

RADIOLOGIC AND ENGINEERING ASSESSMENT

FOR

DOE ID NO.: GJ-03076-RS
ADDRESS: 2307 ORCHARD AVENUE

JUNE 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 K. Tucker
M. TUCKER

DOE PROJECT ENGINEER

DATE

June 18, 1985

REA03076:REA-509

8507080361 850618
PDR WASTE PDR
WM-54

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1.0 EXECUTIVE SUMMARY

1.1 Introduction

The location, DOE ID No. GJ-03076-RS, is a single-family residence located at 2307 Orchard Avenue, 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

It is recommended that no remedial action be performed and that a Property Completion Report be prepared for use in the DOE certification process. The identified residual radioactive material found on this property is tailings; the estimated volume is: exterior, 3 cu. yd.; interior, 0 cu. yd.

2.0 PROPERTY DESCRIPTION

2.1 General Description

Address: 2307 Orchard Avenue, Grand Junction, Colorado

Zoning: Residential (RSF-8)

Lot Size: Approximately 6,300 sf (0.14 acres)

Legal Description: North 70 feet of Lot 1, Block 5, Regent Subdivision, City of Grand Junction, County of Mesa, State of Colorado.

Point of Reference: This property is located approximately 2 miles 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
Gas:	Underground
Telephone:	Overhead
Sewer:	Underground
Water:	Underground
Cable TV:	Overhead

Bordering Properties:

North:	Orchard Avenue
South:	Single-family residence
East:	Single-family residence
West:	23rd Street

2.2 Existing Facilities and Structures

Primary Structure:

Type:	Single-story residence with attached carport
Size:	Approximately 1,400 sf
Construction Date:	1960
Construction:	Wood-frame
Foundation:	Concrete stemwall on spread footing
Footing Depth:	Approximately 23" to bottom of footing from grade
Basement:	None
Crawl Space:	Yes - under entire living area
Condition:	Good

Other Structures:

Type:	Carport/shed
Size:	Approximately 350 sf
Construction:	Wood-frame
Foundation:	Concrete slab-on-grade
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-03076-RS on May 10, 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 historical information from the files of the Colorado Department of Health (CDH) and the inclusion data from Oak Ridge National Laboratory (ORNL) was conducted. These records indicate contamination associated with the city sidewalk.

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: 15 to 17 uR/h
Highest Outside Gamma Reading (HOG): 30 uR/h

Exterior radium-concentration measurements are presented in Appendix Table 3.1. Grid-point 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; these areas are shown in Appendix Figure 3.2. Data from these investigations are included in Appendix Tables 3.1 and 3.2.

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 that contain identified residual radioactive materials are:

- (AREA A) West of the primary structure, the 4-inch-thick concrete city sidewalk is contaminated (approximately 225 sf).
- (AREA B) East of the primary structure, a portion of the lawn is contaminated to a depth of 6 inches (approximately 12 sf).
- (AREA C) Southwest of the primary structure, contamination in the soil is 18 inches deep (approximately 8 sf).

4.0 RECOMMENDED REMEDIAL ACTION

4.1 Decontamination and Restoration

We do not recommend decontamination and restoration of this property. It is recommended that no remedial action be performed and that a brief Property Completion Report be prepared for use in the DOE certification process.

4.2 Evaluation of Recommended Remedial Action

The recommendation that no remedial action be performed on this property is made because the levels of radioactivity on this property fall below the EPA standards (40 CFR 192):

The concentration of Radium-226 in soil averaged over any area of 100 square meters shall not exceed the background level by more than -

- (1) 5pCi/g, averaged over the first 15 cm of soil below the surface, and
- (2) 15 pCi/g, averaged over 15-cm-thick layers of soil more than 15 cm below the surface.

Appendix Table 4.1 presents the area and volume calculations of contamination present on the property. Appendix Table 4.2 presents the calculations for concentrations of Radium-226 in soil for this location.

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	Calculations For Concentration of Radium-226 in Soil

Appendix Figures:

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

Official Survey Report

Exterior Gamma Scan Field Map

Team Leader Notes

Deconvolution Graphs (Apparent Radium-226 Concentration)

Radium Concentrations at Exterior Locations

DOE ID #GJ-03076-RS

2307 Orchard Avenue

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	130259	00-04	SS			6.0	Concrete core
		04-10	SS			1.5	Sandy and moist soil
		03	TC	4.1		*	Through core in
		06	TC	3.9		*	sidewalk
		09	TC	3.7		*	DC = 4 inches
		12	TC	3.6		*	Based on the soil
		15	TC	3.5		*	sample analyses
		18	TC	3.5		*	
		21	TC	3.4		*	
		24	TC	3.4		*	
		27	TC	3.5		*	
		30	TC	3.5		*	
		33	TC	3.6		*	
		36	TC	3.7		*	
2	130280	00-04	SS			10.5	Concrete core
		04-10	SS			1.9	Soil
		03	TC	5.3		*	Through core in
		06	TC	4.7		*	sidewalk
		09	TC	4.3		*	
		12	TC	4.0		*	DC = 4 inches
		15	TC	3.9		*	Based on the soil
		18	TC	3.8		*	sample analyses
		21	TC	3.7		*	
		24	TC	3.6		*	
		27	TC	3.5		*	
		30	TC	3.5		*	
		33	TC	3.5		*	
		36	TC	3.6		*	
3	135213	00	DS	5.1		*	On slab at phone
		13	DS	3.3		*	pole
		18	DS	1.3		*	
4	146233	00	DS	<1.0		*	Water & sewer lines
		06	DS	1.2		*	
		12	DS	<1.0		*	
		18	DS	<1.0		*	
		24	DS	<1.0		*	
5	146247	03	TC	3.1		*	
		06	TC	3.3		*	DC = 0 inches
		09	TC	3.4		*	
		12	TC	3.4		*	

