



SURVEY PACKAGE

Survey Package ID: A4024 101C1

Survey Area Name: SETF Paved Yard and Adjacent Soil Areas

Survey Unit Name: Buried Waste Tank/Vault Location

Version: Revision 0, May 9, 2007

**Prepared IAW:
SETF Sample and Analysis Plan, Rev. 0, March 2007**

**Prepared For:
The Boeing Company
Santa Susana Field Laboratory
5800 Woolsey Canyon Rd
Canoga Park, CA 91304**

**Prepared By:
AREVA NP Inc.
Federal D&D Services
7207 IBM Drive
Charlotte, NC 28262**



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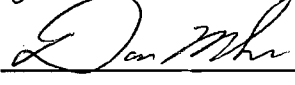
Survey Package Cover Sheet

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Survey Package Preparation:

The survey package instructions are prepared and ready for implementation.

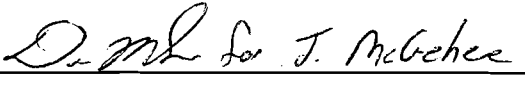
Prepared By:  Date 5/24/07
FSS/Characterization Design Engineer

Reviewed By:  Date 5/24/07
FSS/Characterization Manager (or designee)

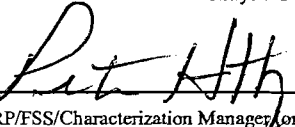
Approved By:  Date 5/24/07
Project Manager

Survey Completion:

The survey package instructions were implemented and the survey measurements have been reviewed for completeness in accordance with the Sample and Analysis Plan. The data collected has been reviewed for completeness in accordance with the survey package instructions.

Reviewed By:  Date: 11/30/07
FSS/Characterization Supervisor (or designee)

Reviewed By: N/A Date: _____
FSS/Characterization Data Analysis Engineer

Reviewed By:  Date: 11/30/07
RP/FSS/Characterization Manager (or designee)

Approved By:  Date: 11/30/07
Project Manager

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Survey Unit Name:	Buried Waste Tank/Vault Location		

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Survey Area History

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Survey Area Description:

Erected in 1960 and enlarged in 1962, 4 unshielded SNAP reactors were tested in the SETF. The reactor systems and radioactive test equipment were removed at the end of testing, additional D&D operations were performed in 1978 and again in 2005.

Survey Area History Information:

SETF Facility Description

As constructed, the SETF consisted of three basic areas: the high bay, general support and mechanical/electrical support areas. In addition to the building areas, a paved yard surrounds the main building. All of the building areas except for test cells B-102 and B-104 of the sub grade test cell complex (SGTCC) have been surveyed and confirmed to be DM by the DHS-RHB.

The test cells have an aluminum liner, contain activated concrete and metal rebar from former reactor testing. In the yard area, other above grade support structures and below grade components such as radioactive solid, liquid, and gas storage tanks were once buried. The tanks were removed, but surveys showing the radiological condition of the remaining vaults are not available.

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Survey Unit Description and History

Survey Package Number: A4024 101C2 Package Type: Environ
LC1: A4024 Survey Area Name: SETF Paved Yard and Adjacent Soil Areas
LC2: 101C2 Survey Unit Name: Buried Waste Tank/Vault Location

LC3 - Surface Category (P1-3) and Associated Area:

LC3_P1_3	Surface Description	Dimensions (Yes or No)	Total Area (m2)
SH1	Depth 2-3 m Subsurface Soil Sample	Yes	99

Work Breakdown Structure Information:

WBS ID: 10401 Characterization and Confirmatory Survey Activities

Survey Unit Description:

This survey unit consists of the soil areas where radioactive solid, liquid, and gas storage vaults and/or tanks were once buried beneath the asphalt paved yard.

Survey Unit Historical Information: Operational History, etc.

Buried Waste Tank/Vault Location

This survey unit consists of the soil area resulting from excavation for Survey Package E4024 101C1. The purpose of the excavation is to provide access to Surface SP1 and SML #6.

Radioactive liquid waste tanks and gas storage were once buried beneath the asphalt paved yard. While performing trenching for the initial survey, it was revealed that piping for the liquid waste tanks was still present. Refer to Survey Package E4024 101C1, Surface SP1 and the piping diagram connecting SMLs #7 and #8 and the piping connecting SML #s 3, 4 and 5 to SML #6. All other piping and tanks have been removed (see drawing on page A3 of 5 in Survey Package A4024 101C1).

Also revealed was that the concrete vault that contained the liquid waste tanks was broken into pieces less than one cubic foot size and placed back in the excavation at the time the liquid and gas waste tanks were removed. This was also the case with the asphalt covering this area. During the survey (Survey Package A4024 101C1), as concrete, asphalt and approximately 6 ft. section of the French drain were removed and segregated from the soil. Soil was scanned, shown to be at background levels radiologically and placed back in the trenches. The concrete and asphalt was scanned, shown to be at background levels radiologically and placed in the DM

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Survey Unit Description and History

Survey Package Number: A4024 101C2 **Package Type:** Environ

LC1: A4024 **Survey Area Name:** SETF Paved Yard and Adjacent Soil Areas

LC2: 101C2 **Survey Unit Name:** Buried Waste Tank/Vault Location

storage area for subsequent disposal at a California Class I landfill. The section of the French drain was scanned, shown to be at background levels radiologically, double bagged in plastic and stored while samples collected from the exterior coating were analyzed for ACM determination, results from analysis showed coating was not ACM.

Additional Information Regarding Survey Unit Classification:

Inside RCA? No

Coolant? No

Spills? No

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Survey Package References

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Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

References:

1. Sample and Analysis Plan for the SETF D&D Surveys, Rev 0, March 2007, AREVA
2. Quality Assurance Project Plan for the SETF D&D Surveys, Rev 0, March 2007, AREVA
3. Health and Safety Plan for the SETF D&D Project, March 2007, AREVA
4. MARSSIM, Multi-Agency Radiation Survey and Site Investigation Manual, EPA402-R-97-016 (NUREG-1575), August 2000

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Survey Safety Requirements

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Safety Requirement and Considerations:

1. This area contains or may contain physical slip, trip and fall hazards, and watch for poisonous snakes and insects.
2. All work to be performed in accordance with the Job Hazard Analysis prepared for surveys of radiological areas.
3. All work to be performed in accordance with RWP prepared for surveys of radiological areas.

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Survey Support Requirements

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Survey Support Requirements and Considerations:

1. Boeing to provide lift equipment and operator as needed to provide access to excavated area.
2. Review Job Hazard Analysis prepared for soil area surveys.

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Survey Package Procedures

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Survey Package Procedures:

1. DD-CS-001 Sample Identification and Chain of Custody
2. DD-CS-011 Operation of Ludlum Model 2350 Data Logger
3. DD-RP-010 Portable Instrument Procedure

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General Survey Package Instructions

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

1. Refer to initial instructions (i.e., A4024 101C1)

Initial Just-PGM

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General Survey Package Instructions

Survey Package Number: A4024 101C1	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas	
Survey Unit Name:	Buried Waste Tank/Vault Location	

1. Perform measurements and collect samples of sufficient quantity to confirm absence of radioactivity from former buried waste tank and/or vault locations at Building 4024.
Operate instruments for background study and survey direct measurements and sample analysis such that measurement and/or analysis sensitivities or minimum detectable concentrations (MDCs) are ALARA or, as a minimum less than the derived concentration guideline levels (DCGLs).
2. The survey is to aid in removal activities, waste management activities, and remediation planning.
Upon completion of the initial survey specified in this survey package, the data will be analyzed and a determination will be made as to whether or not the area has been adequately characterized.
3. If materials that are potentially hazardous are encountered during the survey, note this in the item description under "material" and report the location of the material to the FSS/Characterization Manager and EH&S Manager.
4. The number of measurements and/or samples prescribed are minimum number required.
Additional measurements may be required to bound the lateral/vertical extent of radiological contamination in the survey unit to an approximate 24" depth. Survey maps for this survey unit are located in Appendix A.
5. Mark each measurement location with a stake or survey flag and include LC5 and/or LC6 code as appropriate.
6. The M2350 data logger(s) are to be downloaded into the Measure Database at completion of survey or at end of shift at a minimum.
7. All samples are to be logged into the Sample Database at completion of survey or at end of shift at a minimum.
Note any problems, comments, or other information pertinent to the data or sample collection under the "FIELD NOTES" section.

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Specific Survey Package Instructions

Survey Package Number:	A4024 101C2	Package Type:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

1. Gamma Scan

Perform a gamma scan survey of 6 square meters around each SML.

Use a Model 44-10 detector. The scans shall be performed by moving at a maximum rate of one detector width per second while listening to the audible output of the instrument. Note any areas of highest activity on the appropriate survey drawing contained in Appendix A and mark at the SML. Do not log scan results.

2. Gamma Contact

Perform contact gamma measurement at the locations of highest activity identified during the scan.

Use Model 44-10 with the M2350 in the scaler mode with a 12 second count time and code the measurement LC4_P4 as "F," for Field Count.

3. Exposure Rate

Perform gamma exposure rate measurement at one (1) meter above the surface from each contact gamma measurement location.

Use Model 44-10, the M2350 in the scaler mode with a 12 second count time and code the measurement LC4_P4 as "F," for Field Count.

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Survey Package Location Codes

Survey Package Number A4024 101C2 **Package Type:** Environ

LC1: A4024 **Survey Area Name:** SETF Paved Yard and Adjacent Soil Areas

LC2: 101C2 **Survey Unit Name:** Buried Waste Tank/Vault Location

Class Description: Impacted Class 1 Environ

Reason Description: C2 Characterization Survey

LC3_P1-3 and Surface Category: SH1 Subsurface Soil Sample @ Depth 2-3 meter

LC3_P45 Material Description

S1 Soil

LC4_P13 - Detector Type, Analysis Codes, and Measurement/Samples Quantity

Measurement	LC4 P13 Code	Model	Description	Qty Prescribed	Qty Collected	Collected By (Initials)
Contact Gamma	G01	44-10	2"x2" NaI(Tl) Gamma Scintillator	18	18	JM
Exposure Rate	G02	44-10	2"x2" NaI(Tl) Gamma Scintillator	18	18	JM
Gamma Scan	G01	44-10	2"x2" NaI(Tl) Gamma Scintillator	18	18	JM

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Survey Package Location Codes

Survey Package Number	A4024 101C2	Package Type:	Environ
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LC1:	A4024	Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas
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LC2:	101C2	Survey Unit Name:	Buried Waste Tank/Vault Location
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Class Description:	Impacted Class 1 Environ
---------------------------	--------------------------

Reason Description:	C2 Characterization Survey
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LC4_P4 - Count Type

LC4_P5 - Background Mode Codes

A Pre-use Background Check

A Average Background

B Pre-use Source Check

N Background Not Required

C Post-use Background Check

S Single Background

D Post-use Source Check

F Field Count

G Field Background

S Field Scan

Survey Field Notes: Additional information regarding the performance of the survey, measurements, sample collection, etc. Use additional pages as needed for field notes.

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Survey Package Appendix A – Drawings

Survey Package:	A4024 101C2	Package:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Survey Package Appendix A.- Drawings

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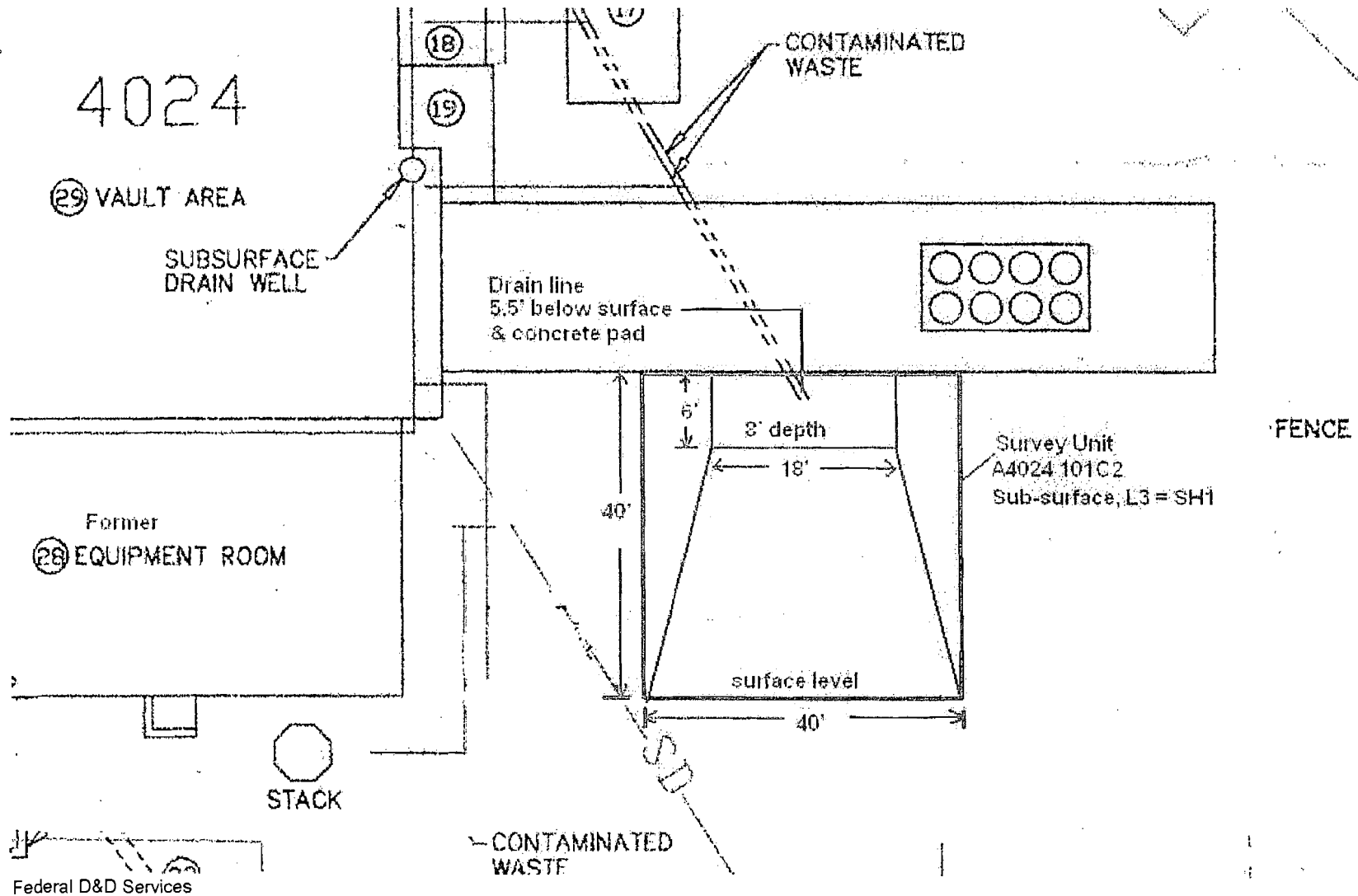
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Survey Package Appendix A – Drawings

