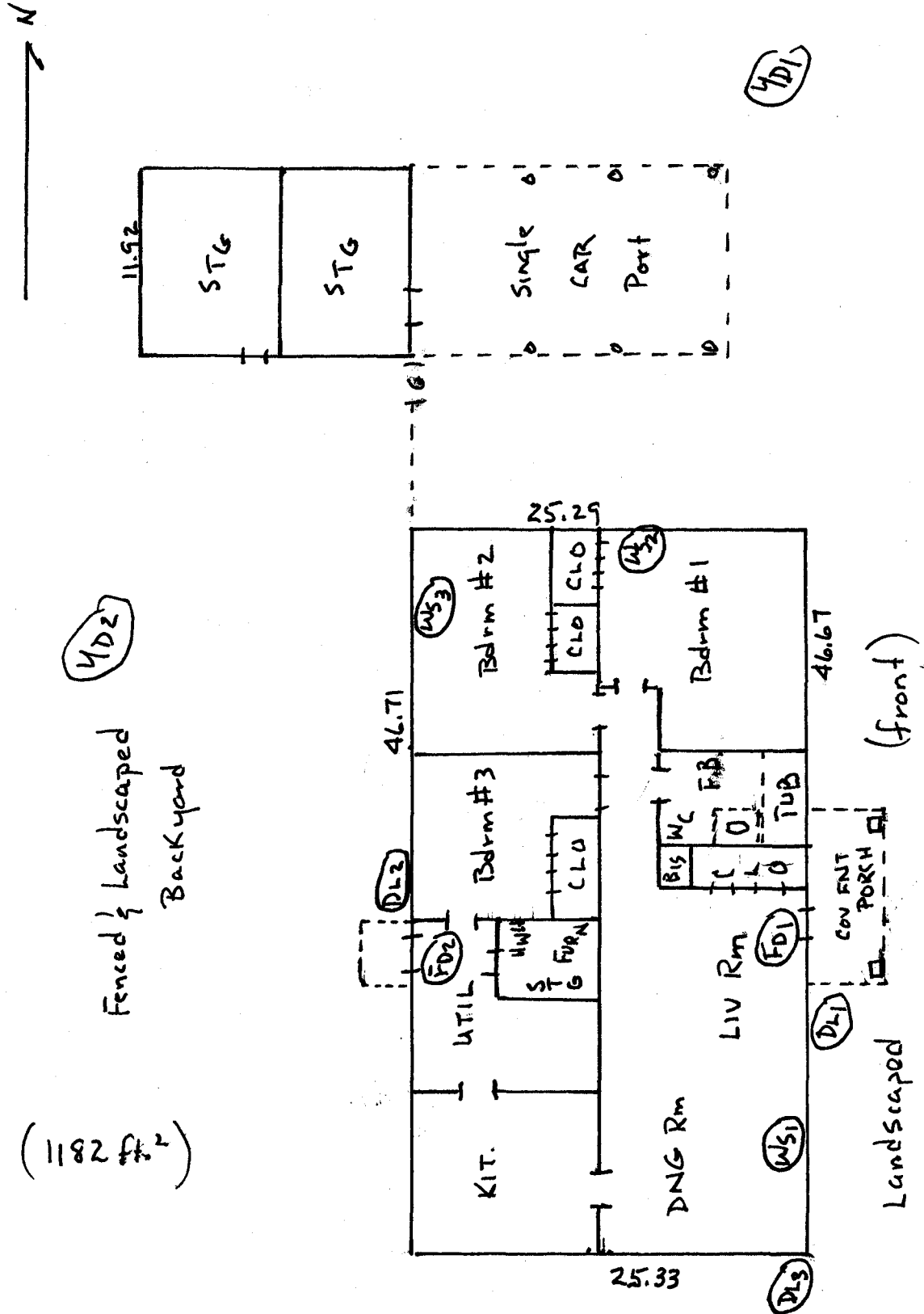
 William P. Biava: President of Assaigai Analytical Laboratories, Inc.

Client Sample ID	2508 INKS DAM NFH				Sample Matrix	W	Sample Collected	08/30/00 09:00:00
QC Group	Run Sequence	CAS #	Analyte	Result	Units	Dilution Factor	Detection Limit	Run Code Date
0009027-01A		EPA 200.8 ICP-MS						
M001008	MW.2000.1342-18	7439-92-1	Lead	2.0	ug / L	1	1	08/12/00

*** Sample specific Detection Limit is determined by multiplying the sample Dilution Factor by the listed Reporting Detection Limit. ***

*** ND = Not detected; less than the sample specific Detection Limit. Results relate only to the items tested. ***





RA

Inks Dam NFH – Qtrs 73



Exterior Front



Exterior Front



Exterior Left



Exterior Left



Exterior Back



Exterior Right

Inks Dam NFH – Qtrs 73



Carport



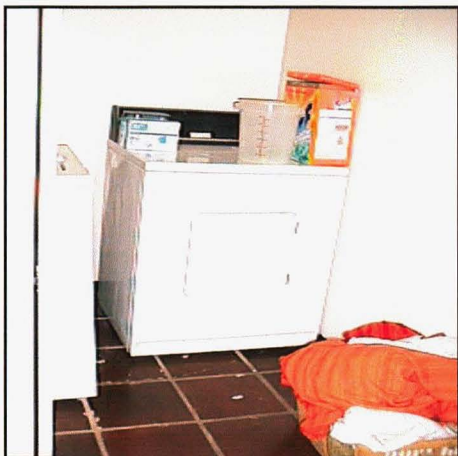
Carport



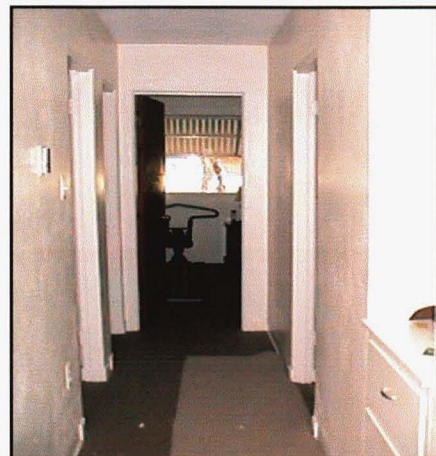
Living Room



Kitchen



Utility



Hallway

Inks Dam NFH – Qtrs 73



Bathroom



Bedroom 1



Bedroom 2



Bedroom 3