

RADIOLOGIC AND ENGINEERING ASSESSMENT

FOR

DOE ID NO.: GJ-03491-RS  
ADDRESS: 2028 LINDA LANE

SEPTEMBER 1985

FOR

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT OFFICE

ALBUQUERQUE OPERATIONS OFFICE

DEPARTMENT OF ENERGY

BY

BENDIX FIELD ENGINEERING CORPORATION  
P.O. Box 1569  
Grand Junction, Colorado 81502

APPROVED BY

*Michael H. Tucker*  
M. TUCKER  
DOE PROJECT ENGINEER

DATE

*September 10, 1985*

REA03491:REA-712

8509270187 850912  
PDR WASTE PDR  
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## 1.0 EXECUTIVE SUMMARY

### 1.1 Introduction

The location, DOE ID No. GJ-03491-RS, is a single-family residence located at 2028 Linda Lane, Grand Junction, Colorado.

The purpose of this assessment is to evaluate the extent of uranium millsite contamination at this property. This assessment includes recommended remedial action, estimated volume of material to be removed, and estimated cost of the proposed action.

### 1.2 Evaluation and Recommendation

The action recommended is the removal of contaminated material and restoration of the property to its original condition. The identified residual radioactive material found on this property is tailings; the estimated volume is: exterior, 18 cu. yd.; interior, 0 cu. yd.

Estimated cost to perform remedial action is \$2,220. The property will take approximately 7 days to complete.

## 2.0 PROPERTY DESCRIPTION

### 2.1 General Description

Address: 2028 Linda Lane, Grand Junction, Colorado

Zoning: Residential (RSF-8)

Lot Size: Approximately 9,750 sf (0.22 acres)

Legal Description: Lot 10, Block 1, Linda Lane Subdivision Amended, City of Grand Junction, County of Mesa, State of Colorado.

Point of Reference: This property is located approximately 3 mile(s) north of the State of Colorado Tailings Repository. Appendix Figure 2.1 shows the property location relative to its surroundings.

Utilities: Utility locations are shown in Appendix Figure 2.2.

Electrical:	Overhead/Underground
Gas:	Underground
Telephone:	Overhead
Sewer:	Underground
Water:	Underground
Cable TV:	Overhead

Bordering Properties:

North:	Single-family residence
South:	Single-family residence
East:	Vacant Lot
West:	Linda Lane

### 2.2 Existing Facilities and Structures

Primary Structure:

Type:	Single-story residence
Size:	Approximately 1,242 sf
Construction Date:	1963
Construction:	Wood-frame with concrete floor
Foundation:	Monolithic concrete slab-on-grade
Footing Depth:	Not Determined
Basement:	None
Crawl Space:	None
Condition:	Good

Other Structures:

Type:	Carport
Size:	Approximately 230 sf
Construction:	Wood-frame

Foundation: Concrete slab-on-grade  
Condition: Good

Type: Covered patio  
Size: Approximately 230 sf  
Construction: Wood-frame  
Foundation: Concrete slab-on-grade  
Condition: Good

Type: Storage  
Size: Approximately 164 sf  
Construction: Wood-frame  
Foundation: Concrete slab-on-grade  
Condition: Good

Type: Shed  
Size: Approximately 63 sf  
Construction: Prefabricated metal  
Foundation: None  
Condition: Good

General Remarks:

Structures, utilities, landscaping, and other special features of this property are included in Appendix Figure 2.2.

Historical Data:

This structure is not over 50 years old. Therefore, it does not meet the eligibility criteria for consideration of inclusion on the National Register of Historic Places.

### 3.0 RADIOLOGIC SURVEY

#### 3.1 Introduction

Radiologic data were collected by Bendix at DOE ID No. GJ-03491-RS on August 9, 1985. Data collection methods were performed in accordance with procedures fully described in the Radiologic Support Operations Procedures Manual GJ-07(84) (Bendix Field Engineering Corporation, 1984). These data were evaluated to determine the areal and vertical extent of uranium mill tailings contamination at this property as well as any other contaminated material that may have originated from the millsite.

A review of the historical information available for this property was conducted to determine the areas of potential contamination identified during previous radiologic assessments.

The Bendix radiologic survey was designed to investigate the entire property, with emphasis on previously identified areas of contamination. Conclusions based upon data analyses are discussed in Section 3.5, Extent of Contamination. Photocopies of the Official Survey Report, team leader notes, deconvolution graphs, and Exterior Gamma Scan map are included in the Appendix (Section 6.0).

#### 3.2 Gamma Exposure-Rate Surveys

##### 3.2.1 Exterior Findings

Background Readings: 14 to 16 uR/h  
Highest Outside Gamma Reading (HOG): 40 uR/h

Exterior radium-concentration measurements are presented in Appendix Table 3.1. Exterior exposure-rate survey results are shown in Appendix Figure 3.1.

##### 3.2.2 Interior Findings

Background Readings: 13 to 16 uR/h  
Highest Inside Gamma Reading (HIG): 16 uR/h

Interior gamma exposure-rate measurements are summarized in Appendix Table 3.2.

#### 3.3 Boreholes, Soil Samples, and Other Measurements

Areas which displayed elevated gamma levels were further investigated; the locations and types of these investigations are shown in Appendix Figure 3.2. Data from these investigations are included in Appendix Table 3.1.

#### 3.4 Radon/Radon Daughter Concentration (RDC)

The working level was not assessed by CDH. No RDC measurements were taken by Bendix.