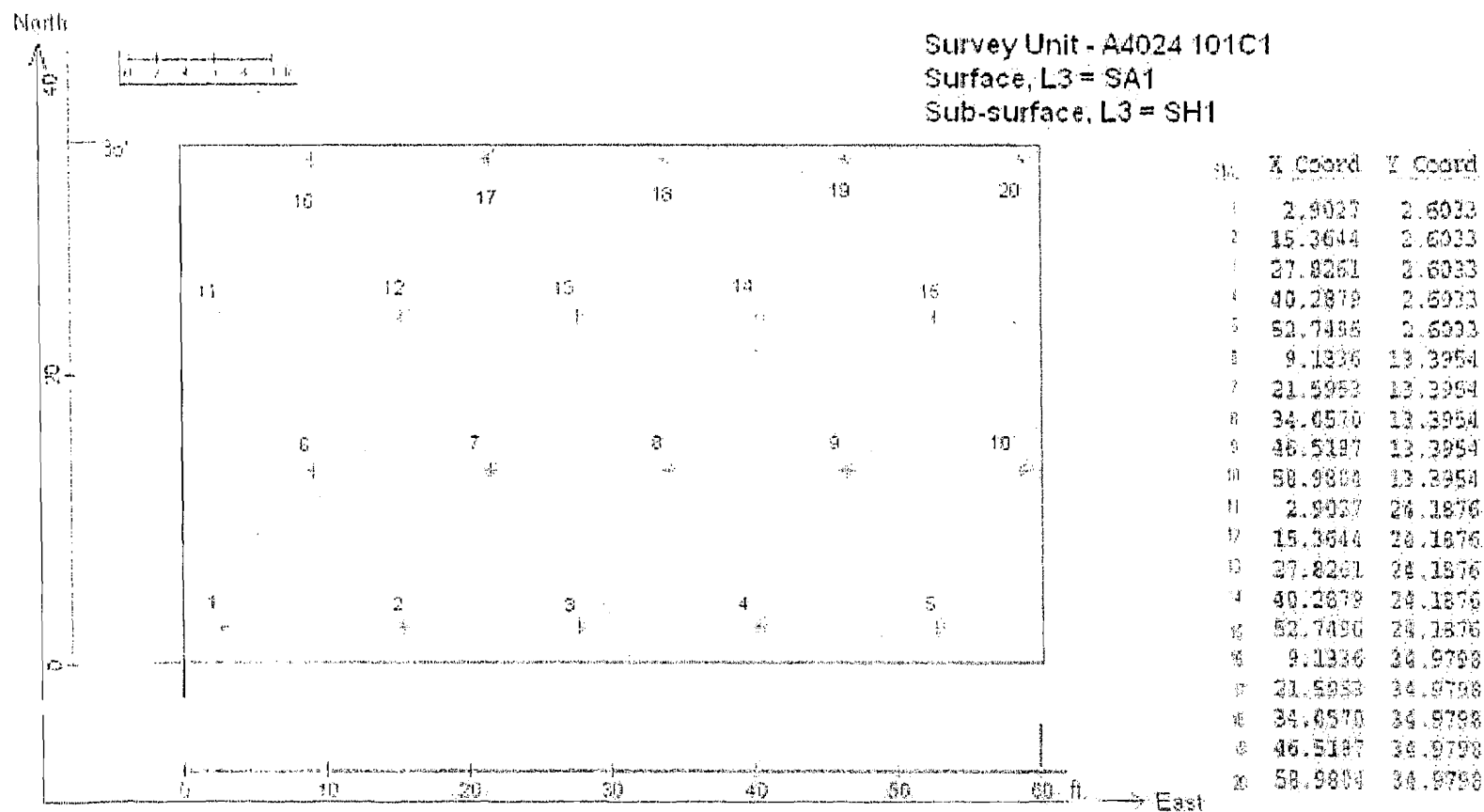


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Survey Package Appendix A – Drawings



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Survey Package Appendix B – Photographs

Survey Package: A4024 101C2 Package: Environ
Survey Area Name: SETF Paved Yard and Adjacent Soil Areas
Survey Unit Name: Buried Waste Tank/Vault Location

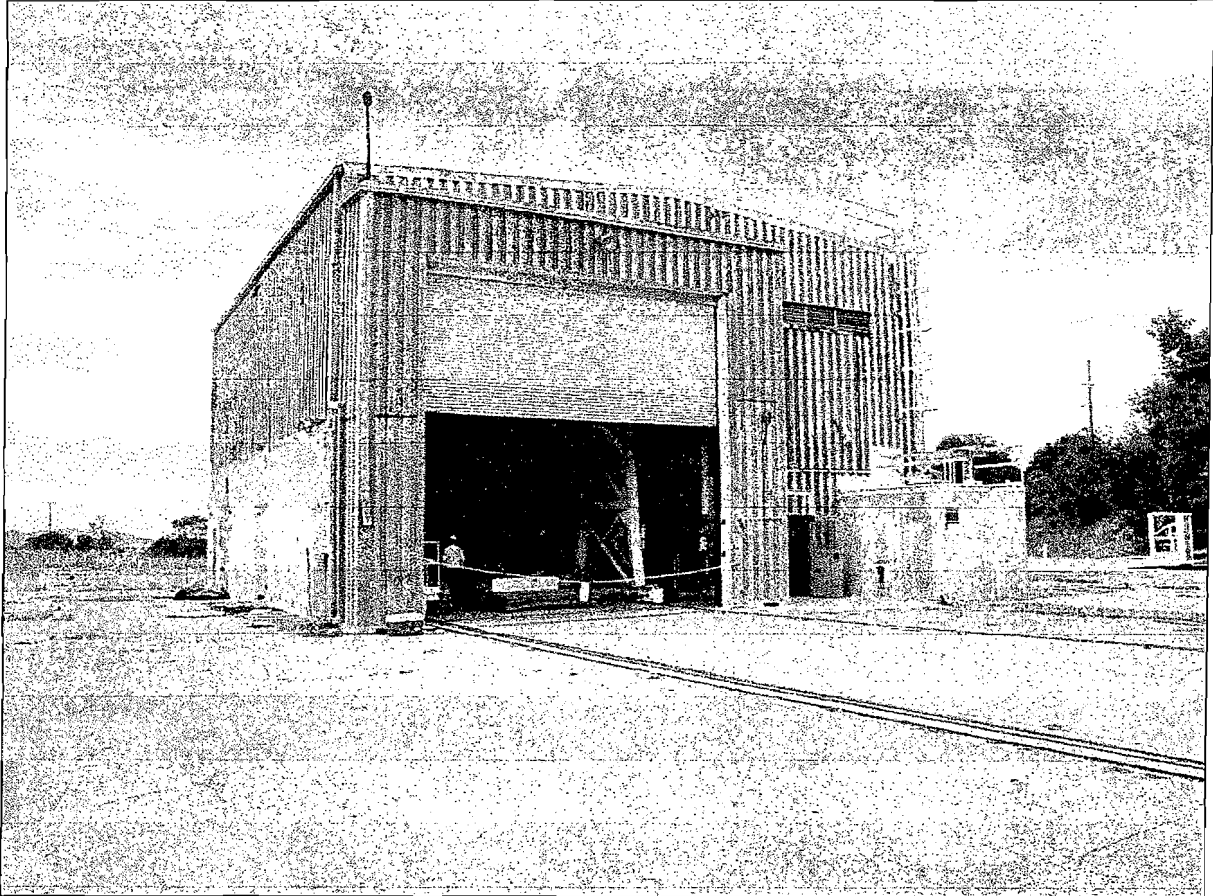
Survey Package Appendix B - Photographs

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Survey Package Appendix B – Photographs

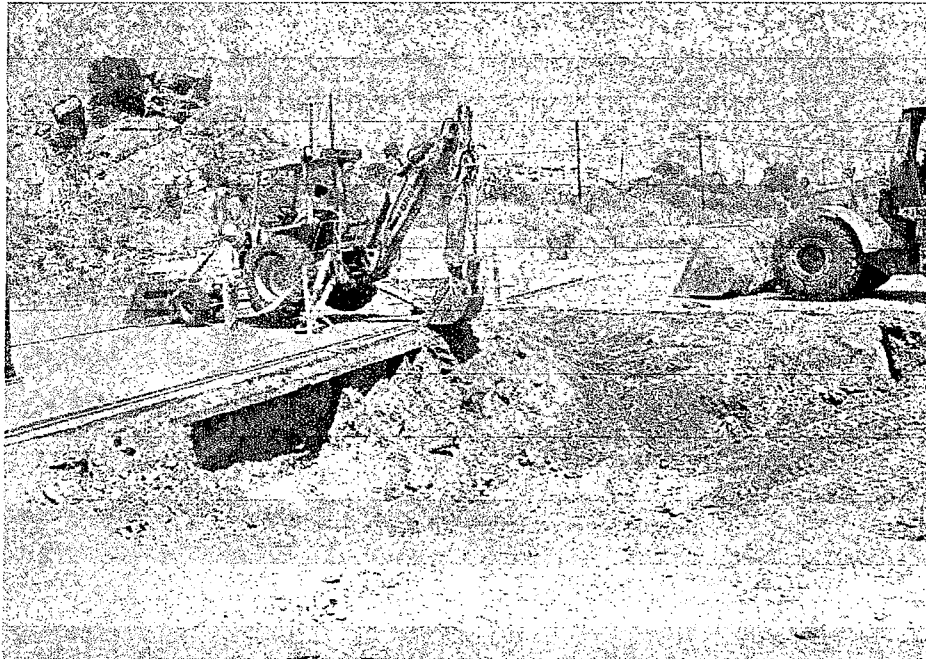


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Survey Package Appendix B – Photographs

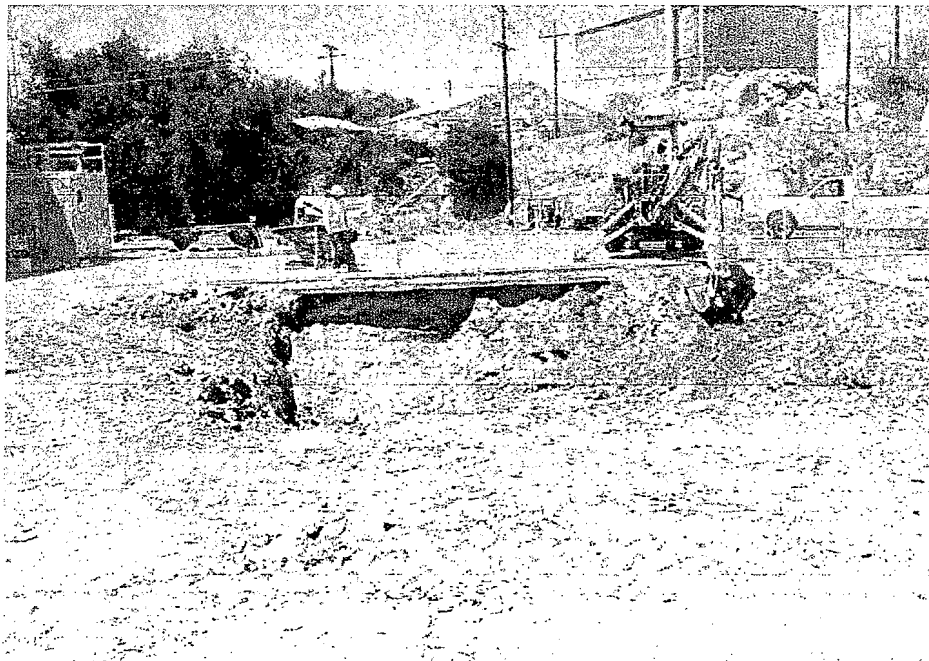
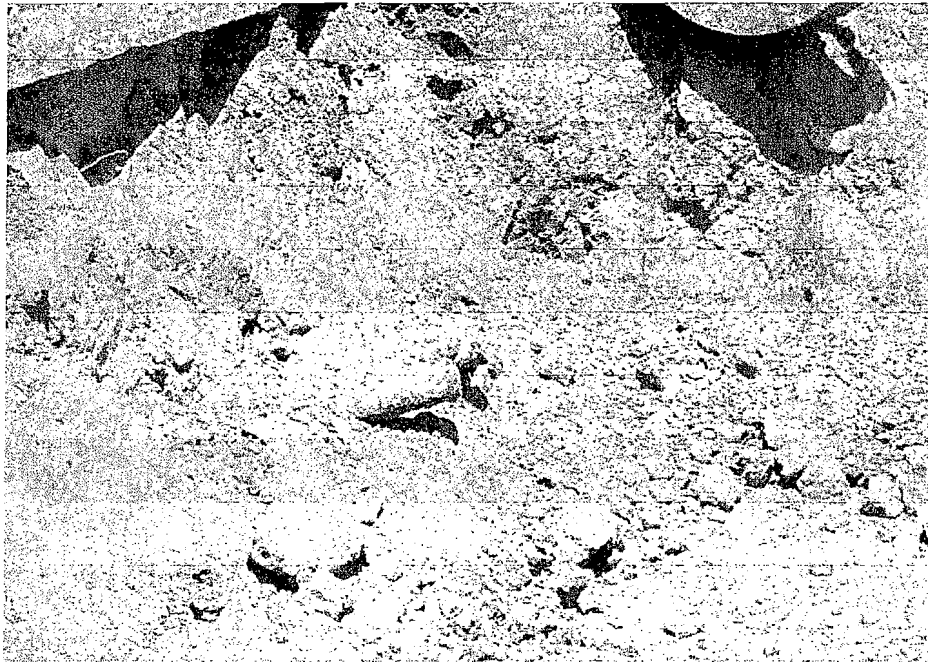


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Survey Package Appendix B – Photographs

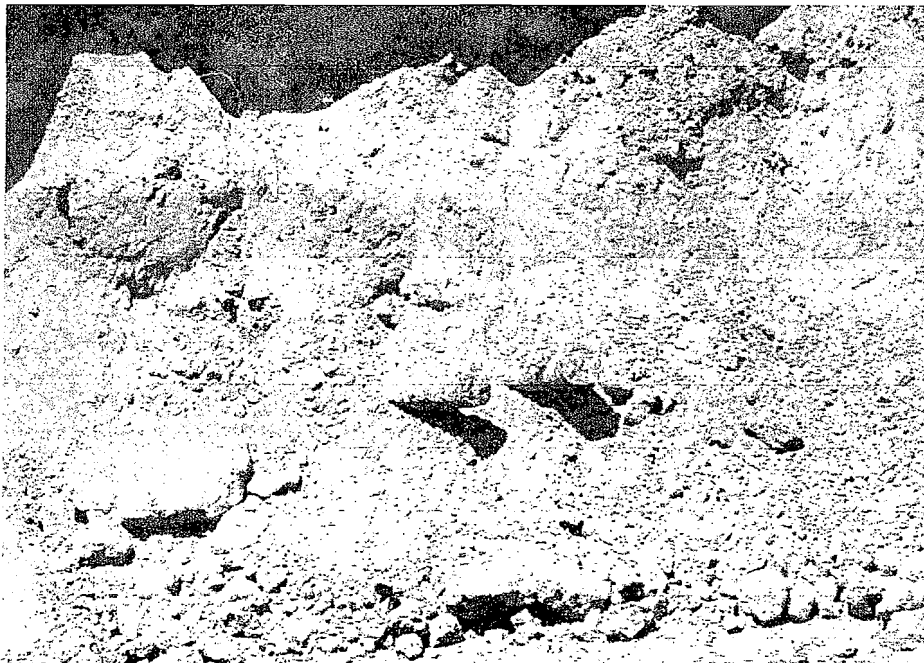


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Survey Package Appendix B – Photographs



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Survey Package Appendix B – Photographs



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Survey Package Appendix C – Survey Results

Survey Package: A4024 101C2 Package: Environ
Survey Area Name: SETF PAVED Yard and Adjacent Soil Areas
Survey Unit Name: Buried Waste Tank/Vault Location

Section	Title	Total Pages
1.0	Annotated Drawings	0
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3.0	Measurement Results – Direct Alpha Measurements	0
4.0	Measurement Results – Exposure Rate Measurements	2
5.0	Sample Analysis Results – Alpha/Beta Counter	0
6.0	Sample Analysis Results – Gamma Spectroscopy	21
7.0	Sample Analysis Results – Alpha Spectroscopy	15
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Survey Package Appendix C – Survey Results