Radium Concentrations at Exterior Locations

DOE ID #GJ-03076-RS

2307 Orchard Avenue

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.		
5	146247	15	TC	3.3		*	
		18	TC	3.3		*	
		21	TC	3.4		*	
		24	TC	3.4		*	
		27	TC	3.4		*	
		30	TC	3.4		*	
		33	TC	3.5		*	
		36	TC	3.7		*	
6	180256	03	TC	3.1		*	DC = 0 inches
		06	TC	3.3		*	
		09	TC	3.3		*	
		12	TC	3.3		*	
		15	TC	3.2		*	
		18	TC	3.3		*	
		21	TC	3.2		*	
		24	TC	3.2		*	
		27	TC	3.2		*	
		30	TC	3.3		*	
		33	TC	3.3		*	
		36	TC	3.3		*	
7	190228	00	DS	1.2		*	Background
		00-06	SS			1.5	
		03	TC	2.9		*	
		06	TC	3.2		*	
		09	TC	3.3		*	
		12	TC	3.3		*	DC = 0 inches
		15	TC	3.3		*	
		18	TC	3.4		*	
		21	TC	3.4		*	
		24	TC	3.4		*	
		27	TC	3.5		*	
		30	TC	3.5		*	
		33	TC	3.5		*	
		36	TC	3.6		*	
8	201238	00	DS	4.0		*	East side of primary structure
		06	DS	2.0		*	
9	201240	03	TC	3.1		*	Against side of primary structure Auger refusal DC = 0 inches
		06	TC	3.3		*	
		09	TC	3.3		*	
		12	TC	3.4		*	

Radium Concentrations at Exterior Locations

DOE ID #GJ-03076-RS

2307 Orchard Avenue

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.		
10	201252	00	DS	<1.0		*	Gas line
		06	DS	1.2		*	
		13	DS	<1.0		*	

Measurement GB = GAD-6 Borehole
Types: 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 = 05-10-85
Team Leader = DGD

Table 3.2

Summary of Interior Gamma Exposure Rates

DOE ID No. GJ-03076-RS 2307 Orchard Avenue 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)
CRAWL SPACE	00	-	-	06	15-16	16
SHED	02	13-13	13	02	13-13	13

Table 4.1
Area and Volume Calculations
DOE ID No. GJ-03076-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					
A	75 x 3 =	225	x 0.3 =	68	
B	4 x 3 =	12	x 0.5 =	6	
C	2 x 4 =	8	x 1.5 =	12	
TOTAL VOLUME - EXTERIOR				= 86 =	86/27 = 3

NOTE: Total square feet of Areas A, B and C = 245 square feet; 245 square feet = 22.5 square meters

See Appendix Figure 3.5 For Areas

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Table 4.2
Calculations for Concentration of Radium-226 in Soil
DOE ID No. GJ-03076-RS

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$$C_{avg} = \frac{C_c \times A_c + C_b (100m^2 - A_c)}{100m^2}$$

Where

C_{avg} = Concentration average (pCi/g)

C_c = Concentration of Contamination (pCi/g)

A_c = Area of Concentration (m^2)

C_b = Background Concentration (pCi/g)