### 3.5 Extent of Contamination

Appendix Figure 3.3 shows identified areas and estimated depths of contamination on this property, based on assessments of all measurements taken. As noted in this figure, areas recommended for remedial action that contain identified residual radioactive materials are:

- (Area A) Surface Material: Concrete  
Direction From Primary Structure: West  
Total Depth of Contamination: 9 inches  
Other (height or thickness): 3-inch-thick concrete  
Comments: This is a city sidewalk.  
Approximate Square Footage: 198
- (Area B) Surface Material: Grass  
Direction From Primary Structure: Northwest  
Total Depth of Contamination: 6 inches  
Comments: This area contains underground sprinklers.  
Approximate Square Footage: 80
- (Area C) Surface Material: Soil  
Direction From Primary Structure: North  
Other Directions: East of Area B  
Total Depth of Contamination: 6 inches  
Comments: The gas line underlies this area.  
Approximate Square Footage: 15
- (Area D) Surface Material: Soil  
Direction From Primary Structure: North  
Total Depth of Contamination: 6 inches  
Approximate Square Footage: 72
- (Area E) Surface Material: Grass  
Direction From Primary Structure: West  
Other Directions: Adjacent to Area B  
Total Depth of Contamination: 9 inches  
Comments: This area contains underground sprinklers.  
Approximate Square Footage: 195
- (Area F) Surface Material: Grass  
Direction From Primary Structure: West  
Other Directions: Adjacent to Area E  
Total Depth of Contamination: 6 inches  
Comments: This area contains underground sprinklers.  
Approximate Square Footage: 55
- (Area G) Surface Material: Soil  
Direction From Primary Structure: East  
Total Depth of Contamination: 6 inches  
Approximate Square Footage: 20

(Area H) Surface Material: Concrete  
Direction From Primary Structure: East  
Other Directions: Patio  
Total Depth of Contamination: Estimated to be 9 inches  
Other (height or thickness): 3-inch-thick concrete  
Comments: This depth is an estimate based on data from  
Area G.  
Approximate Square Footage: 36

#### 4.0 RECOMMENDED REMEDIAL ACTION

##### 4.1 Decontamination and Restoration

The recommended remedial action for this property, DOE ID No. GJ-03491-RS, includes removal of all areas identified as containing radioactive material (as discussed in Section 3.5 and shown in Appendix Figure 3.3) and transport of removed material to the disposal site.

After remedial action is completed, the areas involved will be restored to original condition in accordance with the Bendix drawings, Vicinity Properties General Construction Specification (Bendix Field Engineering Corporation, 1984), and Statement of Work for Construction Subcontractor.

Dislocation of the occupants will not be required for this remedial action.

##### 4.2 Evaluation of Recommended Remedial Action

Volume calculations of the areas included for remedial action are presented in Appendix Table 4.1. Cost estimates are presented in Appendix Table 4.2.

Estimated cost of remedial action is \$2,220.

This remedial action will result in removal of the identified residual radioactive materials.

There is no owner preference with respect to remedial action and no legal or other complications are foreseen at this time.

## 5.0 REFERENCES

ARIX, A Professional Corporation, Procedures Manual for the Grand Junction Remedial Action Program, for Colorado Department of Health, Radiation Control Division, and the U.S. Department of Energy, 1983.

Bendix Field Engineering Corporation, Procedures Manual Radiologic Support Operations Grand Junction Vicinity Properties, (GJ-07), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

Bendix Field Engineering Corporation, Engineering, Construction, and Land Support Manual Grand Junction Vicinity Properties Project, (GJ-08), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

Bendix Field Engineering Corporation, Grand Junction Vicinity Properties Operating Manual, (GJ-16) for U.S. Department of Energy, Nuclear Energy Programs, Division of Remedial Action Projects, UMTRA, 1984.

Bendix Field Engineering Corporation, Vicinity Properties General Construction Specification, for U.S. Department of Energy, Nuclear Energy Programs, Division of Remedial Action Projects, UMTRA, 1984.

Bendix Field Engineering Corporation, Environmental Assessment of Preliminary Cleanup Activities at Offsite Properties Contaminated by Tailings from the Grand Junction Inactive Uranium Millsite, (GJ-04), for U.S. Department of Energy, UMTRA Project Office, Albuquerque Operations, Albuquerque, New Mexico, 1983.

U.S. Department of Energy, Programmatic Memorandum of Agreement (DOE No. DE-GM04-84AL28460) between the U.S. Department of Energy, the Advisory Council on Historic Preservation, and the Colorado State Historic Preservation Officer, for UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

U.S. Department of Energy, Vicinity Properties Management and Implementation Manual, for UMTRA Project Office, Albuquerque Operations Office, Albuquerque, New Mexico, 1984.

U.S. Environmental Protection Agency, Standards for Remedial Action at Inactive Uranium Processing Sites (40 CFR Part 192), Washington, D.C., 1983.

## 6.0 APPENDIX

This Appendix contains the following:

Appendix Tables:

Table 3.1	Radium Concentrations at Exterior Locations
Table 3.2	Summary of Interior Gamma Exposure Rates
Table 4.1	Area and Volume Calculations
Table 4.2	Estimated Cost of Decontamination and Restoration

Appendix Figures:

Figure 2.1	Vicinity Map
Figure 2.2	Site Plan
Figure 3.1	Exterior Exposure Rates
Figure 3.2	Exterior Sample Locations
Figure 3.3	Exterior Estimated Extent of Contamination

Official Survey Report

Team Leader Notes

Deconvolution Graphs (Apparent Radium-226 Concentration)