Survey Package: A4024 101C2 Package: Environ
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Survey Unit Name: Buried Waste Tank/Vault Location

**Section 1.0
Annotated Drawings
0 Pages**

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Survey Package Appendix C – Survey Results

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Survey Unit Name: Buried Waste Tank/Vault Location

**Section 2.0
Measurement Results – Direct Beta Measurements**
4 Pages

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Survey Package Appendix C – Survey Results

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Survey Unit Name: Buried Waste Tank/Vault Location

Section 3.0
Measurement Results – Direct Alpha Measurements
~~0~~ Pages

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Survey Package Appendix C – Survey Results

Survey Package:	A4024 101C2	Package:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

Section 4.0
Measurement Results – Exposure Rate Measurements
2 Pages

Measurement Database Download Report
Exposure Rate Measurements

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL052207-001	2	JLM3848	5/25/2007	11:56 AM	A4024 101C1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
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CS313 DTR01	95359	JE15742	162404	0	1	5/22/2007	6:53:54 AM	5.63E+05	30	1	0	55	CS313	DTR01	SH1S1	G01BA	LAB01	1		0	1.26E+03
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CS313 DTR01	95359	JE15742	162404	0	3	5/22/2007	6:57:06 AM	1.83E+04	30	1	0	55	CS313	DTR01	SH1S1	G01BA	LAB01	3		0	4.09E+01
A4024 101C1	95359	JE15742	162404	0	5	5/22/2007	8:48:50 AM	5.04E+03	12	1	0	55	A4024	101C1	SH1S1	G01FA	SH1	8		0	2.82E+01
A4024 101C1	95359	JE15742	162404	0	6	5/22/2007	11:50:44 AM	4.92E+03	12	1	0	55	A4024	101C1	SH1S1	G01FA	SH1	9		0	2.75E+01
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Reviewed By: Joe Long Date: 5-25-07 Approved By: John McFadden Date: 6/5/07

Measurement Database Download Report
Exposure Rate Measurements

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL052307-001	2	JLM3848	5/25/2007	11:56 AM	A4024 101C1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
CS313 DTR01	95359	JEJ5742	162404	0	0	5/23/2007	7:12:12 AM	1.18E+05	600	1	0	56	CS313	DTR01	SH1S1	G01AA	LAB01	1		0	1.31E+01
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CS313 DTR01	95359	JEJ5742	162404	0	2	5/23/2007	7:30:32 AM	2.82E+04	30	1	0	56	CS313	DTR01	SH1S1	G01BA	LAB01	2		0	6.32E+01
CS313 DTR01	95359	JEJ5742	162404	0	3	5/23/2007	7:32:10 AM	1.75E+04	30	1	0	56	CS313	DTR01	SH1S1	G01BA	LAB01	3		0	3.92E+01
A4024 101C1	95359	JEJ5742	162404	0	4	5/23/2007	8:38:40 AM	4.11E+03	12	1	0	56	A4024	101C1	SH1S1	G01FA	SH1	15		0	2.30E+01
A4024 101C1	95359	JEJ5742	162404	0	5	5/23/2007	10:49:38 AM	5.23E+03	12	1	0	56	A4024	101C1	SH1S1	G01FA	SH1	14		0	2.92E+01
CS313 DRT02	95359	JEJ5742	162404	0	8	5/23/2007	3:11:36 PM	1.06E+05	600	1	0	56	CS313	DRT02	SH1S1	G01CA	LAB01	1		0	1.18E+01
CS313 DRT02	95359	JEJ5742	162404	0	9	5/23/2007	3:14:12 PM	5.76E+05	30	1	0	56	CS313	DRT02	SH1S1	G01DA	LAB01	1		0	1.29E+03
CS313 DRT02	95359	JEJ5742	162404	0	10	5/23/2007	3:16:08 PM	2.67E+04	30	1	0	56	CS313	DRT02	SH1S1	G01DA	LAB01	2		0	5.97E+01
CS313 DRT02	95359	JEJ5742	162404	0	11	5/23/2007	3:17:32 PM	1.68E+04	30	1	0	56	CS313	DRT02	SH1S1	G01DA	LAB01	3		0	3.75E+01

Reviewed By: J. Long Date: 6-1-07 Approved By: J. Williams Date: 6/5/07

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL051707-001	2	JLM3848	5/25/2007	11:56 AM	A4024 101C1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
CS313 DTR01	95359	JEJ5742	162404	0	0	5/17/2007	6:58:50 AM	1.18E+05	600	1	0	53	CS313	DTR01	SH1S1	G01AA	LAB01	1	0		1.32E+01
CS313 DTR01	95359	JEJ5742	162404	0	1	5/17/2007	7:01:56 AM	5.71E+05	30	1	0	53	CS313	DTR01	SH1S1	G01BA	LAB01	1	0		1.28E+03
CS313 DTR01	95359	JEJ5742	162404	0	2	5/17/2007	7:03:40 AM	2.73E+04	30	1	0	53	CS313	DTR01	SH1S1	G01BA	LAB01	2	0		6.10E+01
CS313 DTR01	95359	JEJ5742	162404	0	3	5/17/2007	7:05:34 AM	1.73E+04	30	1	0	53	CS313	DTR01	SH1S1	G01BA	LAB01	3	0		3.86E+01
A4024 101C1	95359	JEJ5742	162404	0	4	5/17/2007	9:15:48 AM	4.91E+03	12	1	0	53	A4024	101C1	SH1S1	G01FA	SH1	1	0		2.75E+01
A4024 101C1	95359	JEJ5742	162404	0	5	5/17/2007	12:00:54 PM	4.86E+03	12	1	0	53	A4024	101C1	SH1S1	G01FA	SH1	2	0		2.72E+01
A4024 101C1	95359	JEJ5742	162404	0	6	5/17/2007	2:37:44 PM	4.82E+03	12	1	0	53	A4024	101C1	SH1S1	G01FA	SH1	3	0		2.69E+01
CS313 DTR02	95359	JEJ5742	162404	0	7	5/17/2007	3:10:50 PM	1.17E+05	600	1	0	53	CS313	DTR02	SH1S1	G01CA	LAB01	1	0		1.31E+01
CS313 DTR02	95359	JEJ5742	162404	0	8	5/17/2007	3:13:00 PM	4.80E+05	30	1	0	53	CS313	DTR02	SH1S1	G01CA	LAB01	1	0		1.07E+03
CS313 DTR02	95359	JEJ5742	162404	0	9	5/17/2007	3:14:56 PM	2.82E+04	30	1	0	53	CS313	DTR02	SH1S1	G01CA	LAB01	2	0		6.31E+01
CS313 DTR02	95359	JEJ5742	162404	0	10	5/17/2007	3:16:08 PM	1.73E+04	30	1	0	53	CS313	DTR02	SH1S1	G01CA	LAB01	3	0		3.88E+01

Reviewed By:

J. Long

Date:

5-25-07

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J. M. L. L.

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5/25/07

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL051807-001	2	JLM3848	5/25/2007	11:56 AM	A4024 101C1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
CS313 DRT01	95359	JEJ5742	162404	0	0	5/18/2007	6:48:06 AM	1.24E+05	600	1	0	54	CS313	DRT01	SH1S1	G01AA	LAB01	1	0	1.39E+01	
CS313 DRT01	95359	JEJ5742	162404	0	1	5/18/2007	6:51:54 AM	5.76E+05	30	1	0	54	CS313	DRT01	SH1S1	G01BA	LAB01	1	0	1.29E+03	
CS313 DRT01	95359	JEJ5742	162404	0	2	5/18/2007	6:53:14 AM	2.68E+04	30	1	0	54	CS313	DRT01	SH1S1	G01BA	LAB01	2	0	6.00E+01	
CS313 DRT01	95359	JEJ5742	162404	0	3	5/18/2007	6:55:54 AM	1.71E+04	30	1	0	54	CS313	DRT01	SH1S1	G01BA	LAB01	3	0	3.82E+01	
A4024 101C1	95359	JEJ5742	162404	0	4	5/18/2007	9:16:46 AM	5.18E+03	12	1	0	54	A4024	101C1	SH1S1	G01FA	SH1	4	0	2.90E+01	
A4024 101C1	95359	JEJ5742	162404	0	5	5/18/2007	10:54:30 AM	5.13E+03	12	1	0	54	A4024	101C1	SH1S1	G01FA	SH1	5	0	2.87E+01	
A4024 101C1	95359	JEJ5742	162404	0	6	5/18/2007	12:27:44 PM	4.88E+03	12	1	0	54	A4024	101C1	SH1S1	G01FA	SH1	6	0	2.73E+01	
A4024 101C1	95359	JEJ5742	162404	0	7	5/18/2007	1:12:02 PM	5.06E+03	12	1	0	54	A4024	101C1	SH1S1	G01FA	SH1	7	0	2.83E+01	
CS313 101C1	95359	JEJ5742	162404	0	8	5/18/2007	2:18:56 PM	1.17E+05	600	1	0	54	CS313	101C1	SH1S1	G01CA	LAB01	1	0	1.31E+01	
CS313 DRT02	95359	JEJ5742	162404	0	9	5/18/2007	2:21:40 PM	5.54E+05	30	1	0	54	CS313	DRT02	SH1S1	G01DA	LAB01	1	0	1.24E+03	
CS313 DRT02	95359	JEJ5742	162404	0	10	5/18/2007	2:23:22 PM	2.72E+04	30	1	0	54	CS313	DRT02	SH1S1	G01DA	LAB01	2	0	6.09E+01	
CS313 DRT02	95359	JEJ5742	162404	0	11	5/18/2007	2:24:48 PM	1.68E+04	30	1	0	54	CS313	DRT02	SH1S1	G01DA	LAB01	3	0	3.75E+01	

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DL051507-001	2	JLM3848	5/25/2007	11:56 AM	A4024 101C1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
CS313 DRT01	95359	JEJ5742	162404	0	0	5/15/2007	6:50:46 AM	1.20E+05	600	1	0	51	CS313	DRT01	SH1S1	G01AA	LAB01	1	0	0	1.34E+01
CS313 DRT01	95359	JEJ5742	162404	0	1	5/15/2007	6:53:08 AM	5.75E+05	30	1	0	51	CS313	DRT01	SH1S1	G01BA	LAB01	1	0	0	1.29E+03
CS313 DRT01	95359	JEJ5742	162404	0	2	5/15/2007	6:55:12 AM	2.91E+04	30	1	0	51	CS313	DRT01	SH1S1	G01BA	LAB01	2	0	0	6.51E+01
CS313 DRT01	95359	JEJ5742	162404	0	3	5/15/2007	6:56:18 AM	1.78E+04	30	1	0	51	CS313	DRT01	SH1S1	G01BA	LAB01	3	0	0	3.98E+01
A4024 101C1	95359	JEJ5742	162404	0	4	5/15/2007	1:38:42 PM	1.26E+04	30	1	0	51	A4024	101C1	SH1S1	G01FA	SH1	16	0	0	2.82E+01
CS313 101C1	95359	JEJ5742	162404	0	5	5/15/2007	3:28:06 PM	1.18E+05	600	1	0	51	CS313	DRT02	SH1S1	G01CA	LAB01	1	0	0	1.32E+01
CS313 101C1	95359	JEJ5742	162404	0	6	5/15/2007	3:30:02 PM	5.85E+05	30	1	0	51	CS313	DRT02	SH1S1	G01DA	LAB01	1	0	0	1.31E+03
CS313 101C1	95359	JEJ5742	162404	0	7	5/15/2007	3:31:46 PM	2.72E+04	30	1	0	51	CS313	DRT02	SH1S1	G01DA	LAB01	2	0	0	6.08E+01
CS313 101C1	95359	JEJ5742	162404	0	8	5/15/2007	3:33:32 PM	1.75E+04	30	1	0	51	CS313	DRT02	SH1S1	G01DA	LAB01	3	0	0	3.91E+01

Reviewed By:

J. Long

Date:

5-25-07

Approved By:

J. McAdam

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5/25/07

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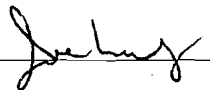
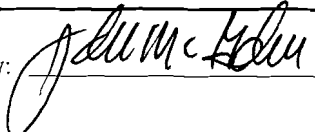
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Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate nR/hr
CS313 DRT01	95359	JEJ5742	162404	0	0	5/14/2007	7:36:06 AM	1.19E+05	600	1	0	50	CS313	DRT01	SA1S1	G01AA	LAB01	1	0	0	1.33E+01
CS313 DRT01	95359	JEJ5742	162404	0	1	5/14/2007	7:39:34 AM	5.79E+05	30	1	0	50	CS313	DRT01	SA1S1	G01BA	LAB01	1	0	0	1.30E+03
CS313 DRT01	95359	JEJ5742	162404	0	2	5/14/2007	7:42:54 AM	2.89E+04	30	1	0	50	CS313	DRT01	SA1S1	G01BA	LAB01	2	0	0	6.46E+01
CS313 DRT01	95359	JEJ5742	162404	0	3	5/14/2007	7:45:34 AM	1.75E+04	30	1	0	50	CS313	DRT01	SA1S1	G01BA	LAB01	3	0	0	3.91E+01
A4024 101C1	95359	JEJ5742	162404	0	5	5/14/2007	2:30:06 PM	2.95E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	1	0	0	1.65E+01
A4024 101C1	95359	JEJ5742	162404	0	6	5/14/2007	2:30:44 PM	2.63E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	1	0	0	1.47E+01
A4024 101C1	95359	JEJ5742	162404	0	7	5/14/2007	2:31:18 PM	2.97E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	2	0	0	1.66E+01
A4024 101C1	95359	JEJ5742	162404	0	8	5/14/2007	2:31:46 PM	2.71E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	2	0	0	1.51E+01
A4024 101C1	95359	JEJ5742	162404	0	9	5/14/2007	2:32:20 PM	3.01E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	3	0	0	1.68E+01
A4024 101C1	95359	JEJ5742	162404	0	10	5/14/2007	2:32:42 PM	2.94E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	3	0	0	1.64E+01
A4024 101C1	95359	JEJ5742	162404	0	11	5/14/2007	2:33:14 PM	3.08E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	4	0	0	1.72E+01
A4024 101C1	95359	JEJ5742	162404	0	12	5/14/2007	2:33:38 PM	2.72E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	4	0	0	1.52E+01
A4024 101C1	95359	JEJ5742	162404	0	13	5/14/2007	2:34:14 PM	2.76E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	5	0	0	1.54E+01
A4024 101C1	95359	JEJ5742	162404	0	14	5/14/2007	2:34:36 PM	2.69E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	5	0	0	1.51E+01
A4024 101C1	95359	JEJ5742	162404	0	15	5/14/2007	2:35:08 PM	2.70E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	6	0	0	1.51E+01
A4024 101C1	95359	JEJ5742	162404	0	16	5/14/2007	2:35:30 PM	2.62E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	6	0	0	1.46E+01
A4024 101C1	95359	JEJ5742	162404	0	17	5/14/2007	2:35:58 PM	2.85E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	7	0	0	1.59E+01
A4024 101C1	95359	JEJ5742	162404	0	18	5/14/2007	2:36:26 PM	2.59E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	7	0	0	1.45E+01
A4024 101C1	95359	JEJ5742	162404	0	19	5/14/2007	2:37:28 PM	2.92E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	8	0	0	1.63E+01
A4024 101C1	95359	JEJ5742	162404	0	20	5/14/2007	2:37:52 PM	2.63E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	8	0	0	1.47E+01
A4024 101C1	95359	JEJ5742	162404	0	21	5/14/2007	2:38:24 PM	2.93E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	9	0	0	1.64E+01
A4024 101C1	95359	JEJ5742	162404	0	22	5/14/2007	2:38:46 PM	2.63E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	9	0	0	1.47E+01
A4024 101C1	95359	JEJ5742	162404	0	23	5/14/2007	2:39:14 PM	2.87E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	10	0	0	1.61E+01
A4024 101C1	95359	JEJ5742	162404	0	24	5/14/2007	2:39:38 PM	2.62E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	10	0	0	1.47E+01
A4024 101C1	95359	JEJ5742	162404	0	25	5/14/2007	2:40:08 PM	2.80E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	11	0	0	1.57E+01
A4024 101C1	95359	JEJ5742	162404	0	26	5/14/2007	2:40:36 PM	2.56E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	11	0	0	1.43E+01