$$C_{avg} = \frac{10.2 \times 22.5 + 2 (100 - 22.5)}{100}$$

$$C_{avg} = 3.85 < 7$$

Therefore, concentration does not meet EPA Standards of 7 pCi/g

NOTE: Background Radium concentration for this area is 2 pCi/g

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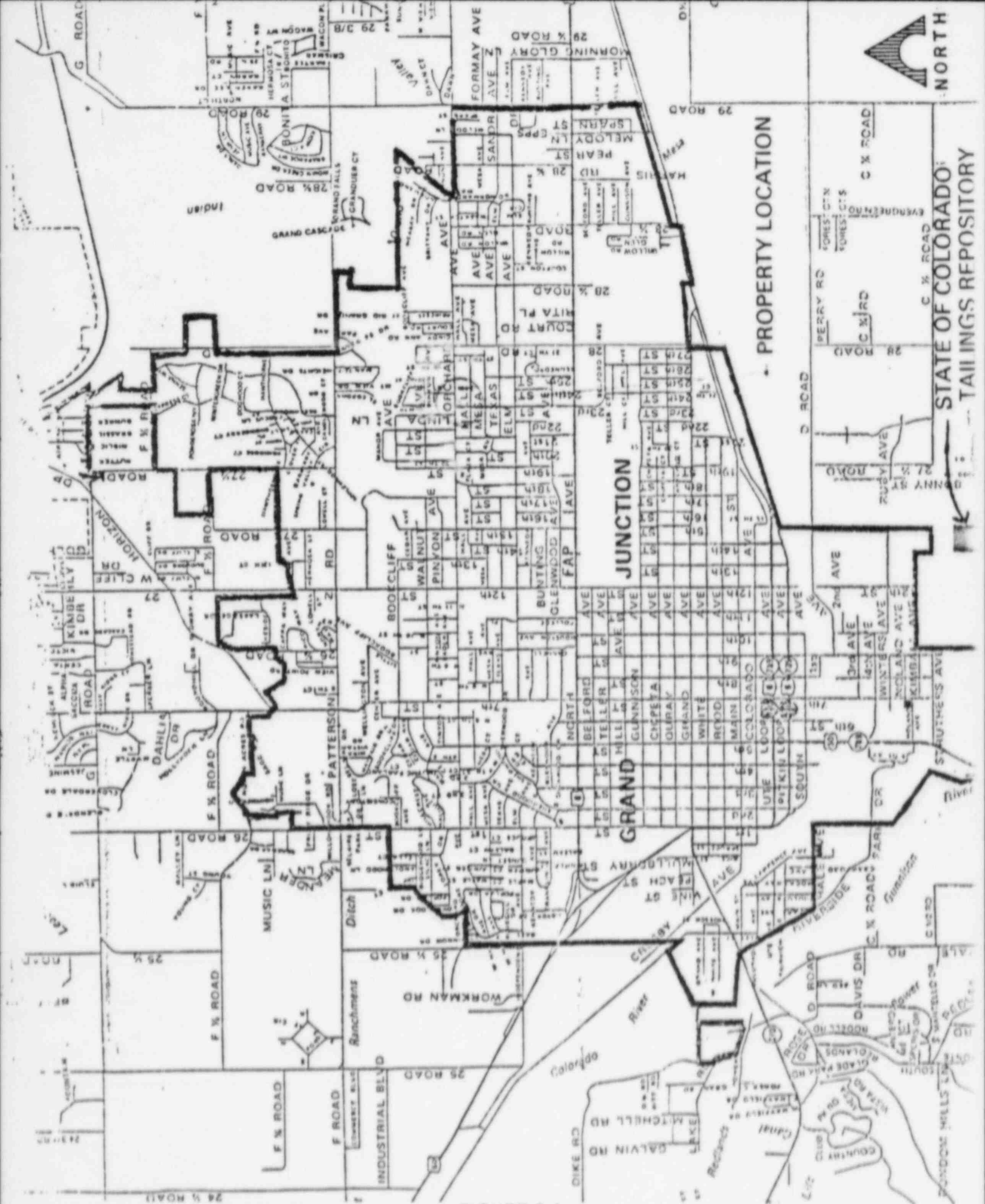
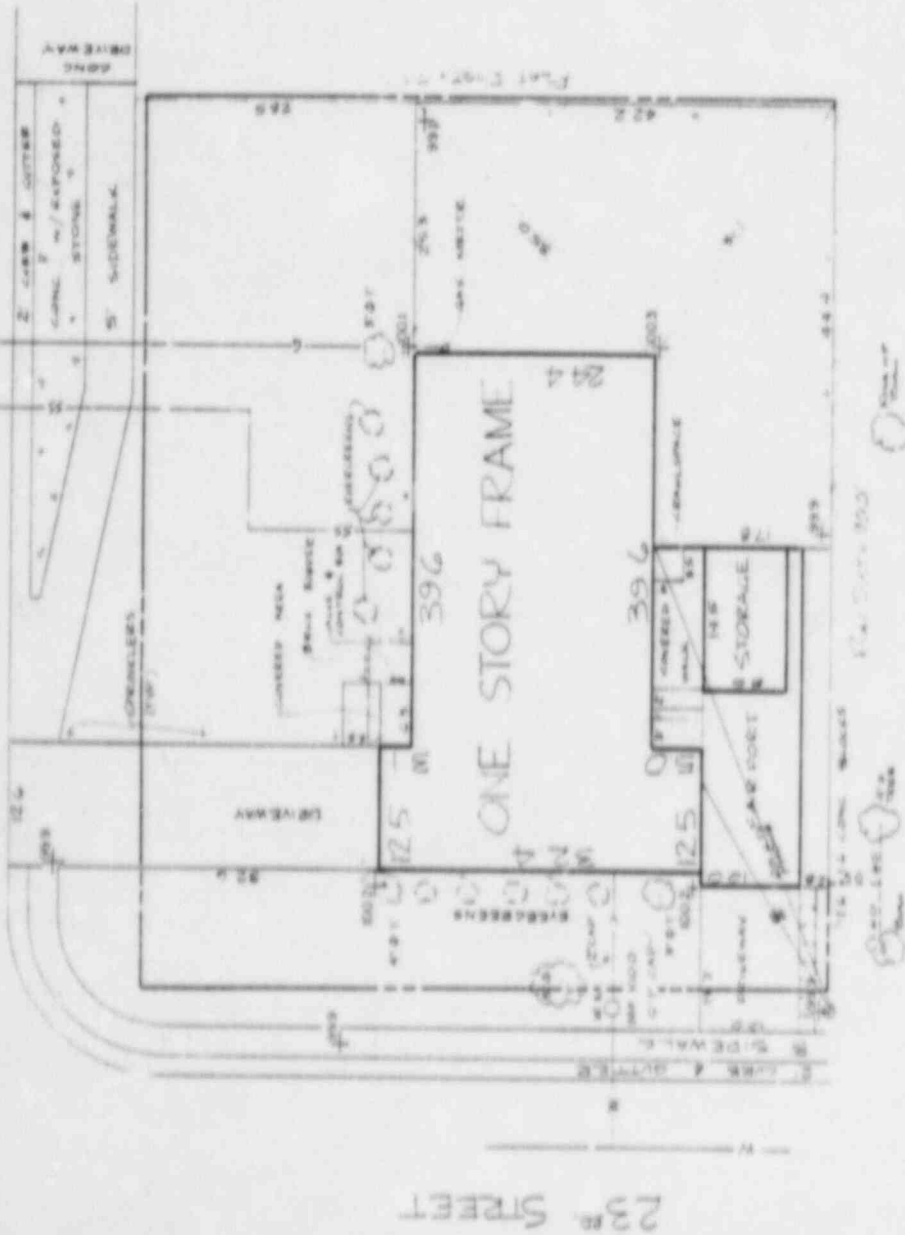


FIGURE 2.1
VICINITY MAP

ORCHARD AVENUE

83.7 ASPHALT



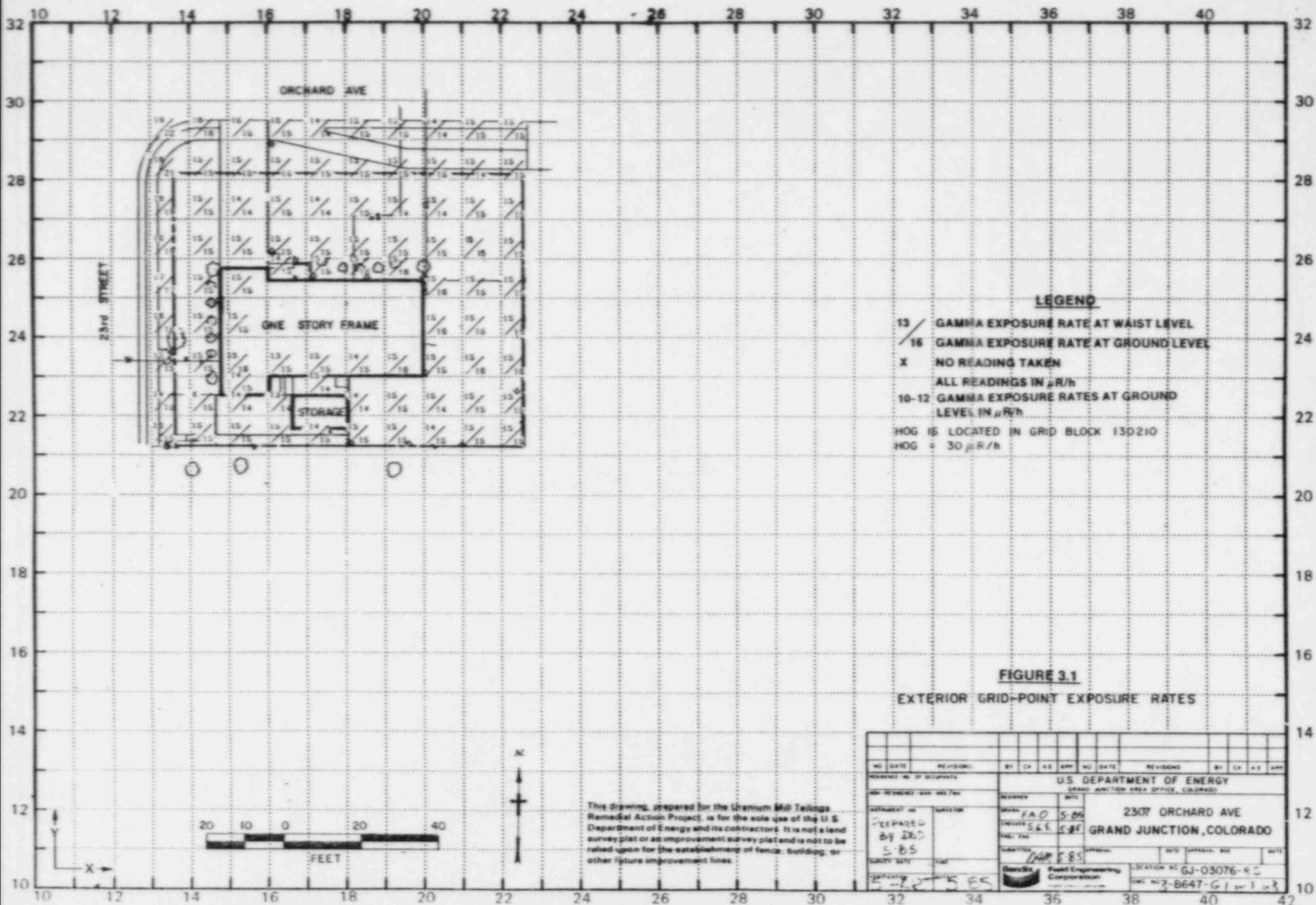
NORTH TO FEET OF LOT 1 OF
BLOCK 5 OF REGENT SUBDIVISION
CITY OF GRAND JUNCTION
MESA COUNTY, COLORADO