Exterior Gamma Scan Map

## Radium Concentrations at Exterior Locations

DOE ID #GJ-03491-RS

2028 Linda Lane

Page 1 of 3

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
1	140210	00	DS	5.2		*	Southwest of the primary structure
2	140230	00	DS	6.7		*	Southwest of the primary structure
3	140255	00	DS	12.7		*	Sidewalk
		03	TC	9.2		*	West of primary structure
		06	TC	7.9		*	DC = 9 inches
		09	TC	5.9		*	Based on the deconvolution graph
		12	TC	4.9		*	
		15	TC	4.4		*	
		18	TC	4.2		*	
		21	TC	3.9		*	
		24	TC	3.9		*	
		27	TC	4.0		*	
		30	TC	3.9		*	
		33	TC	3.8		*	
		36	TC	3.8		*	
		39	TC	3.8		*	
4	143212	00	DS	<1.0		*	Southwest of primary structure
		06	DS	<1.0		*	
5	152252	00	DS	1.3		*	West of primary structure
		06	DS	1.4		*	
6	160240	00	DS	3.5		*	West of primary structure
		06	DS	2.0		*	
7	165255	00	DS	11.7		*	West of primary structure
		06	DS	3.4		*	DC = 9 inches
		03	TC	9.0		*	Based on the deconvolution graph
		06	TC	7.4		*	
		09	TC	5.9		*	
		12	TC	5.0		*	
		15	TC	4.7		*	
		18	TC	4.5		*	
		21	TC	4.3		*	
		24	TC	4.2		*	
		27	TC	4.2		*	
		30	TC	4.2		*	
		33	TC	4.1		*	

## Radium Concentrations at Exterior Locations

DOE ID #GJ-03491-RS

2028 Linda Lane

Page 2 of 3

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
8	166264	00	DS	3.0		*	Northwest of the primary structure
		03	TC	4.3		*	
		06	TC	4.4		*	DC = 6 inches Based on all available data
		09	TC	4.3		*	
		12	TC	4.2		*	
		15	TC	4.1		*	
		18	TC	4.2		*	
		21	TC	4.2		*	
		24	TC	4.1		*	
		27	TC	4.1		*	
		30	TC	4.2		*	
		33	TC	4.1		*	
		36	TC	4.1		*	
9	171261	00	DS	3.0		*	Gas line
		12	DS	1.7		*	Top of gas line
10	176231	03	TC	3.4		*	Background
		06	TC	3.6		*	West side of
		09	TC	3.7		*	primary structure
		12	TC	3.8		*	DC = 0 inches
		15	TC	3.9		*	
		18	TC	3.9		*	
		21	TC	3.9		*	
		24	TC	4.0		*	
		27	TC	3.9		*	
		30	TC	4.0		*	
		33	TC	3.9		*	
		36	TC	3.7		*	
		39	TC	3.7		*	
		42	TC	3.7		*	
		45	TC	3.8		*	
		48	TC	3.7		*	
		51	TC	3.8		*	
		54	TC	3.8		*	
11	183264	00	DS	1.6		*	North of primary structure
		06	DS	1.1		*	
12	192261	00	DS	10.6		*	North of primary structure
		06	DS	2.1		*	
13	206262	00	DS	2.2		*	North of primary structure
		06	DS	2.1		*	

## Radium Concentrations at Exterior Locations

DOE ID #GJ-03491-RS

2028 Linda Lane

Page 3 of 3

Loc #	Grid Location	Depth (in.)	Meas. Type	In Situ Ra-226 (pCi/g)		Chem Ra-226 (pCi/g)	Comments
				Tot. Ct	Spectr.		
14	210245	00	DS	3.1		*	In flower bed
		06	DS	2.0		*	East of primary
15	211227	00	DS	2.6		*	East of primary structure on patio
16	222260	00	DS	1.3		*	Northeast of primary structure

Measurement Types: GB = GAD-6 Borehole  
GS = GAD-6 Surface  
DS = Delta Scintillometer  
TC = Total Count Borehole  
SS = Soil Sample  
BH = Combined GAD-6 and Total Count Borehole

Notes: DC = Depth of Contamination  
\* = No Soil Sample Taken  
[n] = Reading Taken n-Inches Above Floor or Ground  
Date of Survey = 08-09-85  
Team Leader = VJH

Table 3.2

## Summary of Interior Gamma Exposure Rates

DOE ID No. GJ-03491-RS

2028 Linda Lane

Page 1 of 1

Location	Number of Readings Taken at Waist Level	Range at Waist Level (uR/h)	Mean at Waist Level (uR/h)	Number of Readings Taken at Surface	Range at Surface (uR/h)	Mean Surface (uR/h)
Ground Floor	*	*	*	*	13-16	*
Storage Space	*	*	*	*	13-16	*
Shed	*	*	*	*	13-16	*

\* A walking gamma scan was performed to confirm the absence of interior contamination.

Table 4.1  
Area and Volume Calculations  
DOE ID No. GJ-03491-RS

Page 1 of 1

<u>AREA</u>	<u>CALCULATIONS(ft)</u>	<u>SF</u>	<u>DEPTH(ft)</u>	<u>CF</u>	<u>CUBIC YARDS</u>
EXTERIOR					
Concrete					
A	3 x 66 =	198	x 0.3 =	59	
H	9 x 4 =	36	x 0.3 =	11	
Volume of Concrete				= 70	= 70/27 = 3
Contaminated Fill					
A	3 x 66 =	198	x 0.5 =	99	
B	16 x 5 =	80	x 0.5 =	40	
C	5 x 3 =	15	x 0.5 =	8	
D	18 x 4 =	72	x 0.5 =	36	
E	15 x 13 =	195	x 0.8 =	156	
F	11 x 5 =	55	x 0.5 =	28	
G	5 x 4 =	20	x 0.5 =	10	
H	9 x 4 =	36	x 0.5 =	18	
Volume of Fill				= 395	= 395/27 = 15
TOTAL VOLUME - EXTERIOR					= 18