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL051407-003	2	JLM3848	5/14/2007	7:20 PM	A4024 101C1	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
A4024 101C1	95359	JEJ5742	162404	0	27	5/14/2007	2:41:04 PM	2.85E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	12		0	1.60E+01
A4024 101C1	95359	JEJ5742	162404	0	28	5/14/2007	2:41:28 PM	2.65E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	12		0	1.48E+01
A4024 101C1	95359	JEJ5742	162404	0	29	5/14/2007	2:41:56 PM	2.77E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	13		0	1.55E+01
A4024 101C1	95359	JEJ5742	162404	0	30	5/14/2007	2:42:20 PM	2.78E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	13		0	1.56E+01
A4024 101C1	95359	JEJ5742	162404	0	31	5/14/2007	2:42:46 PM	2.75E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	14		0	1.54E+01
A4024 101C1	95359	JEJ5742	162404	0	32	5/14/2007	2:43:10 PM	2.79E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	14		0	1.56E+01
A4024 101C1	95359	JEJ5742	162404	0	33	5/14/2007	2:43:40 PM	2.85E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	15		0	1.60E+01
A4024 101C1	95359	JEJ5742	162404	0	34	5/14/2007	2:44:12 PM	2.82E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	15		0	1.58E+01
A4024 101C1	95359	JEJ5742	162404	0	35	5/14/2007	2:44:44 PM	2.87E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	16		0	1.61E+01
A4024 101C1	95359	JEJ5742	162404	0	36	5/14/2007	2:45:06 PM	2.82E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	16		0	1.58E+01
A4024 101C1	95359	JEJ5742	162404	0	37	5/14/2007	2:45:34 PM	2.83E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	17		0	1.58E+01
A4024 101C1	95359	JEJ5742	162404	0	38	5/14/2007	2:45:56 PM	2.77E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	17		0	1.55E+01
A4024 101C1	95359	JEJ5742	162404	0	39	5/14/2007	2:46:30 PM	2.81E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	18		0	1.57E+01
A4024 101C1	95359	JEJ5742	162404	0	40	5/14/2007	2:46:56 PM	2.65E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	18		0	1.48E+01
A4024 101C1	95359	JEJ5742	162404	0	41	5/14/2007	2:47:22 PM	2.96E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	19		0	1.65E+01
A4024 101C1	95359	JEJ5742	162404	0	42	5/14/2007	2:47:46 PM	2.62E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	19		0	1.46E+01
A4024 101C1	95359	JEJ5742	162404	0	43	5/14/2007	2:48:16 PM	2.77E+03	12	1	0	50	A4024	101C1	SA1S1	G01FA	S1	20		0	1.55E+01
A4024 101C1	95359	JEJ5742	162404	0	44	5/14/2007	2:48:42 PM	2.55E+03	12	1	0	50	A4024	101C1	SA1S1	G02FA	S1	20		0	1.43E+01
CS313 DRT02	95359	JEJ5742	162404	0	45	5/14/2007	3:01:28 PM	1.11E+05	600	1	0	50	CS313	DRT02	SA1S1	G01CA	LAB01	1		0	1.25E+01
CS313 DRT02	95359	JEJ5742	162404	0	46	5/14/2007	3:03:30 PM	5.80E+05	30	1	0	50	CS313	DRT02	SA1S1	G01DA	LAB01	1		0	1.30E+03
CS313 DRT02	95359	JEJ5742	162404	0	47	5/14/2007	3:04:50 PM	2.87E+04	30	1	0	50	CS313	DRT02	SA1S1	G01DA	LAB01	2		0	6.42E+01
CS313 DRT02	95359	JEJ5742	162404	0	48	5/14/2007	3:05:50 PM	1.77E+04	30	1	0	50	CS313	DRT02	SA1S1	G01DA	LAB01	3		0	3.97E+01

Reviewed By:  Date: 5-15-07 Approved By:  Date: 5/15/07

Measurement Database Download Report
Exposure Rate Measurements

6/5/2007

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DL053107-001	2	JLM3848	6/5/2007	9:40 AM	A4024 101C2	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
CS313 DRT01	95359	JEJ5742	162404	0	0	5/30/2007	6:47:06 AM	1.32E+05	600	1	0	60	CS313	DRT01	SH1S1	G01AA	LAB01	1		0	1.47E+01
CS313 DRT01	95359	JEJ5742	162404	0	1	5/30/2007	6:52:44 AM	5.23E+05	30	1	0	60	CS313	DRT01	SH1S1	G01BA	LAB01	1		0	1.17E+03
CS313 DRT01	95359	JEJ5742	162404	0	2	5/30/2007	6:54:24 AM	2.90E+04	30	1	0	60	CS313	DRT01	SH1S1	G01BA	LAB01	2		0	6.50E+01
CS313 DRT01	95359	JEJ5742	162404	0	3	5/30/2007	6:55:38 AM	1.82E+04	30	1	0	60	CS313	DRT01	SH1S1	G01BA	LAB01	3		0	4.07E+01
A4024 101C2	95359	JEJ5742	162404	0	4	5/30/2007	12:44:02 PM	3.52E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	1		0	1.97E+01
A4024 101C2	95359	JEJ5742	162404	0	5	5/30/2007	12:44:24 PM	3.36E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	1		0	1.88E+01
A4024 101C2	95359	JEJ5742	162404	0	6	5/30/2007	12:44:46 PM	3.55E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	2		0	1.99E+01
A4024 101C2	95359	JEJ5742	162404	0	7	5/30/2007	12:45:12 PM	3.36E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	2		0	1.88E+01
A4024 101C2	95359	JEJ5742	162404	0	8	5/30/2007	12:45:36 PM	3.77E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	3		0	2.11E+01
A4024 101C2	95359	JEJ5742	162404	0	9	5/30/2007	12:46:00 PM	3.29E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	3		0	1.84E+01
A4024 101C2	95359	JEJ5742	162404	0	10	5/30/2007	12:46:24 PM	3.29E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	4		0	1.84E+01
A4024 101C2	95359	JEJ5742	162404	0	11	5/30/2007	12:46:46 PM	3.17E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	4		0	1.78E+01
A4024 101C2	95359	JEJ5742	162404	0	12	5/30/2007	12:47:10 PM	3.52E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	5		0	1.97E+01
A4024 101C2	95359	JEJ5742	162404	0	13	5/30/2007	12:47:34 PM	3.22E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	5		0	1.80E+01
A4024 101C2	95359	JEJ5742	162404	0	14	5/30/2007	12:47:58 PM	3.86E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	6		0	2.16E+01
A4024 101C2	95359	JEJ5742	162404	0	15	5/30/2007	12:48:22 PM	3.26E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	6		0	1.82E+01
A4024 101C2	95359	JEJ5742	162404	0	16	5/30/2007	12:48:48 PM	3.58E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	7		0	2.01E+01
A4024 101C2	95359	JEJ5742	162404	0	17	5/30/2007	12:49:36 PM	3.11E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	7		0	1.74E+01
A4024 101C2	95359	JEJ5742	162404	0	18	5/30/2007	12:50:10 PM	3.31E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	8		0	1.85E+01
A4024 101C2	95359	JEJ5742	162404	0	19	5/30/2007	12:50:42 PM	2.98E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	8		0	1.67E+01
A4024 101C2	95359	JEJ5742	162404	0	20	5/30/2007	12:51:08 PM	3.14E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	9		0	1.75E+01
A4024 101C2	95359	JEJ5742	162404	0	21	5/30/2007	12:51:30 PM	2.96E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	9		0	1.66E+01
A4024 101C2	95359	JEJ5742	162404	0	22	5/30/2007	12:52:00 PM	3.05E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	10		0	1.71E+01
A4024 101C2	95359	JEJ5742	162404	0	23	5/30/2007	12:52:26 PM	2.85E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	10		0	1.60E+01
A4024 101C2	95359	JEJ5742	162404	0	24	5/30/2007	12:52:50 PM	3.24E+03	12	1	0	60	A4024	101C2	SH1S1	G01FA	S1	11		0	1.81E+01
A4024 101C2	95359	JEJ5742	162404	0	25	5/30/2007	12:53:10 PM	2.94E+03	12	1	0	60	A4024	101C2	SH1S1	G02FA	S1	11		0	1.64E+01

Measurement Database Download Report
Exposure Rate Measurements

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Download ID	Station Number	User ID	Download Date	Download Time	Survey Package ID	Detector Model Number	Detector Serial Number	Gamma Cal Factor													
DLO53107-001	2	JLM3848	6/5/2007	9:40 AM	A4024 101C2	44-10	162404	5.36E+10													
Package ID	M2350 Serial Number	User ID	Detector Serial Number	Detector Setup Number	Sample No	Date	Time	Logged Count	Count Time (secs)	Logging Mode	Window On/Off	Scaler Alarm	LC1	LC2	LC3	LC4	LC5	LC6	L7	Measurement Location Number	Exposure Rate uR/hr
A4024 101C2	95359	JEJ5742	162404	0	26	5/30/2007	12:53:34 PM	3.40E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	12		0	1.90E+01	
A4024 101C2	95359	JEJ5742	162404	0	27	5/30/2007	12:54:04 PM	3.03E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	12		0	1.70E+01	
A4024 101C2	95359	JEJ5742	162404	0	28	5/30/2007	12:54:28 PM	3.26E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	13		0	1.82E+01	
A4024 101C2	95359	JEJ5742	162404	0	29	5/30/2007	12:54:52 PM	2.82E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	13		0	1.58E+01	
A4024 101C2	95359	JEJ5742	162404	0	30	5/30/2007	12:55:12 PM	3.42E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	14		0	1.91E+01	
A4024 101C2	95359	JEJ5742	162404	0	31	5/30/2007	12:55:36 PM	2.91E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	14		0	1.63E+01	
A4024 101C2	95359	JEJ5742	162404	0	32	5/30/2007	12:56:10 PM	3.13E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	15		0	1.75E+01	
A4024 101C2	95359	JEJ5742	162404	0	33	5/30/2007	12:56:32 PM	2.92E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	15		0	1.63E+01	
A4024 101C2	95359	JEJ5742	162404	0	34	5/30/2007	12:56:54 PM	3.04E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	16		0	1.70E+01	
A4024 101C2	95359	JEJ5742	162404	0	35	5/30/2007	12:57:16 PM	3.01E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	16		0	1.68E+01	
A4024 101C2	95359	JEJ5742	162404	0	36	5/30/2007	12:57:40 PM	3.00E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	17		0	1.68E+01	
A4024 101C2	95359	JEJ5742	162404	0	38	5/30/2007	12:58:34 PM	2.92E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	17		0	1.63E+01	
A4024 101C2	95359	JEJ5742	162404	0	39	5/30/2007	12:58:56 PM	3.11E+03	12	1	0	60	A4024 101C2	SH1S1	G01FA	S1	18		0	1.74E+01	
A4024 101C2	95359	JEJ5742	162404	0	40	5/30/2007	12:59:18 PM	3.01E+03	12	1	0	60	A4024 101C2	SH1S1	G02FA	S1	18		0	1.68E+01	
CS313 DRT02	95359	JEJ5742	162404	0	43	5/30/2007	2:02:30 PM	1.20E+05	600	1	0	60	CS313 DRT02	SH1S1	G01CA	LAB01	1		0	1.34E+01	
CS313 DRT02	95359	JEJ5742	162404	0	44	5/30/2007	2:07:08 PM	5.65E+05	30	1	0	60	CS313 DRT02	SH1S1	G01DA	LAB01	1		0	1.26E+03	
CS313 DRT02	95359	JEJ5742	162404	0	45	5/30/2007	2:09:20 PM	2.84E+04	30	1	0	60	CS313 DRT02	SH1S1	G01DA	LAB01	2		0	6.35E+01	
CS313 DRT02	95359	JEJ5742	162404	0	46	5/30/2007	2:11:02 PM	1.72E+04	30	1	0	60	CS313 DRT02	SH1S1	G01DA	LAB01	3		0	3.85E+01	

Reviewed By: John Gulu Date: 6/5/07 Approved By: Q ml Date: 6/5/07

**SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA**

5/24/2007

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Survey Package Appendix C – Survey Results

Survey Package: A4024 101C2

Package: Environ

Survey Area Name: SETF Paved Yard and Adjacent Soil Areas

Survey Unit Name: Buried Waste Tank/Vault Location

Section 5.0

Sample Analysis Results – Alpha/Beta Counter

0 Pages

**SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA**

5/24/2007

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Survey Package Appendix C – Survey Results

Survey Package:	A4024 101C2	Package:	Environ
Survey Area Name:	SETF Paved Yard and Adjacent Soil Areas		
Survey Unit Name:	Buried Waste Tank/Vault Location		

**Section 6.0
Sample Analysis Results – Gamma Spectroscopy
21 Pages**

Gamma Spectrometry



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/06/07
Receipt Date 06/21/07

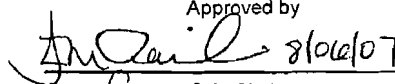
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-01 Client ID A4024 101C1 SH1S1-1 Product GAMMA SPECTROMETRY
Reference Date 05/17/07 Analysis Date 08/06/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.209E+00 +/- 4.7E-02	6.5E-02	7.4E-02		bc
Ag-108m	3E-03 +/- 9.2E-03	4.6E-03	1.5E-02		
Ag-110m	-7E-03 +/- 1.6E-02	8.2E-03	2.8E-02		
Ba-140	-9E-01 +/- 1.0E+00	5.2E-01	1.9E+00		
Be-7	4E-02 +/- 2.4E-01	1.2E-01	4.0E-01		
Ce-141	-7E-02 +/- 1.4E-01	7.2E-02	2.4E-01		
Ce-144	-2.3E-01 +/- 1.9E-01	9.4E-02	3.1E-01		
Co-57	5E-02 +/- 1.0E-01	5.1E-02	1.7E-01		
Co-58	-1.9E-02 +/- 2.2E-02	1.1E-02	3.8E-02		
Co-60	2.1E-03 +/- 8.6E-03	4.3E-03	1.9E-02	2.0E-02	
Cr-51	2.1E-01 +/- 6.7E-01	3.3E-01	1.1E+00		
Cs-134	-3.5E-02 +/- 4.1E-02	2.1E-02	6.9E-02	8.0E-02	
Cs-137	-1.1E-02 +/- 1.2E-02	5.8E-03	2.0E-02	3.0E-02	
Eu-152	-1.5E-02 +/- 3.3E-02	1.6E-02	5.5E-02	1.0E-01	
Eu-154	-2E-03 +/- 3.7E-02	1.9E-02	6.3E-02	1.0E-01	
Fe-59	-9E-03 +/- 7.9E-02	3.9E-02	1.3E-01		
K-40	2.316E+01 +/- 5.3E-01	1.2E+00	1.7E-01	3.0E-01	bc
La-140	-1.1E+00 +/- 1.2E+00	6.0E-01	2.2E+00		
Mn-54	6E-03 +/- 1.3E-02	6.6E-03	2.2E-02	1.0E-01	
Na-22	4E-03 +/- 1.4E-02	6.8E-03	2.3E-02	4.0E-02	
Nb-94	5.2E-03 +/- 9.8E-03	4.9E-03	1.6E-02		
Nb-95	5E-02 +/- 6.8E-02	3.4E-02	1.1E-01		
Ru-103	2.3E-02 +/- 3.7E-02	1.9E-02	6.2E-02		
Ru-106	-3E-02 +/- 1.1E-01	5.3E-02	1.8E-01		
Sb-124	3.6E-02 +/- 3.7E-02	1.8E-02	5.9E-02		
Sb-125	1.9E-02 +/- 3.0E-02	1.5E-02	5.0E-02		
Se-75	-6E-03 +/- 2.1E-02	1.1E-02	3.5E-02		
Zn-65	-8.2E-02 +/- 6.7E-02	3.4E-02	1.1E-01		
Zr-95	1.7E-02 +/- 5.4E-02	2.7E-02	9.0E-02		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/08/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