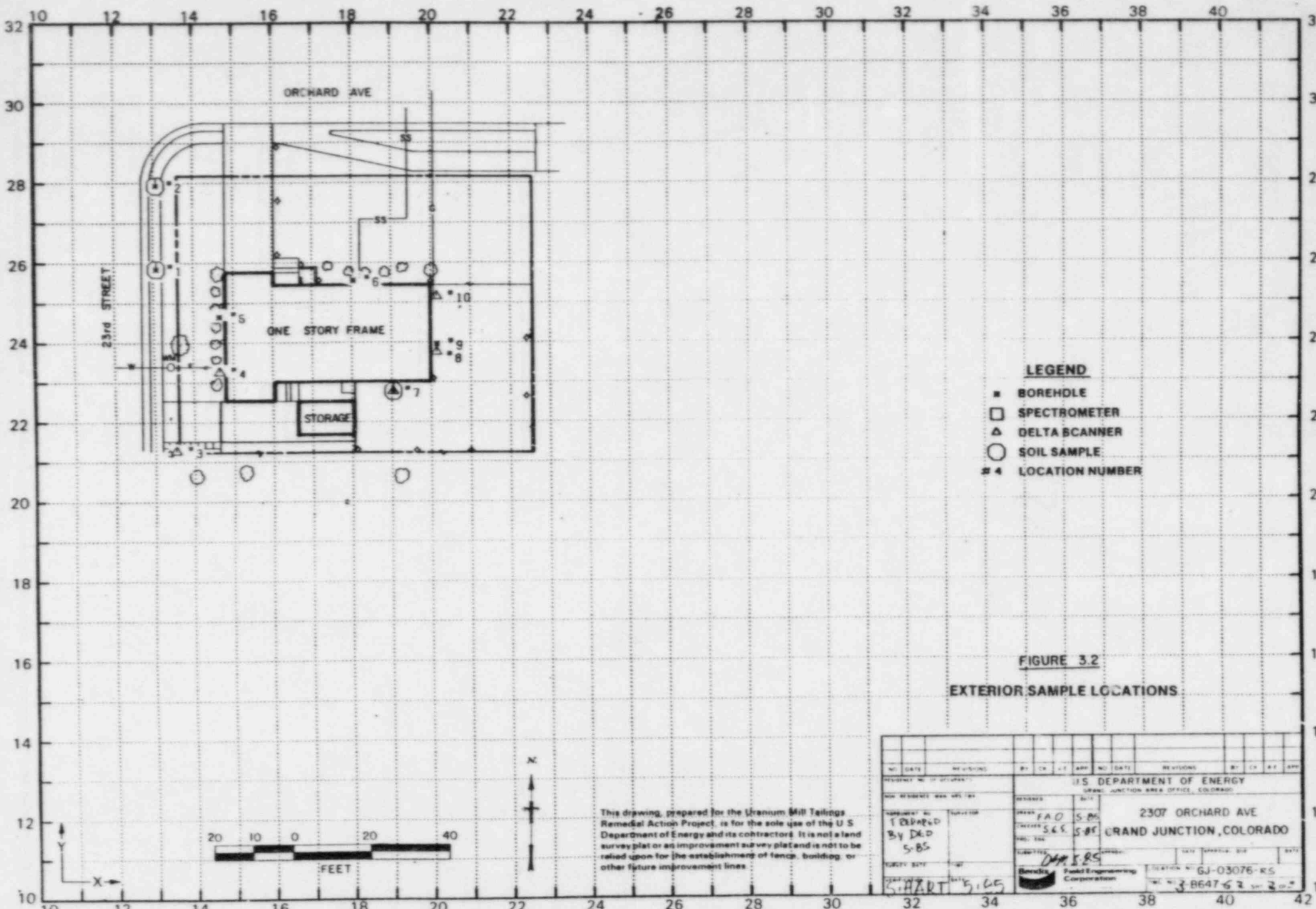


FIGURE 2.2 SITE PLAN

U.S. DEPARTMENT OF ENERGY GRAND JUNCTION PROJECT OFFICE, COLORADO	DOE ID NO. GJ-05076-R5
ADDRESS 2307 ORCHARD AVE GRAND JUNCTION, COLO.	DATE JULY 1970
SUB. E.L. 8/4 25.05 DRAFT T.3 13 60 86	SCALE 1" = 10'
DRAWING NO. 3-1-1-1	SHEET 1 OF 1

This drawing prepared for the Uranium Mill Tailings Remedial Action Project, is for the site use of the U.S. Department of Energy and its contractors. It is not a legal survey plot for an improvement survey plot and is not to be used again for the establishment of fence, building, or other future improvement lines.