See Appendix Figure 3.3 For Areas

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Table 4.2  
Estimated Cost of Decontamination and Restoration  
DOE ID No. GJ-03491-RS

Page 1 of 1

EXTERIOR

Remove identified residual radioactive material		\$	
12 cy @ \$14.50/cy (machine-open)			174
3 cy @ \$44/cy (manual-open)			132

Remove/replace concrete			
234 sf @ \$3/sf			702

Sawcut concrete			
81 lf @ \$1/lf			81

Replace areas with compacted roadbase			
4 cy @ \$11.50/cy			46

Replace areas with topsoil			
11 cy @ \$9.50/cy			105

Remove/replace wood deck			
Lump sum			100

Replace bushes			
Lump sum			70

		\$	1,410
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TOTAL EXTERIOR			0
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TOTAL INTERIOR			100
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		\$	1,510
--	--	----	-------

SUBTOTAL			76
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		\$	1,586
--	--	----	-------

CONTINGENCY @ 5%			634
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		\$	2,220
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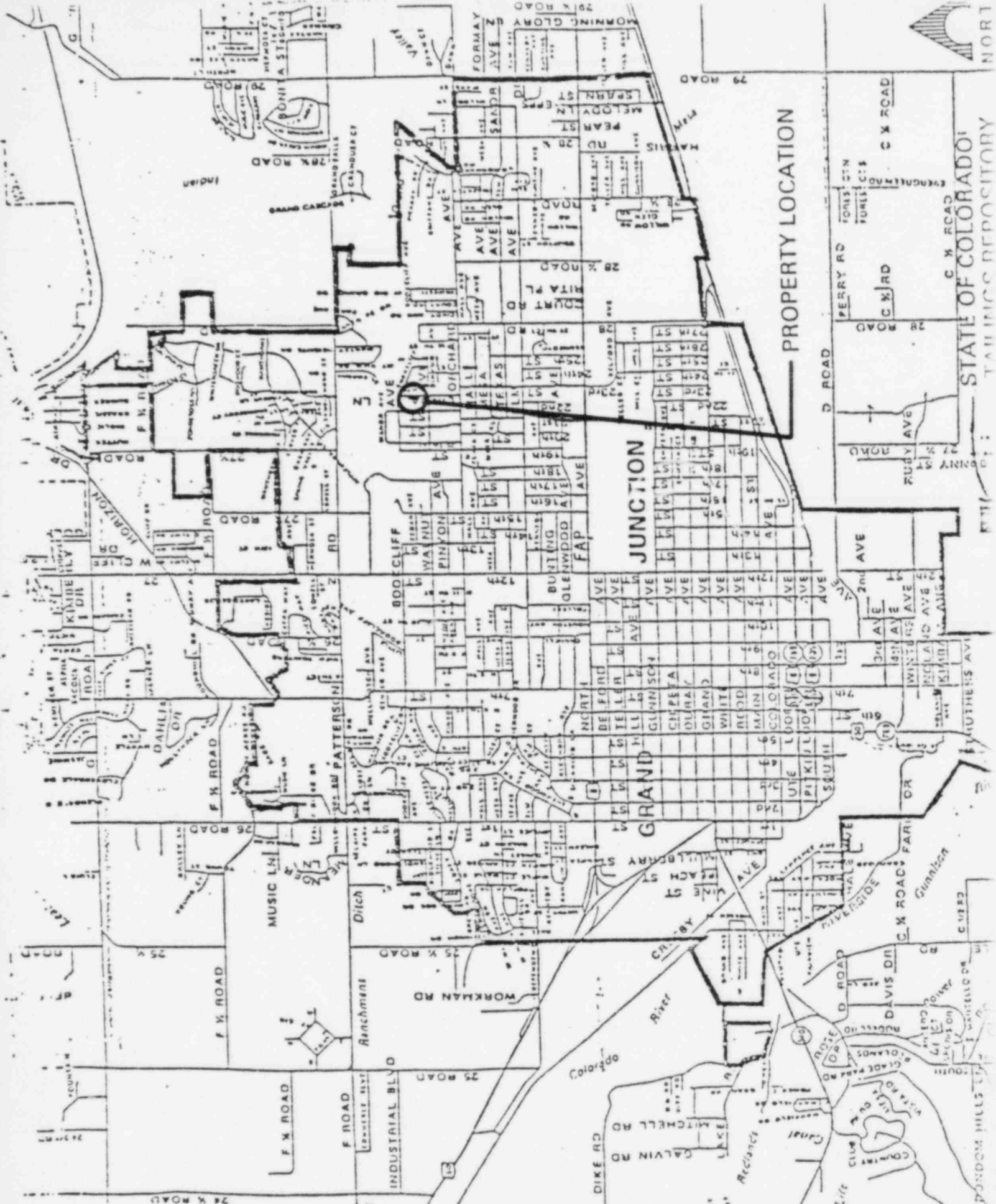