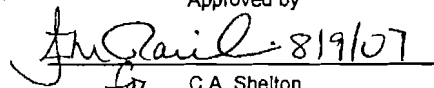
Lab. Sample No. L12562-02 Client ID A4024 101C1 SH1S1-2 Product GAMMA SPECTROMETRY
Reference Date 05/17/07 Analysis Date 08/06/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.059E+00 +/- 3.5E-02	5.6E-02	6.5E-02		bc
Ag-108m	9E-04 +/- 6.7E-03	3.3E-03	1.1E-02		
Ag-110m	-1.1E-02 +/- 1.3E-02	6.4E-03	2.2E-02		
Ba-140	-7.8E-01 +/- 7.3E-01	3.7E-01	1.4E+00		
Be-7	-1E-02 +/- 1.6E-01	8.2E-02	2.8E-01		
Ce-141	-5E-02 +/- 1.0E-01	5.2E-02	1.7E-01		
Ce-144	1E-02 +/- 5.3E-02	2.6E-02	8.7E-02		
Co-57	-4E-03 +/- 5.4E-02	2.7E-02	9.0E-02		
Co-58	-1E-03 +/- 1.7E-02	8.6E-03	2.9E-02		
Co-60	-1.9E-03 +/- 7.4E-03	3.7E-03	1.6E-02	2.0E-02	
Cr-51	-1.4E-01 +/- 4.0E-01	2.0E-01	6.7E-01		
Cs-134	7E-03 +/- 7.2E-03	3.6E-03	1.2E-02	8.0E-02	
Cs-137	6.2E-03 +/- 8.2E-03	4.1E-03	1.4E-02	3.0E-02	
Eu-152	1.4E-02 +/- 2.0E-02	1.0E-02	3.3E-02	1.0E-01	
Eu-154	2E-02 +/- 3.2E-02	1.6E-02	5.3E-02	1.0E-01	
Fe-59	-1.5E-02 +/- 6.3E-02	3.1E-02	1.1E-01		
K-40	2.105E+01 +/- 4.3E-01	1.1E+00	1.5E-01	3.0E-01	bc
La-140	-8.9E-01 +/- 8.3E-01	4.2E-01	1.6E+00		
Mn-54	1.5E-02 +/- 3.9E-02	1.9E-02	6.4E-02	1.0E-01	
Na-22	7E-03 +/- 1.2E-02	6.0E-03	2.0E-02	4.0E-02	
Nb-94	1.03E-02 +/- 8.0E-03	4.1E-03	1.3E-02		
Nb-95	0E+00 +/- 5.8E-02	2.9E-02	9.7E-02		
Ru-103	-2.8E-02 +/- 2.7E-02	1.4E-02	4.7E-02		
Ru-106	1E-03 +/- 7.6E-02	3.8E-02	1.3E-01		
Sb-124	3.9E-02 +/- 3.0E-02	1.5E-02	4.7E-02		
Sb-125	2E-03 +/- 2.1E-02	1.1E-02	3.5E-02		
Se-75	2E-03 +/- 1.4E-02	6.8E-03	2.3E-02		
Zn-65	-1E-02 +/- 5.5E-02	2.7E-02	9.1E-02		
Zr-95	6E-02 +/- 1.6E-01	7.8E-02	2.6E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

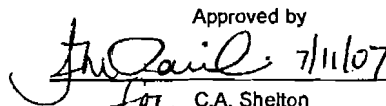
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-03 Client ID A4024 101C1 SH1S1-3 Product GAMMA SPECTROMETRY
Reference Date 05/17/07 Analysis Date 06/27/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.112E+00 +/- 3.4E-02	5.8E-02	5.8E-02		bc
Ag-108m	-3E-04 +/- 6.2E-03	3.1E-03	1.0E-02		
Ag-110m	5E-03 +/- 1.1E-02	5.6E-03	1.9E-02		
Ba-140	-1.07E-01 +/- 6.8E-02	3.4E-02	1.3E-01		
Be-7	-5E-02 +/- 1.3E-01	6.7E-02	2.3E-01		
Ce-141	-2.1E-02 +/- 2.8E-02	1.4E-02	4.8E-02		
Ce-144	5.7E-02 +/- 5.9E-02	3.0E-02	9.7E-02		
Co-57	-5.5E-02 +/- 6.0E-02	3.0E-02	1.0E-01		
Co-58	-1.2E-02 +/- 1.0E-02	5.3E-03	1.8E-02		
Co-60	-1.5E-03 +/- 6.5E-03	3.2E-03	1.4E-02	2.0E-02	
Cr-51	1.3E-01 +/- 1.6E-01	8.0E-02	2.6E-01		
Cs-134	4E-03 +/- 7.2E-03	3.6E-03	1.2E-02	8.0E-02	
Cs-137	0E+00 +/- 1.3E-02	6.5E-03	2.2E-02	3.0E-02	
Eu-152	2E-03 +/- 2.1E-02	1.1E-02	3.5E-02	1.0E-01	
Eu-154	1.3E-02 +/- 2.6E-02	1.3E-02	4.3E-02	1.0E-01	
Fe-59	-4.3E-02 +/- 3.2E-02	1.6E-02	5.6E-02		
K-40	2.196E+01 +/- 3.9E-01	1.1E+00	1.2E-01	3.0E-01	bc
La-140	-1.23E-01 +/- 7.8E-02	3.9E-02	1.5E-01		
Mn-54	1E-03 +/- 2.2E-02	1.1E-02	3.7E-02	1.0E-01	
Na-22	4.5E-03 +/- 9.4E-03	4.7E-03	1.6E-02	4.0E-02	
Nb-94	4.8E-03 +/- 6.8E-03	3.4E-03	1.1E-02		
Nb-95	4E-03 +/- 2.3E-02	1.2E-02	3.9E-02		
Ru-103	-8E-03 +/- 1.5E-02	7.3E-03	2.5E-02		
Ru-106	4.2E-02 +/- 7.3E-02	3.7E-02	1.2E-01		
Sb-124	-1E-03 +/- 1.6E-02	8.1E-03	2.8E-02		
Sb-125	-1E-03 +/- 2.0E-02	1.0E-02	3.3E-02		
Se-75	-1.7E-02 +/- 1.3E-02	6.4E-03	2.2E-02		
Zn-65	-6E-03 +/- 4.2E-02	2.1E-02	6.9E-02		
Zr-95	7E-03 +/- 2.1E-02	1.1E-02	3.5E-02		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
 29 Research Drive
 Westboro, MA 01581
 508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/06/07
Receipt Date 06/21/07

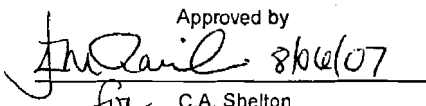
AREVA NP Inc
 AREVA NP Federal D&D Group
 400 South Tryon Street
 Charlotte, NC 28285

Lab. Sample No. L12562-04 **Client ID** A4024 101C1 SH1S1-4 **Product** GAMMA SPECTROMETRY
Reference Date 05/18/07 **Analysis Date** 08/06/07 **Matrix** Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.176E+00 +/- 4.1E-02	6.2E-02	6.8E-02		bc
Ag-108m	4E-03 +/- 8.1E-03	4.1E-03	1.4E-02		
Ag-110m	3E-03 +/- 1.4E-02	7.2E-03	2.4E-02		
Ba-140	6.8E-01 +/- 8.4E-01	4.2E-01	1.5E+00		
Be-7	2.8E-01 +/- 2.1E-01	1.0E-01	3.6E-01		
Ce-141	1.13E-01 +/- 8.8E-02	4.4E-02	1.4E-01		
Ce-144	1E-02 +/- 8.7E-02	4.3E-02	1.4E-01		
Co-57	1E-03 +/- 8.9E-02	4.5E-02	1.5E-01		
Co-58	1E-03 +/- 3.1E-02	1.6E-02	5.2E-02		
Co-60	1.5E-03 +/- 7.9E-03	4.0E-03	1.8E-02	2.0E-02	
Cr-51	2E-02 +/- 5.8E-01	2.9E-01	9.6E-01		
Cs-134	4.5E-02 +/- 3.7E-02	1.9E-02	6.2E-02	8.0E-02	
Cs-137	8E-03 +/- 1.7E-02	8.7E-03	2.9E-02	3.0E-02	
Eu-152	1.5E-02 +/- 2.8E-02	1.4E-02	4.8E-02	1.0E-01	
Eu-154	2.6E-02 +/- 3.3E-02	1.6E-02	5.7E-02	1.0E-01	
Fe-59	1.1E-01 +/- 1.1E-01	5.3E-02	1.7E-01		
K-40	2.15E+01 +/- 4.5E-01	1.1E+00	1.6E-01	3.0E-01	bc
La-140	7.8E-01 +/- 9.7E-01	4.9E-01	1.8E+00		
Mn-54	2E-03 +/- 3.0E-02	1.5E-02	4.9E-02	1.0E-01	
Na-22	3E-03 +/- 1.2E-02	6.0E-03	2.0E-02	4.0E-02	
Nb-94	6.9E-03 +/- 8.6E-03	4.3E-03	1.4E-02		
Nb-95	1.3E-02 +/- 5.6E-02	2.8E-02	9.3E-02		
Ru-103	1.9E-02 +/- 3.1E-02	1.5E-02	5.3E-02		
Ru-106	5E-02 +/- 9.6E-02	4.8E-02	1.6E-01		
Sb-124	1.9E-02 +/- 3.2E-02	1.6E-02	5.4E-02		
Sb-125	1E-02 +/- 2.6E-02	1.3E-02	4.4E-02		
Se-75	1.9E-02 +/- 1.8E-02	9.1E-03	3.1E-02		
Zn-65	6.8E-02 +/- 5.7E-02	2.9E-02	9.7E-02		
Zr-95	2.3E-02 +/- 3.7E-02	1.9E-02	6.2E-02		

- Flags:**
- a The measured MDC is greater than the required MDC
 - b The activity concentration is greater than three times its one sigma counting uncertainty.
 - c Peak was found

Reporting Level Ratio:

Approved by

 for C.A. Shelton
 Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/15/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-05 Client ID A4024 101C1 SH1S1-5
Reference Date 05/18/07 Analysis Date 06/28/07

Product GAMMA SPECTROMETRY
Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.18E+00 +/- 3.2E-02	6.1E-02	5.5E-02		bc
Ag-108m	-2.2E-03 +/- 6.0E-03	3.0E-03	1.0E-02		
Ag-110m	2E-03 +/- 1.0E-02	5.2E-03	1.8E-02		
Ba-140	-1.61E-01 +/- 8.6E-02	4.4E-02	1.6E-01		
Be-7	-4.3E-02 +/- 9.1E-02	4.5E-02	1.5E-01		
Ce-141	1.9E-02 +/- 2.5E-02	1.3E-02	4.2E-02		
Ce-144	-6E-03 +/- 4.4E-02	2.2E-02	7.3E-02		
Co-57	-2.8E-02 +/- 4.5E-02	2.3E-02	7.6E-02		
Co-58	-5E-03 +/- 1.1E-02	5.5E-03	1.9E-02		
Co-60	8E-04 +/- 6.6E-03	3.3E-03	1.4E-02	2.0E-02	
Cr-51	1E-02 +/- 1.4E-01	6.8E-02	2.3E-01		
Cs-134	3E-04 +/- 6.4E-03	3.2E-03	1.1E-02	8.0E-02	
Cs-137	2E-04 +/- 7.5E-03	3.7E-03	1.3E-02	3.0E-02	
Eu-152	-1.9E-02 +/- 1.8E-02	9.1E-03	3.1E-02	1.0E-01	
Eu-154	-2E-03 +/- 3.0E-02	1.5E-02	5.1E-02	1.0E-01	
Fe-59	-1.6E-02 +/- 3.2E-02	1.6E-02	5.5E-02		
K-40	2.155E+01 +/- 3.8E-01	1.1E+00	1.3E-01	3.0E-01	bc
La-140	-1.86E-01 +/- 9.9E-02	5.0E-02	1.9E-01		
Mn-54	5E-03 +/- 2.0E-02	1.0E-02	3.3E-02	1.0E-01	
Na-22	2E-03 +/- 1.1E-02	5.4E-03	1.8E-02	4.0E-02	
Nb-94	6.3E-03 +/- 7.4E-03	3.7E-03	1.2E-02		
Nb-95	-1.3E-01 +/- 2.6E-02	1.4E-02	4.7E-02		
Ru-103	-4E-03 +/- 1.3E-02	6.3E-03	2.1E-02		
Ru-106	3.3E-02 +/- 6.3E-02	3.2E-02	1.1E-01		
Sb-124	-8E-03 +/- 1.8E-02	9.0E-03	3.2E-02		
Sb-125	6E-03 +/- 1.9E-02	9.7E-03	3.2E-02		
Se-75	-5E-03 +/- 1.0E-02	5.1E-03	1.7E-02		
Zn-65	-9E-03 +/- 4.3E-02	2.1E-02	7.2E-02		
Zr-95	4E-02 +/- 1.1E-01	5.5E-02	1.8E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/15/07
Receipt Date 06/21/07

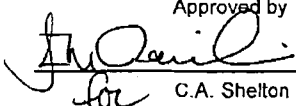
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-06 Client ID A4024 101C1 SH1S1-6 Product GAMMA SPECTROMETRY
Reference Date 05/18/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.248E+00 +/- 4.4E-02	6.6E-02	7.0E-02		bc
Ag-108m	3.5E-03 +/- 8.5E-03	4.2E-03	1.4E-02		
Ag-110m	9E-03 +/- 1.6E-02	8.0E-03	2.7E-02		
Ba-140	-3E-01 +/- 8.2E-01	4.1E-01	1.5E+00		
Be-7	-9E-02 +/- 2.1E-01	1.0E-01	3.5E-01		
Ce-141	9.2E-02 +/- 8.7E-02	4.4E-02	1.4E-01		
Ce-144	-4.5E-02 +/- 8.4E-02	4.2E-02	1.4E-01		
Co-57	7E-03 +/- 8.6E-02	4.3E-02	1.4E-01		
Co-58	-3.8E-02 +/- 2.1E-02	1.1E-02	3.8E-02		
Co-60	7.1E-03 +/- 8.6E-03	4.3E-03	1.8E-02	2.0E-02	
Cr-51	-4E-02 +/- 5.7E-01	2.9E-01	9.7E-01		
Cs-134	-4.3E-02 +/- 4.0E-02	2.0E-02	6.6E-02	8.0E-02	
Cs-137	-5E-03 +/- 1.0E-02	5.1E-03	1.8E-02	3.0E-02	
Eu-152	-2E-03 +/- 2.8E-02	1.4E-02	4.8E-02	1.0E-01	
Eu-154	-2.4E-02 +/- 3.2E-02	1.6E-02	5.6E-02	1.0E-01	
Fe-59	-7.1E-02 +/- 7.3E-02	3.7E-02	1.3E-01		
K-40	2.244E+01 +/- 4.9E-01	1.1E+00	1.6E-01	3.0E-01	bc
La-140	-3.4E-01 +/- 9.4E-01	4.7E-01	1.7E+00		
Mn-54	2.5E-02 +/- 2.4E-02	1.2E-02	4.0E-02	1.0E-01	
Na-22	-8E-03 +/- 1.2E-02	5.9E-03	2.1E-02	4.0E-02	
Nb-94	8E-03 +/- 9.0E-03	4.5E-03	1.5E-02		
Nb-95	-8E-03 +/- 6.6E-02	3.3E-02	1.1E-01		
Ru-103	2.2E-02 +/- 3.8E-02	1.9E-02	6.3E-02		
Ru-106	7E-02 +/- 1.0E-01	5.0E-02	1.7E-01		
Sb-124	3E-03 +/- 3.0E-02	1.5E-02	5.3E-02		
Sb-125	-4E-03 +/- 2.7E-02	1.4E-02	4.6E-02		
Se-75	-6E-03 +/- 2.1E-02	1.0E-02	3.5E-02		
Zn-65	4.4E-02 +/- 6.3E-02	3.2E-02	1.0E-01		
Zr-95	-4E-02 +/- 2.0E-01	1.0E-01	3.4E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by
 8/15/07
C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