LEGEND

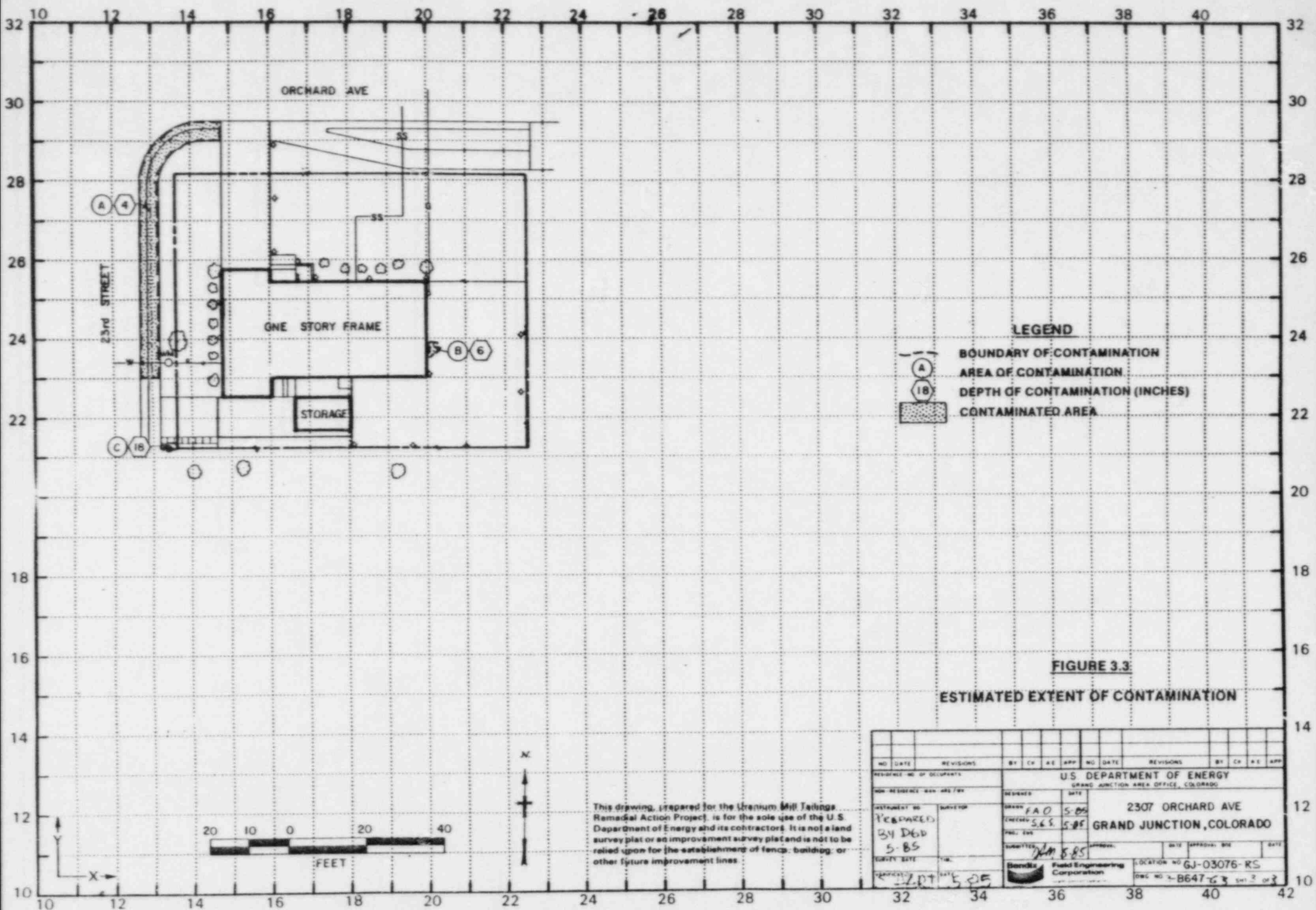
- BOREHOLE
- SPECTROMETER
- △ DELTA SCANNER
- SOIL SAMPLE
- # 4 LOCATION NUMBER

FIGURE 3.2

EXTERIOR SAMPLE LOCATIONS

This drawing, prepared for the Uranium Mill Tailings Remedial Action Project, is for the sole use of the U.S. Department of Energy and its contractors. It is not a land survey plat or an improvement survey plat and is not to be relied upon for the establishment of fence, building, or other future improvement lines.

NO. DATE REVISIONS BY CH. L.T. APP. NO. DATE REVISIONS BY CH. L.T. APP.		U.S. DEPARTMENT OF ENERGY URAN. JUNCTION AREA OFFICE, COLORADO	
PROJECT NO. 100-100-100-100		2307 ORCHARD AVE GRAND JUNCTION, COLORADO	
DRAWN BY: T. D. D. 5-85		CHECKED BY: S. S. 5-85	
DATE: 5-85		DATE: 5-85	
BY: S. H. A. T. 5-85		BY: S. H. A. T. 5-85	
PROJECT NO. 100-100-100-100		PROJECT NO. 100-100-100-100	
PROJECT NO. 100-100-100-100		PROJECT NO. 100-100-100-100	



3/85

DOE ID NO. GJ-03076-RS

Date May 21, 1985

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

Official Survey Report

Property Address 2307 Orchard Avenue

Property Owner James T. Logue

Address of Owner (if different from above)

Report Prepared By David Dille

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.