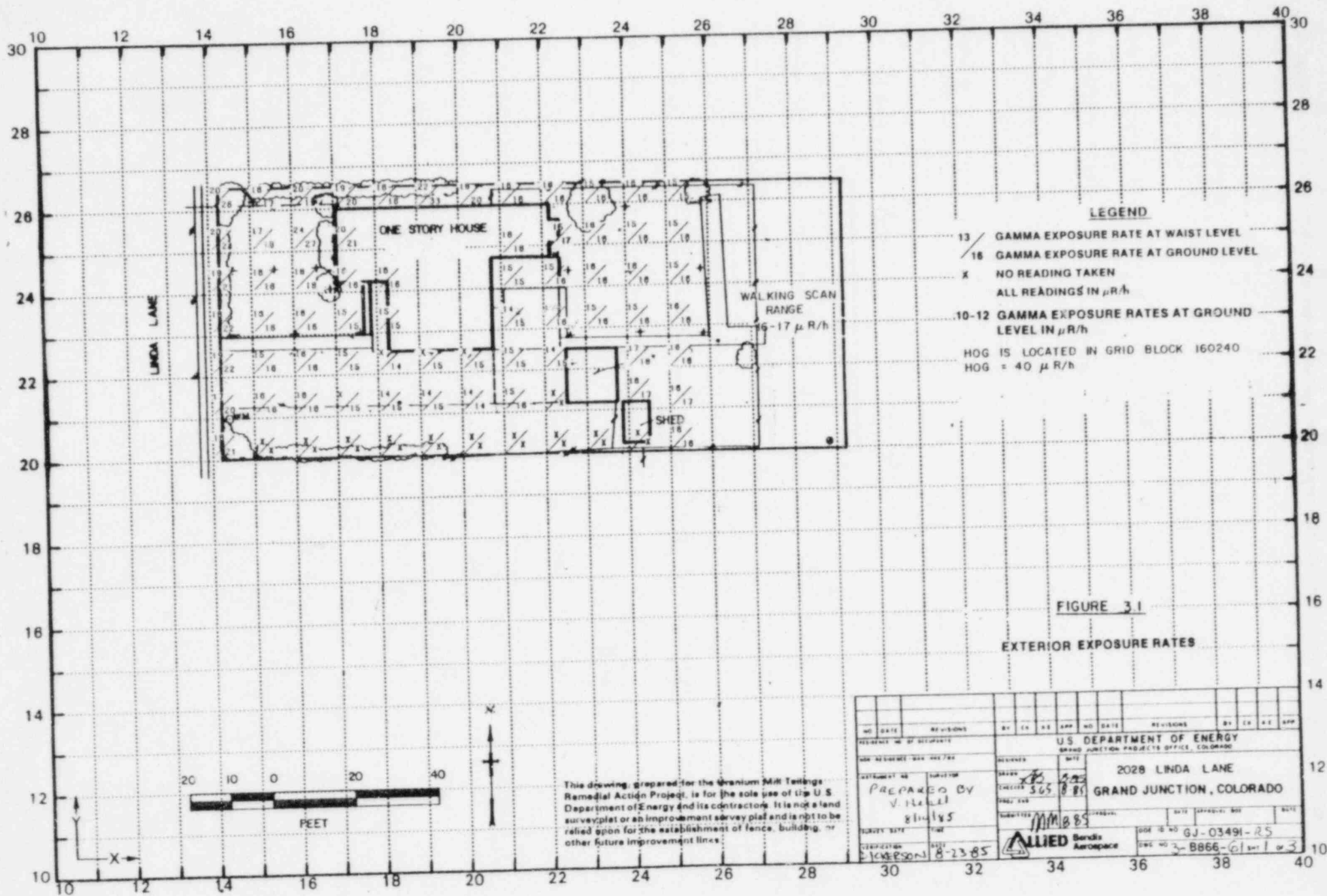
FIGURE 2.1  
VICINITY MAP

LINDA LANE

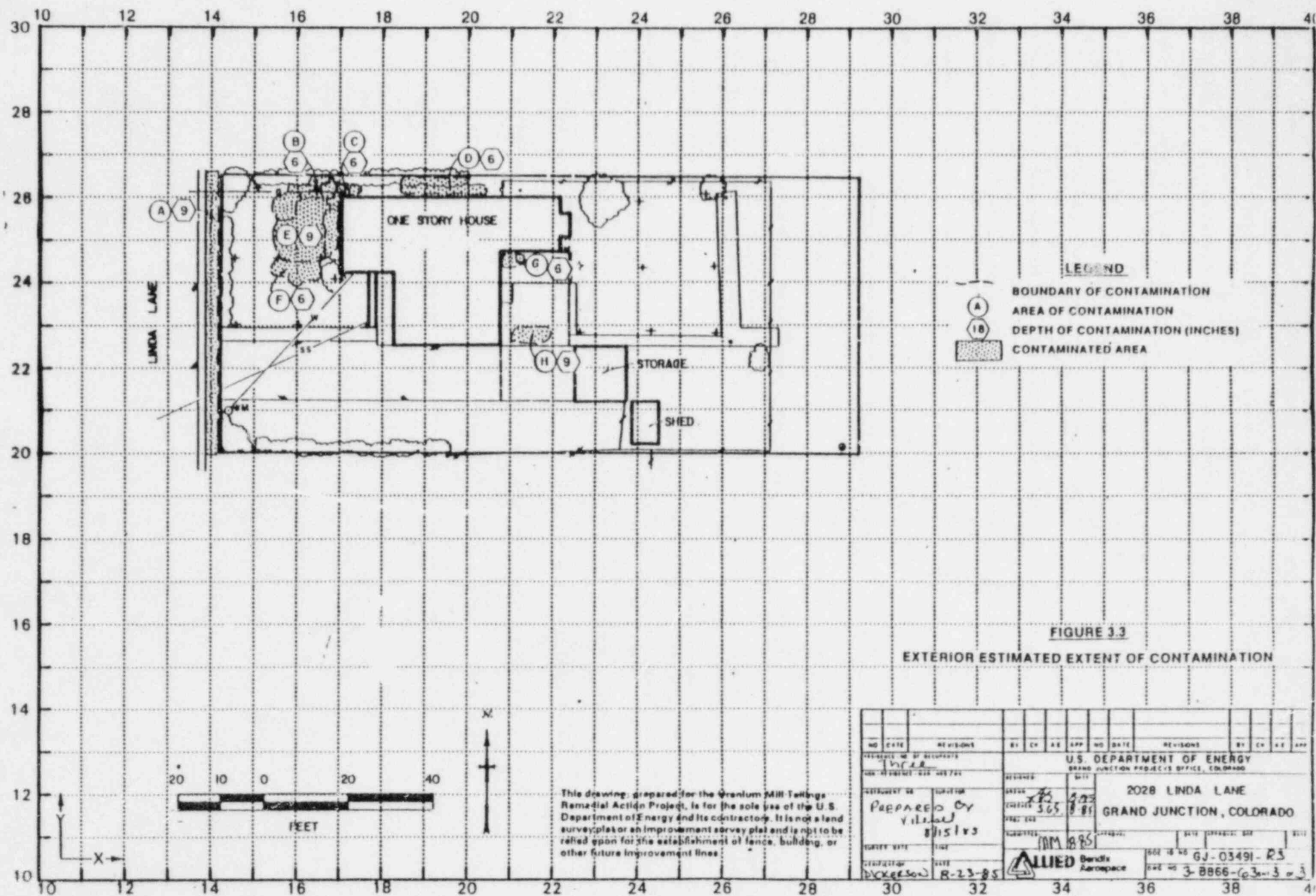


A graphic scale bar labeled "FEET" with markings at 0, 5, and 10.

U.S. DEPARTMENT OF ENERGY		DOE ID NO.
GRAND JUNCTION PROJECT OFFICE, COLORADO		GJ-05491R
ADDRESS 2028 LINDA LANE		 Allied Nevada Nevada Power Corporation Grand Junction Operations
GRAND JUNCTION, COLO.		
SURV WHL/B285	DRAFT TJ/B285	CR 44-6-85
DRAWING NO. 30 RLL		SHEET OF 1







3/85

DOE ID NO. GJ-03491-RS

Date 8-9-85

U.S. DEPARTMENT OF ENERGY  
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT  
GRAND JUNCTION VICINITY PROPERTIES

Official Survey Report

Property Address 2028 Linda Lane

Property Owner William McCurry

Address of Owner (if different from above)

Report Prepared By Vickie Hebel

I. PRESENCE/ABSENCE OF RESIDUAL RADIOACTIVE MATERIALS

☐ 1 No evidence of residual radioactive material on surveyed property.

☒ 1 Residual radioactive materials found at the following locations:

☒ 1 In open areas.

☒ 1 Under or around exterior improvements.

☐ 1 Under or around a typically nonoccupied structure.

☒ 1 Under or around a typically occupied structure.

II. RESULTS OF RADIOLOGIC ASSESSMENT

☐ 1 Levels of radiation from residual radioactive materials, if any, do not exceed EPA Standards and no action is required under the Uranium Mill Tailings Remedial Action Project.

☒ 1 Levels of radiation from residual radioactive materials exceed EPA Standards such that Remedial Action is recommended and will be accomplished, with your consent, as soon as budget and schedule permit.

cc:

G. A. Franz, III, GJ/CDE

J. Themelis, Mgr. UMTRA Proj. Off.

HIG = 16 uR/h  
HOG = 40 uR/h

MEMORANDUM

ALLIED Bendix  
Aerospace

Bendix Field Engineering Corporation  
Grand Junction Operations  
Grand Junction, Colorado

Date: August 9, 1985

To: Files

From: Vickie Hebel

Subject: Team Leader Notes - GJ-03491-RS

Address: 2028 Linda Lane