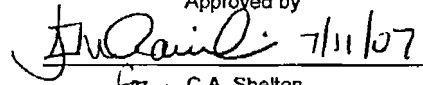
Lab. Sample No. L12562-07 Client ID A4024 101C1 SH1S1-7
Reference Date 05/18/07 Analysis Date 06/28/07

Product GAMMA SPECTROMETRY
Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.163E+00 +/- 3.4E-02	6.1E-02	5.5E-02		bc
Ag-108m	-4.7E-03 +/- 6.3E-03	3.2E-03	1.1E-02		
Ag-110m	-2E-03 +/- 1.1E-02	5.4E-03	1.8E-02		
Ba-140	1.8E-01 +/- 1.2E-01	6.2E-02	2.0E-01		
Be-7	1E-01 +/- 1.2E-01	5.8E-02	1.9E-01		c
Ce-141	7E-03 +/- 5.8E-02	2.9E-02	9.7E-02		
Ce-144	3.2E-02 +/- 5.9E-02	3.0E-02	9.8E-02		
Co-57	-6E-03 +/- 6.0E-02	3.0E-02	1.0E-01		
Co-58	-7E-03 +/- 1.1E-02	5.5E-03	1.9E-02		
Co-60	-4.2E-03 +/- 6.4E-03	3.2E-03	1.4E-02	2.0E-02	
Cr-51	-4E-02 +/- 1.7E-01	8.3E-02	2.8E-01		
Cs-134	6.5E-03 +/- 7.0E-03	3.5E-03	1.1E-02	8.0E-02	
Cs-137	9E-03 +/- 1.4E-02	6.8E-03	2.2E-02	3.0E-02	
Eu-152	2E-03 +/- 2.2E-02	1.1E-02	3.7E-02	1.0E-01	
Eu-154	-3E-03 +/- 2.6E-02	1.3E-02	4.4E-02	1.0E-01	
Fe-59	-7E-03 +/- 3.1E-02	1.5E-02	5.2E-02		
K-40	2.131E+01 +/- 3.8E-01	1.1E+00	1.1E-01	3.0E-01	bc
La-140	2E-01 +/- 1.4E-01	7.1E-02	2.3E-01		
Mn-54	0E+00 +/- 2.3E-02	1.1E-02	3.8E-02	1.0E-01	
Na-22	-7E-04 +/- 9.3E-03	4.6E-03	1.6E-02	4.0E-02	
Nb-94	5.8E-03 +/- 6.9E-03	3.4E-03	1.1E-02		
Nb-95	7E-03 +/- 2.3E-02	1.2E-02	3.9E-02		
Ru-103	2E-03 +/- 1.4E-02	7.2E-03	2.4E-02		
Ru-106	-2.6E-02 +/- 7.4E-02	3.7E-02	1.3E-01		
Sb-124	-4E-03 +/- 1.5E-02	7.5E-03	2.7E-02		
Sb-125	-6E-03 +/- 2.0E-02	1.0E-02	3.4E-02		
Se-75	-7E-03 +/- 1.3E-02	6.4E-03	2.1E-02		
Zn-65	-1.9E-02 +/- 4.2E-02	2.1E-02	7.0E-02		
Zr-95	-4.7E-02 +/- 9.6E-02	4.8E-02	1.6E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/06/07
Receipt Date 06/21/07

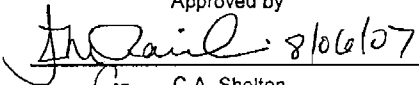
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-08 Client ID A4024 101C1 SH1S1-8 Product GAMMA SPECTROMETRY
Reference Date 05/22/07 Analysis Date 08/06/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.081E+00 +/- 4.4E-02	5.8E-02	7.5E-02		bc
Ag-108m	1.4E-03 +/- 8.2E-03	4.1E-03	1.4E-02		
Ag-110m	-9E-03 +/- 1.5E-02	7.7E-03	2.7E-02		
Ba-140	-7.7E-01 +/- 6.2E-01	3.1E-01	1.2E+00		
Be-7	6E-02 +/- 1.9E-01	9.5E-02	3.2E-01		
Ce-141	-1.5E-02 +/- 7.9E-02	4.0E-02	1.3E-01		
Ce-144	2E-03 +/- 8.4E-02	4.2E-02	1.4E-01		
Co-57	7.6E-02 +/- 8.6E-02	4.3E-02	1.4E-01		
Co-58	-3.7E-02 +/- 2.0E-02	1.0E-02	3.7E-02		
Co-60	-2.3E-03 +/- 8.3E-03	4.2E-03	1.8E-02	2.0E-02	
Cr-51	-4.1E-01 +/- 5.3E-01	2.6E-01	9.0E-01		
Cs-134	-3.5E-02 +/- 4.1E-02	2.0E-02	6.8E-02	8.0E-02	
Cs-137	-8.5E-03 +/- 9.7E-03	4.9E-03	1.7E-02	3.0E-02	
Eu-152	-6E-03 +/- 2.9E-02	1.5E-02	5.0E-02	1.0E-01	
Eu-154	-1.2E-02 +/- 3.4E-02	1.7E-02	6.0E-02	1.0E-01	
Fe-59	6E-03 +/- 7.1E-02	3.5E-02	1.2E-01		
K-40	2.115E+01 +/- 5.0E-01	1.1E+00	1.7E-01	3.0E-01	bc
La-140	-8.9E-01 +/- 7.1E-01	3.6E-01	1.4E+00		
Mn-54	3E-03 +/- 2.4E-02	1.2E-02	4.1E-02	1.0E-01	
Na-22	-1E-02 +/- 1.3E-02	6.4E-03	2.2E-02	4.0E-02	
Nb-94	1.5E-03 +/- 8.9E-03	4.4E-03	1.5E-02		
Nb-95	1.1E-02 +/- 6.2E-02	3.1E-02	1.1E-01		
Ru-103	-1.8E-02 +/- 3.6E-02	1.8E-02	6.1E-02		
Ru-106	4.3E-02 +/- 9.9E-02	5.0E-02	1.7E-01		
Sb-124	1.5E-02 +/- 2.9E-02	1.4E-02	4.9E-02		
Sb-125	-5E-03 +/- 2.7E-02	1.3E-02	4.6E-02		
Se-75	-1.2E-02 +/- 2.1E-02	1.0E-02	3.5E-02		
Zn-65	-5.3E-02 +/- 6.2E-02	3.1E-02	1.0E-01		
Zr-95	4.2E-02 +/- 4.0E-02	2.0E-02	6.5E-02		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-09 Client ID A4024 101C1 SH1S1-9 Product GAMMA SPECTROMETRY
Reference Date 05/22/07 Analysis Date 06/28/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.146E+00 +/- 3.3E-02	6.0E-02	5.8E-02		bc
Ag-108m	-2.9E-03 +/- 6.1E-03	3.0E-03	1.0E-02		
Ag-110m	6E-03 +/- 1.0E-02	5.2E-03	1.7E-02		
Ba-140	-4.6E-02 +/- 6.6E-02	3.3E-02	1.2E-01		
Be-7	8E-02 +/- 1.8E-01	8.9E-02	2.9E-01		
Ce-141	1.5E-02 +/- 2.3E-02	1.2E-02	3.8E-02		
Ce-144	1.7E-02 +/- 4.4E-02	2.2E-02	7.2E-02		
Co-57	-3.8E-02 +/- 4.5E-02	2.2E-02	7.5E-02		
Co-58	-1.3E-02 +/- 1.1E-02	5.3E-03	1.8E-02		
Co-60	2.7E-03 +/- 6.9E-03	3.4E-03	1.5E-02	2.0E-02	
Cr-51	-7E-02 +/- 1.2E-01	6.2E-02	2.1E-01		
Cs-134	5.1E-03 +/- 6.5E-03	3.2E-03	1.1E-02	8.0E-02	
Cs-137	9.5E-03 +/- 6.6E-03	3.3E-03	1.1E-02	3.0E-02	c
Eu-152	-2E-02 +/- 1.8E-02	9.0E-03	3.1E-02	1.0E-01	
Eu-154	2E-02 +/- 3.0E-02	1.5E-02	4.9E-02	1.0E-01	
Fe-59	-2.1E-02 +/- 3.0E-02	1.5E-02	5.2E-02		
K-40	2.163E+01 +/- 3.9E-01	1.1E+00	1.2E-01	3.0E-01	bc
La-140	-5.5E-02 +/- 7.6E-02	3.8E-02	1.4E-01		
Mn-54	2E-03 +/- 1.5E-02	7.5E-03	2.5E-02	1.0E-01	
Na-22	1.2E-02 +/- 1.1E-02	5.4E-03	1.8E-02	4.0E-02	
Nb-94	-7E-04 +/- 7.4E-03	3.7E-03	1.3E-02		
Nb-95	0E+00 +/- 2.2E-02	1.1E-02	3.7E-02		
Ru-103	-6E-03 +/- 1.2E-02	5.9E-03	2.0E-02		
Ru-106	2.8E-02 +/- 6.5E-02	3.3E-02	1.1E-01		
Sb-124	-4E-03 +/- 1.8E-02	8.8E-03	3.1E-02		
Sb-125	1.1E-02 +/- 1.9E-02	9.5E-03	3.1E-02		
Se-75	-2.5E-03 +/- 9.9E-03	5.0E-03	1.7E-02		
Zn-65	2.7E-02 +/- 4.3E-02	2.2E-02	7.1E-02		
Zr-95	3E-02 +/- 9.5E-02	4.8E-02	1.6E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

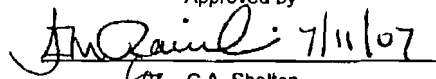
Lab. Sample No. L12562-10 Client ID A4024 101C1 SH1S1-10 Product GAMMA SPECTROMETRY
Reference Date 05/22/07 Analysis Date 06/28/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.192E+00 +/- 3.3E-02	6.2E-02	5.3E-02		bc
Ag-108m	-1.6E-03 +/- 6.1E-03	3.1E-03	1.0E-02		
Ag-110m	-2E-03 +/- 1.1E-02	5.5E-03	1.9E-02		
Ba-140	-6E-02 +/- 6.3E-02	3.2E-02	1.1E-01		
Be-7	-7.2E-02 +/- 8.7E-02	4.3E-02	1.5E-01		
Ce-141	2.5E-02 +/- 2.3E-02	1.2E-02	3.8E-02		
Ce-144	2.4E-02 +/- 5.2E-02	2.6E-02	8.5E-02		
Co-57	2.1E-02 +/- 5.3E-02	2.6E-02	8.7E-02		
Co-58	3E-03 +/- 1.8E-02	8.8E-03	2.9E-02		
Co-60	-4E-04 +/- 6.7E-03	3.4E-03	1.5E-02	2.0E-02	
Cr-51	-5E-02 +/- 1.4E-01	7.0E-02	2.4E-01		
Cs-134	-5.8E-02 +/- 3.0E-02	1.5E-02	5.0E-02	8.0E-02	
Cs-137	8.02E-02 +/- 9.6E-03	6.3E-03	1.3E-02	3.0E-02	bc
Eu-152	-2.6E-02 +/- 2.0E-02	1.0E-02	3.5E-02	1.0E-01	
Eu-154	1.5E-02 +/- 2.8E-02	1.4E-02	4.6E-02	1.0E-01	
Fe-59	-1.9E-02 +/- 2.8E-02	1.4E-02	4.9E-02		
K-40	2.036E+01 +/- 3.7E-01	1.0E+00	1.3E-01	3.0E-01	bc
La-140	-6.9E-02 +/- 7.2E-02	3.6E-02	1.3E-01		
Mn-54	5E-03 +/- 2.4E-02	1.2E-02	4.0E-02	1.0E-01	
Na-22	8E-03 +/- 1.0E-02	5.1E-03	1.7E-02	4.0E-02	
Nb-94	4.5E-03 +/- 7.3E-03	3.7E-03	1.2E-02		
Nb-95	-1.2E-02 +/- 2.0E-02	1.0E-02	3.5E-02		
Ru-103	-2E-03 +/- 1.2E-02	5.8E-03	2.0E-02		
Ru-106	-6.4E-02 +/- 7.0E-02	3.5E-02	1.2E-01		
Sb-124	4E-03 +/- 1.7E-02	8.7E-03	3.0E-02		
Sb-125	-4E-03 +/- 2.0E-02	9.8E-03	3.3E-02		
Se-75	-9.6E-03 +/- 9.7E-03	4.9E-03	1.7E-02		
Zn-65	1.7E-02 +/- 4.1E-02	2.1E-02	6.9E-02		
Zr-95	2.1E-02 +/- 9.4E-02	4.7E-02	1.6E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by