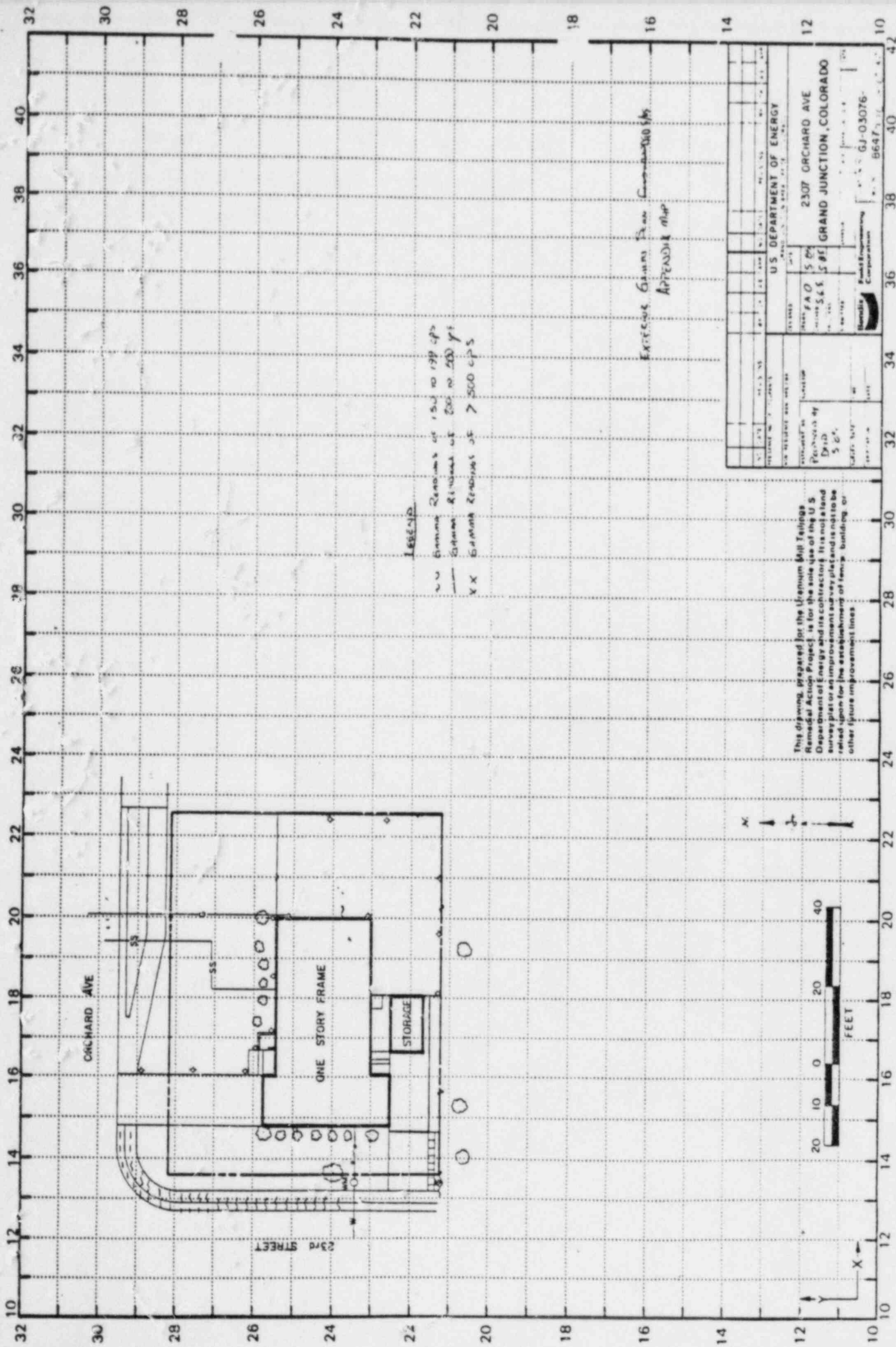
☒ 1 Levels of radiation from residual radioactive materials exceed EPA Standards such that Remedial Action is recommended and will be accomplished, with your consent, as soon as budget and schedule permit.

cc:

G. A. Franz, III, GJ/CDH

J. Themelis, Mgr. UMTRA Proj. Off.

HIG = 16 uR/h
HOG = 30 uR/h



ALLIED Bendix
Aerospace

Bendix Field Engineering Corporation
Grand Junction Operations
Grand Junction, Colorado

Date: May 10, 1985

To: Files

From: David G. Dille

Subject: Team Leader Notes - GJ-03076-RS

Address:

Owner: James T. Logue

Occupancy: Two

Weather: Rain, cool.

Team Members

D. Dille (Team Leader)
D. Dow
M. Dexter
S. Southern
S. Larsen

H. Mattison
N. Wallace
B. Moody
P.J. Bonner

Instruments

See Equipment Summary sheet.

Colorado Department of Health (CDH) and Oak Ridge National Laboratory (ORNL) data indicate contamination associated with the City sidewalk and a small area in the southwest corner of the property.

I spoke with the owner Mr. Logue, concerning the location of the utility lines that were drawn on the Bendix map. He indicated that the sewer line was not depicted correctly. In actuality, the sewer line exits the house at the same location as the water line and runs east to the center of 23rd.

Team Leader Notes
David G. Dille
GJ-03076-RS
May 10, 1985
Page 2

All work proceeded with no hinderances.

All utility lines were investigated.

Gamma measurements were taken in the crawl space.

All team members were frisked before leaving the property.

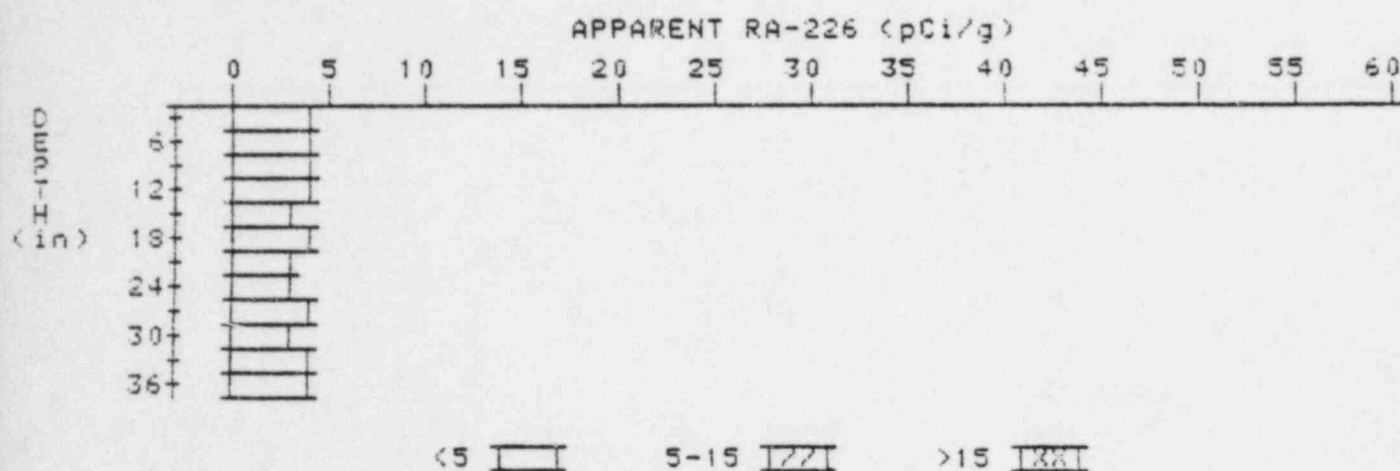
APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