Owner: William and Agnes McCurry

Occupancy: Three

Built: 1963

Team Members

V. Hebel (Team Leader)  
D. Fossey  
S. Larsen

T. Unrein  
T. Flores

Instruments

See Equipment Summary sheet

The Colorado Department of Health (C.D.H.) and Oak Ridge National Laboratory (ORNL) data indicated elevated gamma readings north and west of the primary structure. An exterior gamma scan confirmed these findings along with elevated readings east of the primary structure near the back patio.

All utility lines were located with the help of Mrs. McCurry. The sewer clean out is located in the planter on the west side of the primary structure.

Team Leader Notes  
Vickie Hebel  
GJ-03491-RS  
August 9, 1985  
Page 2

The interior gamma scan showed no elevated gamma readings inside the primary structure.

The scan of the storage shed showed intense elevated gamma readings, which we were able to pin-point to a certain box. Mrs. McCurry informed us that her husband collected certain rocks, some of these were ore. We removed the box to finish the scan, no elevated gamma readings were then found.

The house has no crawl space as stated, but is a slab-on-grade.

The concrete slabs east and south of the primary structure are two different pours. The patio on the east side showed elevated gamma readings. We were unable to core because the bearings went bad on the coring machine, and the patio was covered with outdoor carpet. The concrete south showed elevated gamma readings adjacent to the patio. These were determined to be shine. I called the owner for permission to conduct a revisit, but permission was denied.

We were unable to get to the foundation on the south side of the primary structure, as concrete and asphalt surrounded it.

No spillover contamination was noted.

Health and Safety arrived at 9:45 AM to perform a presite inspection.

The survey was completed at 1:00 PM.

All team members were alpha scanned before returning to the compound.