C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

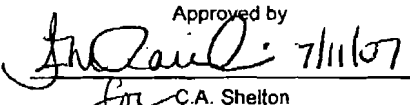
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-11 Client ID A4024 101C1 SH1S1-12 Product GAMMA SPECTROMETRY
Reference Date 05/22/07 Analysis Date 06/28/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.17E+00 +/- 3.4E-02	6.1E-02	5.6E-02		bc
Ag-108m	-2.9E-03 +/- 8.6E-03	4.3E-03	1.5E-02		
Ag-110m	5E-03 +/- 1.1E-02	5.5E-03	1.8E-02		
Ba-140	-4E-02 +/- 5.5E-02	2.8E-02	1.0E-01		
Be-7	-5.7E-02 +/- 8.8E-02	4.4E-02	1.5E-01		
Ce-141	6E-03 +/- 2.6E-02	1.3E-02	4.4E-02		
Ce-144	3E-03 +/- 5.8E-02	2.9E-02	9.6E-02		
Co-57	1.3E-02 +/- 5.9E-02	3.0E-02	9.9E-02		
Co-58	-5.3E-03 +/- 9.8E-03	4.9E-03	1.7E-02		
Co-60	4.8E-03 +/- 6.3E-03	3.2E-03	1.3E-02	2.0E-02	
Cr-51	-2E-02 +/- 1.5E-01	7.4E-02	2.5E-01		
Cs-134	-4.2E-02 +/- 2.9E-02	1.5E-02	4.9E-02	8.0E-02	
Cs-137	-5.8E-03 +/- 7.6E-03	3.8E-03	1.3E-02	3.0E-02	
Eu-152	-7E-03 +/- 2.2E-02	1.1E-02	3.6E-02	1.0E-01	
Eu-154	-1.3E-02 +/- 2.4E-02	1.2E-02	4.2E-02	1.0E-01	
Fe-59	-3.2E-02 +/- 2.9E-02	1.4E-02	5.0E-02		
K-40	2.128E+01 +/- 3.8E-01	1.1E+00	1.2E-01	3.0E-01	bc
La-140	-4.6E-02 +/- 6.3E-02	3.2E-02	1.1E-01		
Mn-54	0E+00 +/- 4.0E-02	2.0E-02	6.6E-02	1.0E-01	
Na-22	-3.6E-03 +/- 8.8E-03	4.4E-03	1.5E-02	4.0E-02	
Nb-94	3.1E-03 +/- 6.8E-03	3.4E-03	1.1E-02		
Nb-95	2.4E-02 +/- 2.7E-02	1.4E-02	4.5E-02		
Ru-103	1E-02 +/- 1.3E-02	6.7E-03	2.2E-02		
Ru-106	-5E-03 +/- 7.1E-02	3.6E-02	1.2E-01		
Sb-124	1E-02 +/- 1.5E-02	7.6E-03	2.5E-02		
Sb-125	-3E-03 +/- 2.0E-02	1.0E-02	3.4E-02		
Se-75	-9E-03 +/- 1.2E-02	6.3E-03	2.1E-02		
Zn-65	2E-03 +/- 4.1E-02	2.1E-02	6.9E-02		
Zr-95	7E-03 +/- 9.0E-02	4.5E-02	1.5E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/15/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

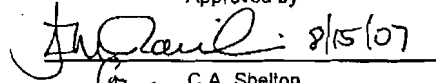
Lab. Sample No. L12562-12 Client ID A4024 101C1 SH1S1-14 Product GAMMA SPECTROMETRY
Reference Date 05/23/07 Analysis Date 08/13/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.195E+00 +/- 5.3E-02	6.5E-02	9.3E-02		bc
Ag-108m	-6E-03 +/- 9.8E-03	4.9E-03	1.7E-02		
Ag-110m	1.4E-02 +/- 2.1E-02	1.1E-02	3.5E-02		
Ba-140	-4E-01 +/- 1.2E+00	5.8E-01	2.1E+00		
Be-7	-6E-02 +/- 2.5E-01	1.2E-01	4.2E-01		
Ce-141	5E-02 +/- 1.0E-01	5.1E-02	1.7E-01		
Ce-144	6E-03 +/- 9.5E-02	4.8E-02	1.6E-01		
Co-57	-1.9E-02 +/- 9.9E-02	4.9E-02	1.6E-01		
Co-58	5E-03 +/- 4.2E-02	2.1E-02	7.0E-02		
Co-60	-8E-03 +/- 1.1E-02	5.6E-03	2.5E-02	2.0E-02	a
Cr-51	1.5E-01 +/- 7.2E-01	3.6E-01	1.2E+00		
Cs-134	-3E-03 +/- 1.2E-02	6.2E-03	2.1E-02	8.0E-02	
Cs-137	-1.6E-02 +/- 1.5E-02	7.4E-03	2.6E-02	3.0E-02	
Eu-152	-4E-03 +/- 3.4E-02	1.7E-02	5.7E-02	1.0E-01	
Eu-154	-1.2E-02 +/- 4.7E-02	2.4E-02	8.2E-02	1.0E-01	
Fe-59	0E+00 +/- 9.5E-02	4.8E-02	1.6E-01		
K-40	2.099E+01 +/- 6.0E-01	1.1E+00	1.8E-01	3.0E-01	bc
La-140	-4E-01 +/- 1.3E+00	6.6E-01	2.4E+00		
Mn-54	-2E-03 +/- 1.4E-02	6.9E-03	2.4E-02	1.0E-01	
Na-22	-3E-03 +/- 1.7E-02	8.7E-03	3.0E-02	4.0E-02	
Nb-94	8E-03 +/- 2.2E-02	1.1E-02	3.6E-02		
Nb-95	-9.2E-02 +/- 9.2E-02	4.6E-02	1.6E-01		
Ru-103	3.1E-02 +/- 4.2E-02	2.1E-02	7.0E-02		
Ru-106	-4E-02 +/- 1.2E-01	6.3E-02	2.2E-01		
Sb-124	3E-03 +/- 4.7E-02	2.3E-02	8.3E-02		
Sb-125	1.3E-02 +/- 3.3E-02	1.7E-02	5.6E-02		
Se-75	-1E-02 +/- 2.1E-02	1.0E-02	3.6E-02		
Zn-65	1E-03 +/- 8.4E-02	4.2E-02	1.4E-01		
Zr-95	-1.1E-02 +/- 7.7E-02	3.8E-02	1.3E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by


C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

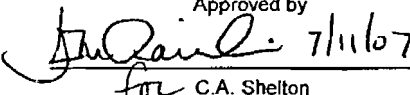
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-14 Client ID A4024 101C1 QA15 Product GAMMA SPECTROMETRY
Reference Date 05/23/07 Analysis Date 06/29/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.143E+00 +/- 3.4E-02	6.0E-02	6.3E-02		bc
Ag-108m	2.1E-03 +/- 9.1E-03	4.5E-03	1.5E-02		
Ag-110m	-8E-03 +/- 1.2E-02	6.0E-03	2.1E-02		
Ba-140	-5.6E-02 +/- 6.6E-02	3.3E-02	1.2E-01		
Be-7	2.7E-02 +/- 9.1E-02	4.6E-02	1.5E-01		
Ce-141	1.6E-02 +/- 2.5E-02	1.2E-02	4.1E-02		
Ce-144	1.5E-02 +/- 5.5E-02	2.7E-02	9.0E-02		
Co-57	2.9E-02 +/- 5.6E-02	2.8E-02	9.2E-02		
Co-58	-8E-03 +/- 1.8E-02	9.2E-03	3.1E-02		
Co-60	-2.5E-03 +/- 7.1E-03	3.5E-03	1.5E-02	2.0E-02	
Cr-51	-5E-02 +/- 1.5E-01	7.4E-02	2.5E-01		
Cs-134	-2.3E-02 +/- 3.1E-02	1.5E-02	5.1E-02	8.0E-02	
Cs-137	3E-03 +/- 1.6E-02	7.8E-03	2.6E-02	3.0E-02	
Eu-152	-2E-02 +/- 2.2E-02	1.1E-02	3.7E-02	1.0E-01	
Eu-154	-2.1E-02 +/- 2.9E-02	1.5E-02	5.0E-02	1.0E-01	
Fe-59	-5E-03 +/- 3.1E-02	1.5E-02	5.2E-02		
K-40	1.824E+01 +/- 3.9E-01	9.3E-01	1.4E-01	3.0E-01	bc
La-140	-6.4E-02 +/- 7.6E-02	3.8E-02	1.4E-01		
Mn-54	1E-03 +/- 2.0E-02	1.0E-02	3.3E-02	1.0E-01	
Na-22	-6E-03 +/- 1.0E-02	5.2E-03	1.8E-02	4.0E-02	
Nb-94	3.6E-03 +/- 7.9E-03	4.0E-03	1.3E-02		
Nb-95	-5E-03 +/- 2.2E-02	1.1E-02	3.7E-02		
Ru-103	1E-03 +/- 1.2E-02	6.1E-03	2.1E-02		
Ru-106	2E-03 +/- 7.7E-02	3.9E-02	1.3E-01		
Sb-124	-4E-03 +/- 1.8E-02	9.2E-03	3.3E-02		
Sb-125	6E-03 +/- 2.0E-02	9.8E-03	3.3E-02		
Se-75	2E-03 +/- 1.0E-02	5.1E-03	1.7E-02		
Zn-65	-2.6E-02 +/- 4.5E-02	2.3E-02	7.6E-02		
Zr-95	7E-02 +/- 1.0E-01	5.0E-02	1.7E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGehee



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Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRP Report Date 08/08/07
Receipt Date 06/21/07

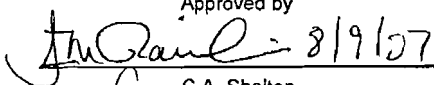
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-13 Client ID A4024 101C1 SH1S1-15 Product GAMMA SPECTROMETRY
Reference Date 05/23/07 Analysis Date 08/06/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.173E+00 +/- 3.7E-02	6.2E-02	6.1E-02		bc
Ag-108m	8E-04 +/- 7.4E-03	3.7E-03	1.2E-02		
Ag-110m	-1E-03 +/- 1.3E-02	6.5E-03	2.2E-02		
Ba-140	-8E-01 +/- 5.6E-01	2.8E-01	1.1E+00		
Be-7	-2E-01 +/- 1.8E-01	8.9E-02	3.0E-01		
Ce-141	9.8E-02 +/- 7.2E-02	3.6E-02	1.2E-01		
Ce-144	1.1E-02 +/- 7.7E-02	3.9E-02	1.3E-01		
Co-57	-1.2E-02 +/- 7.9E-02	4.0E-02	1.3E-01		
Co-58	-2.2E-02 +/- 1.6E-02	7.9E-03	2.8E-02		
Co-60	6.4E-03 +/- 6.9E-03	3.4E-03	1.4E-02	2.0E-02	
Cr-51	4E-01 +/- 4.6E-01	2.3E-01	7.5E-01		
Cs-134	-2.9E-02 +/- 3.9E-02	2.0E-02	6.5E-02	8.0E-02	
Cs-137	-1E-03 +/- 1.5E-02	7.4E-03	2.5E-02	3.0E-02	
Eu-152	1.8E-02 +/- 2.6E-02	1.3E-02	4.3E-02	1.0E-01	
Eu-154	-1.7E-02 +/- 2.9E-02	1.5E-02	5.0E-02	1.0E-01	
Fe-59	-2E-02 +/- 5.8E-02	2.9E-02	9.9E-02		
K-40	2.198E+01 +/- 4.1E-01	1.1E+00	1.2E-01	3.0E-01	bc
La-140	-9.2E-01 +/- 6.4E-01	3.2E-01	1.2E+00		
Mn-54	0E+00 +/- 2.4E-02	1.2E-02	4.0E-02	1.0E-01	
Na-22	-7E-03 +/- 1.1E-02	5.4E-03	1.9E-02	4.0E-02	
Nb-94	1.02E-02 +/- 8.1E-03	4.1E-03	1.3E-02		
Nb-95	2.5E-02 +/- 4.9E-02	2.4E-02	8.1E-02		
Ru-103	5E-03 +/- 2.7E-02	1.3E-02	4.5E-02		
Ru-106	3.6E-02 +/- 8.4E-02	4.2E-02	1.4E-01		
Sb-124	2.3E-02 +/- 2.7E-02	1.3E-02	4.4E-02		
Sb-125	4E-03 +/- 2.5E-02	1.2E-02	4.1E-02		
Se-75	-1.9E-02 +/- 1.6E-02	8.1E-03	2.8E-02		
Zn-65	-2.7E-02 +/- 5.1E-02	2.6E-02	8.6E-02		
Zr-95	2.1E-01 +/- 1.8E-01	9.2E-02	3.0E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

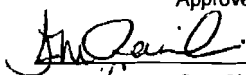
Lab. Sample No. L12562-15 Client ID A4024 101C1 SH1S1-16 Product GAMMA SPECTROMETRY
Reference Date 05/15/07 Analysis Date 06/29/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.208E+00 +/- 4.0E-02	6.4E-02	6.5E-02		bc
Ag-108m	-3E-03 +/- 7.4E-03	3.7E-03	1.3E-02		
Ag-110m	8E-03 +/- 1.3E-02	6.5E-03	2.1E-02		
Ba-140	7.6E-02 +/- 7.1E-02	3.6E-02	1.1E-01		
Be-7	0E+00 +/- 1.1E-01	5.6E-02	1.9E-01		
Ce-141	-2E-03 +/- 7.4E-02	3.7E-02	1.2E-01		
Ce-144	-1.9E-02 +/- 6.9E-02	3.5E-02	1.2E-01		
Co-57	2.1E-02 +/- 7.1E-02	3.6E-02	1.2E-01		
Co-58	3E-03 +/- 2.2E-02	1.1E-02	3.7E-02		
Co-60	-3E-03 +/- 7.4E-03	3.7E-03	1.7E-02	2.0E-02	
Cr-51	5E-02 +/- 2.1E-01	1.1E-01	3.5E-01		
Cs-134	-3.9E-02 +/- 3.4E-02	1.7E-02	5.7E-02	8.0E-02	
Cs-137	-3E-03 +/- 1.5E-02	7.5E-03	2.5E-02	3.0E-02	
Eu-152	2.4E-02 +/- 2.5E-02	1.3E-02	4.2E-02	1.0E-01	
Eu-154	1.8E-02 +/- 2.9E-02	1.5E-02	4.9E-02	1.0E-01	
Fe-59	7E-03 +/- 3.9E-02	1.9E-02	3.9E-01		
K-40	2.197E+01 +/- 4.4E-01	1.1E+00	1.4E-01	3.0E-01	bc
La-140	8.8E-02 +/- 8.1E-02	4.1E-02	1.3E-01		
Mn-54	3E-03 +/- 3.9E-02	1.9E-02	6.4E-02	1.0E-01	
Na-22	3E-03 +/- 1.1E-02	5.3E-03	1.8E-02	4.0E-02	
Nb-94	-3.9E-03 +/- 7.8E-03	3.9E-03	1.3E-02		
Nb-95	3.6E-02 +/- 2.9E-02	1.4E-02	4.7E-02		
Ru-103	-2E-03 +/- 1.8E-02	9.1E-03	3.1E-02		
Ru-106	-3.9E-02 +/- 8.6E-02	4.3E-02	1.5E-01		
Sb-124	-3E-03 +/- 1.9E-02	9.3E-03	3.4E-02		
Sb-125	-5E-03 +/- 2.4E-02	1.2E-02	4.0E-02		
Se-75	-7E-03 +/- 1.5E-02	7.5E-03	2.5E-02		
Zn-65	-2.5E-02 +/- 5.1E-02	2.5E-02	8.5E-02		
Zr-95	-6E-02 +/- 1.1E-01	5.5E-02	1.8E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