1

PROPERTY NUMBER: GJ-03076-RS

HOLE NUMBER: 1

LOCATION: 130259



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	4.1	4.1
6	3.9	3.9
9	3.7	3.5
12	3.6	3.6
15	3.5	3.3
18	3.5	3.7
21	3.4	3.2
24	3.4	3.2
27	3.5	3.7
30	3.5	3.3
33	3.6	3.6
36	3.7	3.7

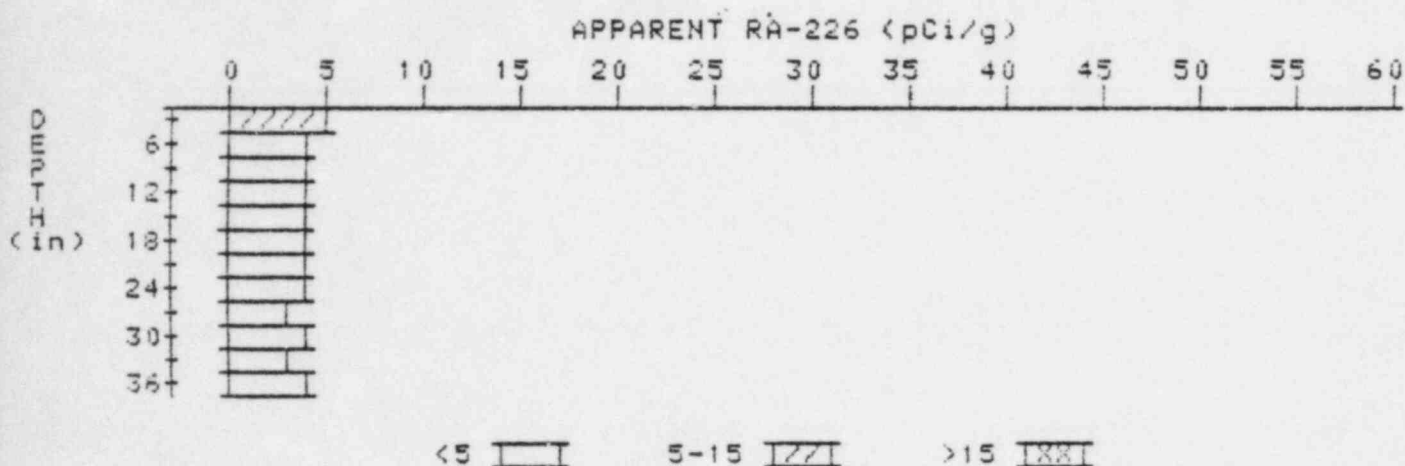
APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

2

PROPERTY NUMBER: GJ-03076-RS

HOLE NUMBER: 2

LOCATION: 130230



Depth (in)	Apparent Radium-226 (pCi/g)	Apparent Radium-226 (pCi/g)
	Undeconvolved	Deconvolved
3	5.3	5.3
6	4.7	4.3
9	4.3	4.1
12	4.0	3.6
15	3.9	3.9
18	3.8	3.8
21	3.7	3.7
24	3.6	3.6
27	3.5	3.5
30	3.5	3.5
33	3.5	3.5
36	3.6	3.6

APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

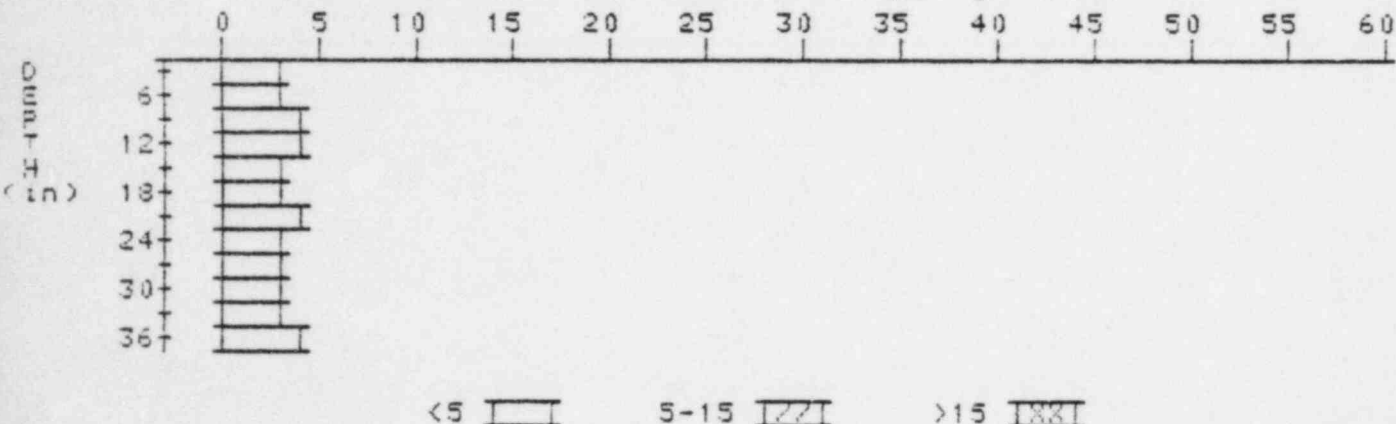
5

PROPERTY NUMBER: GJ-03076-RS

HOLE NUMBER: 5

LOCATION: 146247

APPARENT RA-226 (pCi/g)



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.1	3.1
6	3.3	3.5
9	3.4	3.6
12	3.4	3.6
15	3.3	3.1
18	3.3	3.1
21	3.4	3.6
24	3.4	3.4
27	3.4	3.4
30	3.4	3.2
33	3.5	3.3
36	3.7	3.7