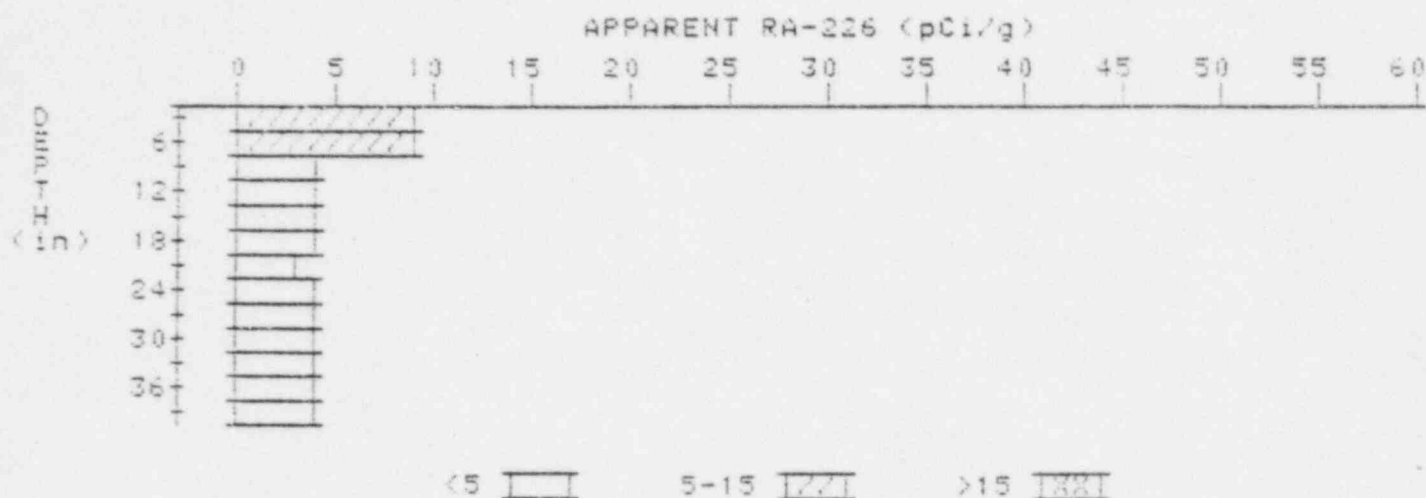
# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

3

PROPERTY NUMBER: GJ-03491-RS

HOLE NUMBER: 3

LOCATION: 140255



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	9.2	9.2
6	7.9	9.1
9	5.9	4.1
12	4.9	4.0
15	4.4	3.9
18	4.2	4.4
21	3.9	3.4
24	3.9	3.7
27	4.0	4.4
30	3.9	3.9
33	3.8	3.6
36	3.8	3.8
39	3.8	3.8

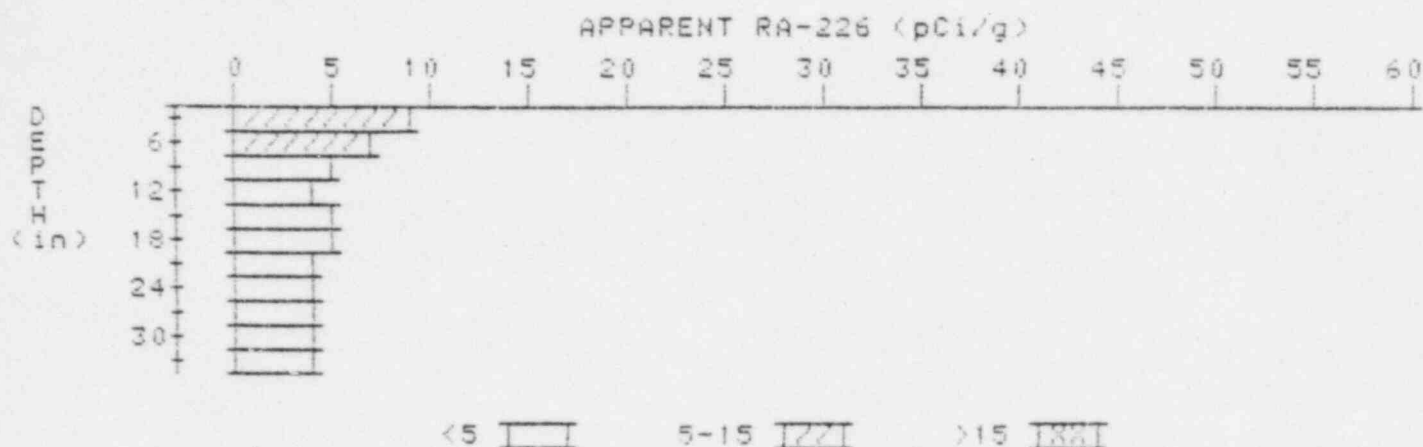
# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

7

PROPERTY NUMBER: GJ-03491-RS

HOLE NUMBER: 7

LOCATION: 165255



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	9.0	9.0
6	7.4	7.2
9	5.9	4.8
12	5.0	3.9
15	4.7	4.5
18	4.5	4.5
21	4.3	4.1
24	4.2	4.0
27	4.2	4.2
30	4.2	4.4
33	4.1	4.1