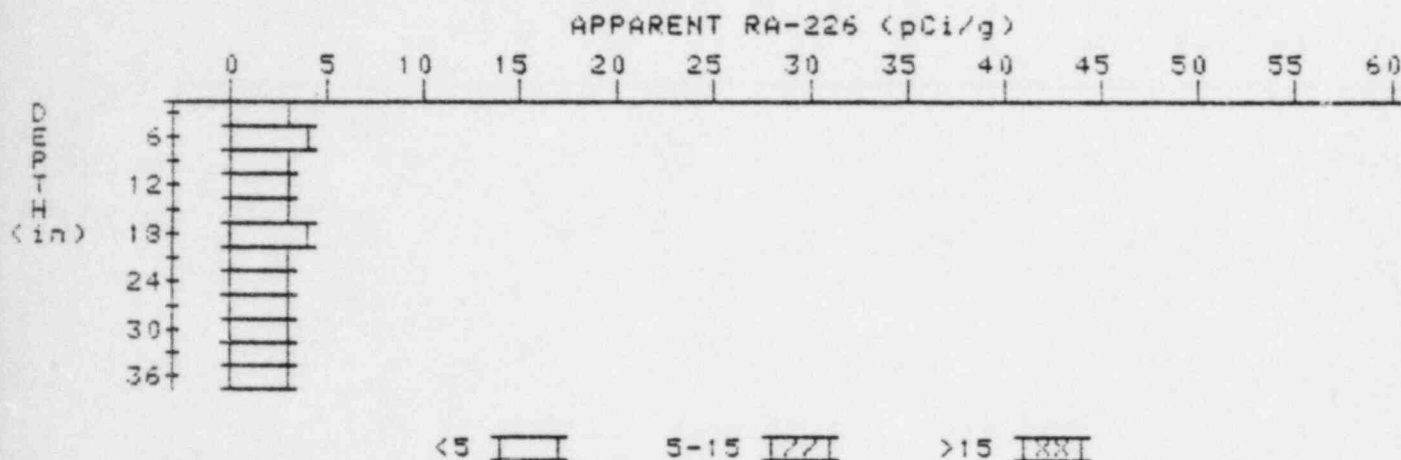
APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

6

PROPERTY NUMBER: GJ-03076-RS

HOLE NUMBER: 6

LOCATION: 180256



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.1	3.1
6	3.3	3.7
9	3.3	3.3
12	3.3	3.5
15	3.2	2.8
18	3.3	3.7
21	3.2	3.0
24	3.2	3.2
27	3.2	3.0
30	3.3	3.5
33	3.3	3.3
36	3.3	3.3

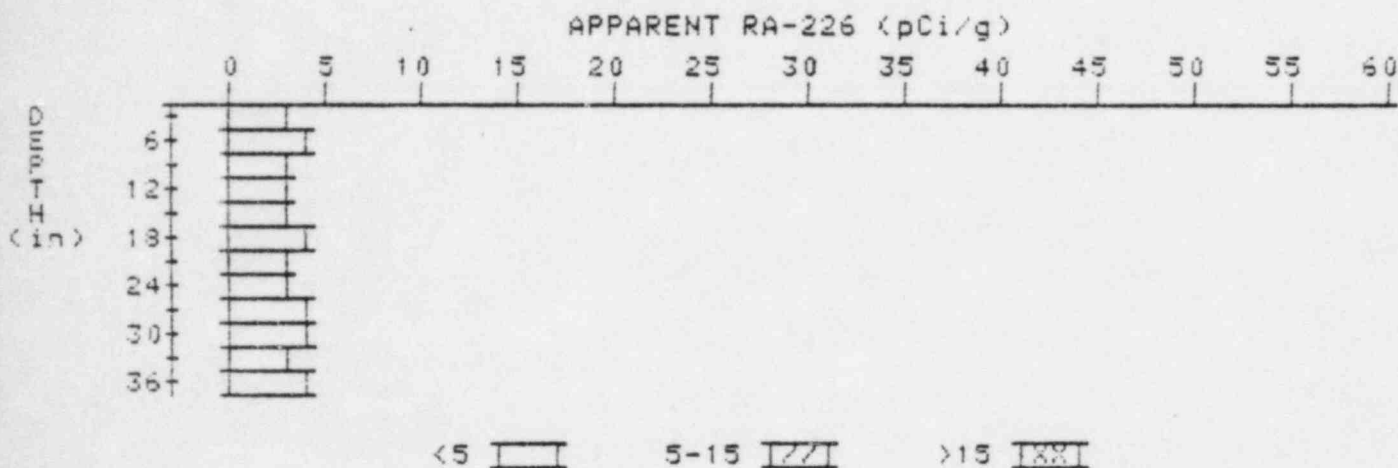
APPARENT RADIUM-226 CONCENTRATION DECONVOLUTION GRAPH

7

PROPERTY NUMBER: GJ-03076-RS

HOLE NUMBER: 7

LOCATION: 190228



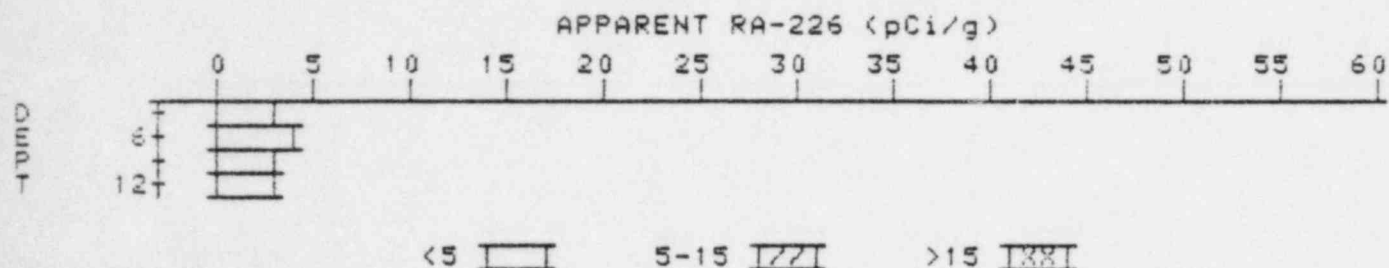
Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	2.9	2.9
6	3.2	3.6
9	3.3	3.5
12	3.3	3.3
15	3.3	3.1
18	3.4	3.6
21	3.4	3.4
24	3.4	3.2
27	3.5	3.7
30	3.5	3.5
33	3.5	3.3
36	3.6	3.6

APPARENT RADIUM-226 CONCENTRATION 9 DECONVOLUTION GRAPH

PROPERTY NUMBER: GJ-03076-RS

HOLE NUMBER: 9

LOCATION: 201240



Depth (in)	Apparent Radium-226 (pCi/g) Undeconvolved	Apparent Radium-226 (pCi/g) Deconvolved
3	3.1	3.1
6	3.3	3.7
9	3.3	3.1
12	3.4	3.4