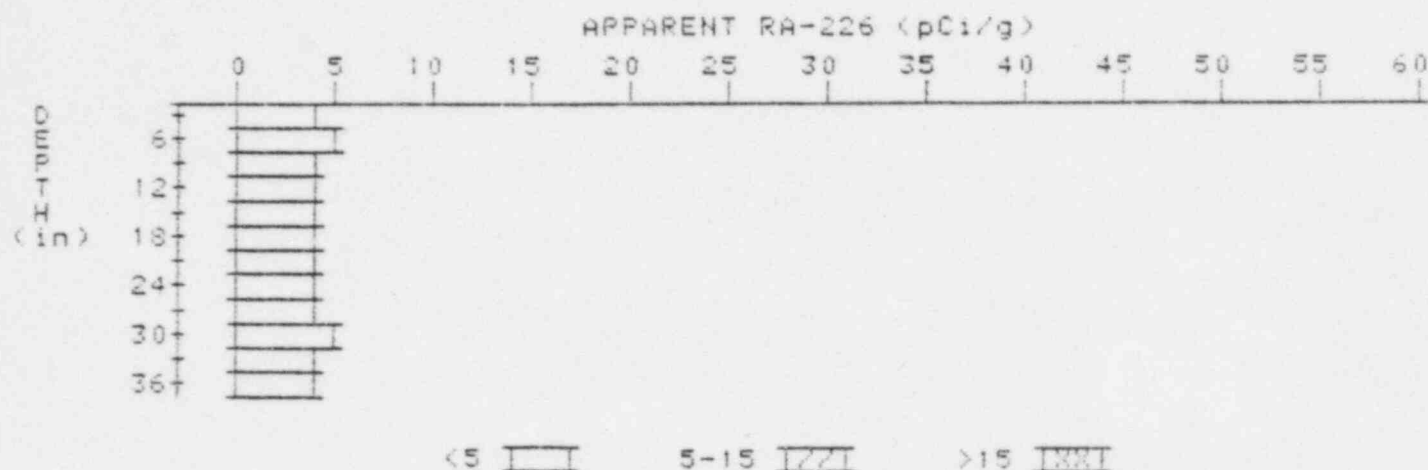
# APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

8

PROPERTY NUMBER: GJ-03491-RS

HOLE NUMBER: 3

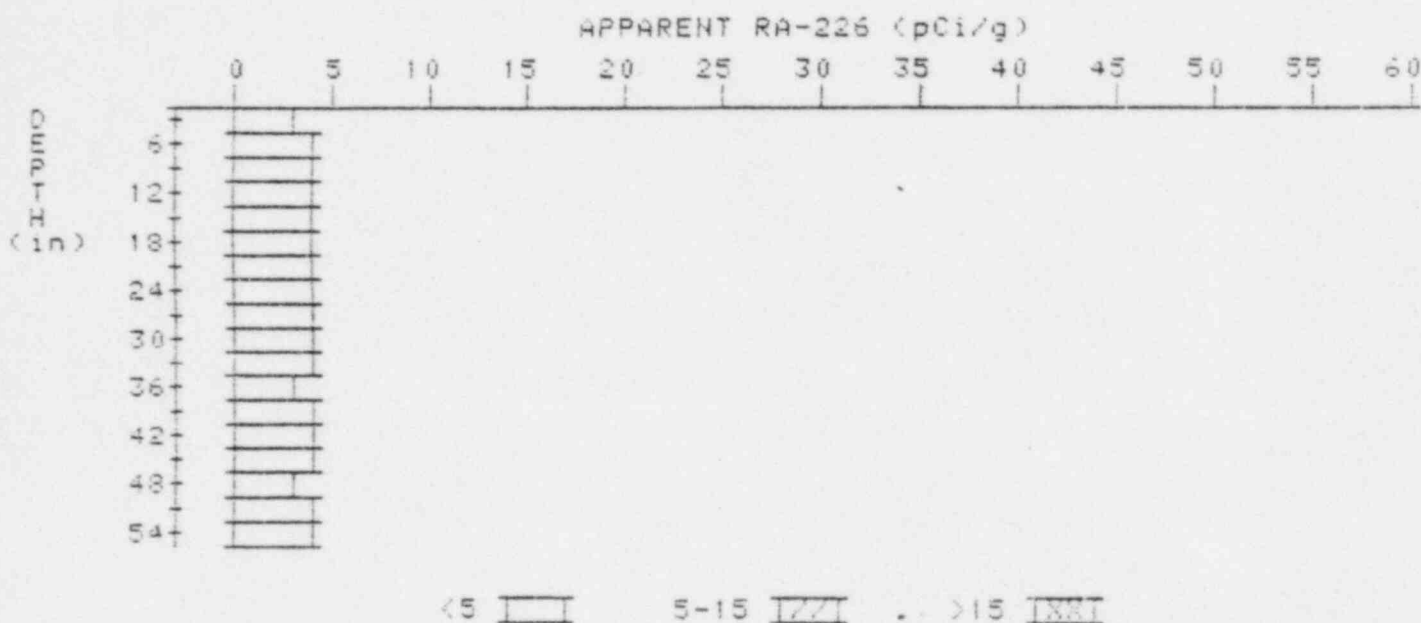
LOCATION: 166264



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	4.3	4.3
6	4.4	4.8
9	4.3	4.3
12	4.2	4.2
15	4.1	3.7
18	4.2	4.4
21	4.2	4.4
24	4.1	3.9
27	4.1	3.9
30	4.2	4.6
33	4.1	3.9
36	4.1	4.1

# APPARENT RADIUM-226 CONCENTRATION 10 DECONVOLUTION GRAPH

PROPERTY NUMBER: GJ-03491-RS  
HOLE NUMBER: 10  
LOCATION: 176231



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.4	3.4
6	3.6	3.8
9	3.7	3.7
12	3.8	3.8
15	3.9	4.1
18	3.9	3.9
21	3.9	3.7
24	4.0	4.4
27	3.9	3.8
30	4.0	4.4
33	3.9	4.1
36	3.7	3.3
39	3.7	3.7
42	3.7	3.8
45	3.8	4.2
48	3.7	3.6
51	3.8	4.0
54	3.8	3.8