 7/11/07
for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

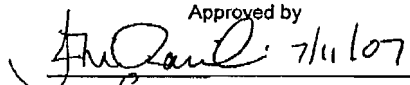
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-16 Client ID A4024 101C1 SH1S1-17 Product GAMMA SPECTROMETRY
Reference Date 05/16/07 Analysis Date 06/29/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.219E+00 +/- 3.5E-02	6.3E-02	5.7E-02		bc
Ag-108m	1.2E-03 +/- 7.1E-03	3.5E-03	1.2E-02		
Ag-110m	9E-03 +/- 1.1E-02	5.5E-03	1.8E-02		
Ba-140	2.2E-01 +/- 1.5E-01	7.7E-02	2.5E-01		
Be-7	4E-02 +/- 1.1E-01	5.4E-02	1.8E-01		
Ce-141	4E-02 +/- 5.0E-02	2.5E-02	8.2E-02		
Ce-144	2.4E-01 +/- 1.3E-01	6.6E-02	2.2E-01		
Co-57	4.9E-02 +/- 6.9E-02	3.4E-02	1.1E-01		
Co-58	8E-03 +/- 1.8E-02	9.3E-03	3.1E-02		
Co-60	1.2E-03 +/- 6.3E-03	3.2E-03	1.4E-02	2.0E-02	
Cr-51	2E-02 +/- 2.0E-01	9.9E-02	3.3E-01		
Cs-134	3.9E-02 +/- 3.0E-02	1.5E-02	5.0E-02	8.0E-02	
Cs-137	0E+00 +/- 1.3E-02	6.4E-03	2.1E-02	3.0E-02	
Eu-152	4E-03 +/- 2.4E-02	1.2E-02	4.1E-02	1.0E-01	
Eu-154	4E-03 +/- 2.8E-02	1.4E-02	4.7E-02	1.0E-01	
Fe-59	7E-03 +/- 3.3E-02	1.7E-02	1.9E-01		
K-40	2.218E+01 +/- 3.8E-01	1.1E+00	1.2E-01	3.0E-01	bc
La-140	2.5E-01 +/- 1.8E-01	8.8E-02	2.8E-01		
Mn-54	1E-02 +/- 2.7E-02	1.4E-02	4.5E-02	1.0E-01	
Na-22	0E+00 +/- 1.0E-02	5.0E-03	1.7E-02	4.0E-02	
Nb-94	3.9E-03 +/- 7.5E-03	3.7E-03	1.2E-02		
Nb-95	8E-03 +/- 2.4E-02	1.2E-02	4.1E-02		
Ru-103	7E-03 +/- 1.4E-02	7.2E-03	2.4E-02		
Ru-106	3.5E-02 +/- 7.4E-02	3.7E-02	1.3E-01		
Sb-124	1.8E-02 +/- 1.8E-02	9.0E-03	3.3E-02		
Sb-125	1.2E-02 +/- 2.3E-02	1.1E-02	3.7E-02		
Se-75	3E-03 +/- 1.2E-02	6.2E-03	2.1E-02		
Zn-65	2E-02 +/- 4.3E-02	2.2E-02	7.2E-02		
Zr-95	3E-02 +/- 1.1E-01	5.7E-02	1.9E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by

for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

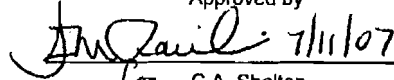
Lab. Sample No. L12562-17 Client ID A4024 101C1 SH1S1-18 Product GAMMA SPECTROMETRY
Reference Date 05/16/07 Analysis Date 06/29/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.188E+00 +/- 3.6E-02	6.2E-02	6.1E-02		bc
Ag-108m	2.2E-03 +/- 6.5E-03	3.3E-03	1.1E-02		
Ag-110m	-2E-03 +/- 1.2E-02	5.9E-03	2.0E-02		
Ba-140	-5E-02 +/- 8.3E-02	4.2E-02	1.5E-01		
Be-7	5E-02 +/- 1.0E-01	5.1E-02	1.7E-01		
Ce-141	1E-03 +/- 6.6E-02	3.3E-02	1.1E-01		
Ce-144	-2.7E-02 +/- 6.2E-02	3.1E-02	1.0E-01		
Co-57	4.2E-02 +/- 6.4E-02	3.2E-02	1.1E-01		
Co-58	-3E-03 +/- 2.1E-02	1.1E-02	3.6E-02		
Co-60	-1E-03 +/- 6.8E-03	3.4E-03	1.5E-02	2.0E-02	
Cr-51	0E+00 +/- 1.8E-01	9.2E-02	3.1E-01		
Cs-134	-2.9E-02 +/- 3.1E-02	1.5E-02	5.1E-02	8.0E-02	
Cs-137	-4E-03 +/- 1.4E-02	7.2E-03	2.4E-02	3.0E-02	
Eu-152	4E-03 +/- 2.3E-02	1.1E-02	3.8E-02	1.0E-01	
Eu-154	-2E-03 +/- 2.7E-02	1.3E-02	4.5E-02	1.0E-01	
Fe-59	-2.2E-02 +/- 3.4E-02	1.7E-02	5.9E-02		
K-40	2.238E+01 +/- 4.0E-01	1.1E+00	1.3E-01	3.0E-01	bc
La-140	-5.9E-02 +/- 9.6E-02	4.8E-02	1.7E-01		
Mn-54	9E-03 +/- 2.7E-02	1.3E-02	4.4E-02	1.0E-01	
Na-22	-5E-03 +/- 9.7E-03	4.9E-03	1.7E-02	4.0E-02	
Nb-94	-3.3E-03 +/- 7.2E-03	3.6E-03	1.2E-02		
Nb-95	-4E-03 +/- 2.6E-02	1.3E-02	4.3E-02		
Ru-103	0E+00 +/- 1.6E-02	8.2E-03	2.7E-02		
Ru-106	2.8E-02 +/- 7.9E-02	3.9E-02	1.3E-01		
Sb-124	-1E-03 +/- 1.7E-02	8.7E-03	3.1E-02		
Sb-125	1.1E-02 +/- 2.1E-02	1.0E-02	3.4E-02		
Se-75	-4E-03 +/- 1.4E-02	6.8E-03	2.3E-02		
Zn-65	-1E-02 +/- 4.5E-02	2.3E-02	7.6E-02		
Zr-95	3E-02 +/- 1.3E-01	6.5E-02	2.2E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/08/07
Receipt Date 06/21/07

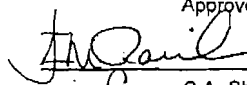
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-18 Client ID A4024 101C1 SH1S1-19 Product GAMMA SPECTROMETRY
Reference Date 05/16/07 Analysis Date 08/07/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.213E+00 +/- 4.8E-02	6.5E-02	7.4E-02		bc
Ag-108m	-6.8E-03 +/- 9.1E-03	4.6E-03	1.6E-02		
Ag-110m	0E+00 +/- 1.7E-02	8.4E-03	2.9E-02		
Ba-140	9.9E-01 +/- 7.2E-01	3.6E-01	1.1E+00		
Be-7	0E+00 +/- 2.4E-01	1.2E-01	4.1E-01		
Ce-141	7E-02 +/- 1.1E-01	5.4E-02	1.8E-01		
Ce-144	-1.6E-01 +/- 1.8E-01	8.9E-02	3.0E-01		
Co-57	-2E-02 +/- 1.0E-01	5.2E-02	1.7E-01		
Co-58	-1.3E-02 +/- 2.2E-02	1.1E-02	3.9E-02		
Co-60	6E-04 +/- 8.7E-03	4.4E-03	2.0E-02	2.0E-02	
Cr-51	-9E-02 +/- 7.0E-01	3.5E-01	1.2E+00		
Cs-134	-1.6E-03 +/- 9.3E-03	4.7E-03	1.6E-02	8.0E-02	
Cs-137	7E-03 +/- 1.7E-02	8.6E-03	2.9E-02	3.0E-02	
Eu-152	-1E-03 +/- 3.2E-02	1.6E-02	5.4E-02	1.0E-01	
Eu-154	-4.9E-02 +/- 3.7E-02	1.8E-02	6.6E-02	1.0E-01	
Fe-59	-4.5E-02 +/- 8.3E-02	4.1E-02	1.4E-01		
K-40	2.199E+01 +/- 5.2E-01	1.1E+00	1.7E-01	3.0E-01	bc
La-140	1.14E+00 +/- 8.2E-01	4.2E-01	1.3E+00		
Mn-54	3E-03 +/- 3.0E-02	1.5E-02	5.0E-02	1.0E-01	
Na-22	-1.7E-02 +/- 1.4E-02	6.9E-03	2.4E-02	4.0E-02	
Nb-94	5.4E-03 +/- 9.8E-03	4.9E-03	1.6E-02		
Nb-95	-1.89E-01 +/- 7.8E-02	4.0E-02	1.4E-01		
Ru-103	-2E-03 +/- 3.8E-02	1.9E-02	6.5E-02		
Ru-106	-1E-02 +/- 1.1E-01	5.3E-02	1.8E-01		
Sb-124	-1.3E-02 +/- 3.9E-02	1.9E-02	7.1E-02		
Sb-125	3.6E-02 +/- 3.0E-02	1.5E-02	4.9E-02		
Se-75	-3.2E-02 +/- 2.2E-02	1.1E-02	3.8E-02		
Zn-65	-1.6E-02 +/- 6.8E-02	3.4E-02	1.1E-01		
Zr-95	2E-02 +/- 2.1E-01	1.0E-01	3.4E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by
 8/9/07
for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 08/15/07
Receipt Date 06/21/07

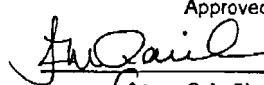
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-19 Client ID A4024 101C1 SH1S1-20 Product GAMMA SPECTROMETRY
Reference Date 05/16/07 Analysis Date 08/13/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.204E+00 +/- 4.7E-02	6.5E-02	7.2E-02		bc
Ag-108m	1E-04 +/- 9.8E-03	4.9E-03	1.6E-02		
Ag-110m	7E-03 +/- 1.7E-02	8.5E-03	2.9E-02		
Ba-140	-1.3E+00 +/- 1.2E+00	6.2E-01	2.4E+00		
Be-7	-2.3E-01 +/- 2.9E-01	1.4E-01	4.9E-01		
Ce-141	1.2E-01 +/- 1.3E-01	6.5E-02	2.1E-01		
Ce-144	-3E-02 +/- 1.1E-01	5.3E-02	1.8E-01		
Co-57	-3E-02 +/- 1.1E-01	5.5E-02	1.8E-01		
Co-58	2.1E-02 +/- 3.8E-02	1.9E-02	6.3E-02		
Co-60	5.4E-03 +/- 8.6E-03	4.3E-03	1.8E-02	2.0E-02	
Cr-51	-1.9E-01 +/- 7.6E-01	3.8E-01	1.3E+00		
Cs-134	-3.7E-02 +/- 4.3E-02	2.1E-02	7.1E-02	8.0E-02	
Cs-137	-8E-03 +/- 1.1E-02	5.3E-03	1.9E-02	3.0E-02	
Eu-152	2.3E-02 +/- 3.1E-02	1.5E-02	5.1E-02	1.0E-01	
Eu-154	2E-03 +/- 3.7E-02	1.9E-02	6.3E-02	1.0E-01	
Fe-59	-3.7E-02 +/- 9.0E-02	4.5E-02	1.6E-01		
K-40	2.217E+01 +/- 5.2E-01	1.1E+00	1.7E-01	3.0E-01	bc
La-140	-1.4E+00 +/- 1.4E+00	7.2E-01	2.7E+00		
Mn-54	-4E-03 +/- 1.6E-02	8.2E-03	2.8E-02	1.0E-01	
Na-22	4E-03 +/- 1.4E-02	6.9E-03	2.3E-02	4.0E-02	
Nb-94	-2.3E-03 +/- 9.7E-03	4.8E-03	1.7E-02		
Nb-95	5.8E-02 +/- 8.8E-02	4.4E-02	1.5E-01		
Ru-103	-4E-03 +/- 4.8E-02	2.4E-02	8.1E-02		
Ru-106	0E+00 +/- 1.1E-01	5.4E-02	1.8E-01		
Sb-124	4.8E-02 +/- 3.9E-02	2.0E-02	6.1E-02		
Sb-125	-7E-03 +/- 2.9E-02	1.5E-02	5.0E-02		
Se-75	-3.2E-02 +/- 2.3E-02	1.2E-02	4.0E-02		
Zn-65	-1.9E-02 +/- 7.0E-02	3.5E-02	1.2E-01		
Zr-95	6E-02 +/- 7.2E-02	3.6E-02	1.2E-01		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by
 8/15/07
for C.A. Shelton
Sample Control & Measurements Lead

Don McGee



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer AREVA NP Inc
Attention John McGehee

FEDERAL GRF Report Date 07/11/07
Receipt Date 06/21/07

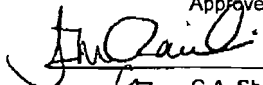
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Lab. Sample No. L12562-20 Client ID A4024 101C1 COMPOSITE SH1S1-21 Product GAMMA SPECTROMETRY
Reference Date 05/16/07 Analysis Date 06/29/07 Matrix Soil

Nuclide	Activity Concentration +/- 2 - Sigma (pCi/g)	TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags
AcTh-228	1.18E+00 +/- 3.6E-02	6.2E-02	5.8E-02		bc
Ag-108m	5.1E-03 +/- 6.2E-03	3.1E-03	1.0E-02		
Ag-110m	-9E-03 +/- 1.1E-02	5.6E-03	1.9E-02		
Ba-140	-1.2E-01 +/- 8.5E-02	4.3E-02	1.6E-01		
Be-7	6.6E-02 +/- 9.9E-02	4.9E-02	1.6E-01		
Ce-141	4.3E-02 +/- 3.2E-02	1.6E-02	5.1E-02		
Ce-144	8E-03 +/- 6.1E-02	3.1E-02	1.0E-01		
Co-57	1E-02 +/- 6.3E-02	3.1E-02	1.0E-01		
Co-58	-1.1E-02 +/- 1.1E-02	5.8E-03	2.0E-02		
Co-60	-4.8E-03 +/- 6.6E-03	3.3E-03	1.5E-02	2.0E-02	
Cr-51	6E-02 +/- 1.8E-01	9.2E-02	3.1E-01		
Cs-134	-3.5E-02 +/- 3.1E-02	1.5E-02	5.1E-02	8.0E-02	
Cs-137	6E-03 +/- 1.4E-02	7.3E-03	2.4E-02	3.0E-02	
Eu-152	-1.6E-02 +/- 2.2E-02	1.1E-02	3.8E-02	1.0E-01	
Eu-154	-3E-03 +/- 5.3E-02	2.6E-02	8.8E-02	1.0E-01	
Fe-59	-2.9E-02 +/- 3.4E-02	1.7E-02	5.9E-02		
K-40	2.199E+01 +/- 3.9E-01	1.1E+00	1.3E-01	3.0E-01	bc
La-140	-1.38E-01 +/- 9.7E-02	4.9E-02	1.9E-01		
Mn-54	4.1E-03 +/- 9.2E-03	4.6E-03	1.5E-02	1.0E-01	
Na-22	1E-03 +/- 1.8E-02	9.2E-03	3.1E-02	4.0E-02	
Nb-94	6.4E-03 +/- 7.0E-03	3.5E-03	1.1E-02		
Nb-95	2.4E-02 +/- 2.7E-02	1.3E-02	4.4E-02		
Ru-103	3E-03 +/- 1.6E-02	7.9E-03	2.7E-02		
Ru-106	1.8E-02 +/- 7.3E-02	3.7E-02	1.2E-01		
Sb-124	-4E-03 +/- 1.6E-02	7.8E-03	2.8E-02		
Sb-125	7E-03 +/- 2.0E-02	9.9E-03	3.3E-02		
Se-75	-2E-02 +/- 1.3E-02	6.7E-03	2.3E-02		
Zn-65	-6E-03 +/- 4.6E-02	2.3E-02	7.7E-02		
Zr-95	2.6E-02 +/- 2.2E-02	1.1E-02	3.6E-02		

Flags: a The measured MDC is greater than the required MDC
b The activity concentration is greater than three times its one sigma counting uncertainty.
c Peak was found

Reporting Level Ratio:

Approved by
 7/11/07
for C.A. Shelton
Sample Control & Measurements Lead

Don McGee

**SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA**

5/24/2007

Page C-8 of 8

Survey Package Appendix C – Survey Results

Survey Package: A4024 101C2 Package: Environ
Survey Area Name: SETF Paved Yard and Adjacent Soil Areas
Survey Unit Name: Buried Waste Tank/Vault Location

**Section 7.0
Sample Analysis Results – Alpha Spectroscopy
15 Pages**

Am-241,

Cm-242, 243/244



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product AM-241 CM242,243,244

Report Date 11/04/07
Receipt Date 06/21/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU	Measured	Required	Reporting
		Date	Date		+/-	2-Sigma	1 Sigma	MDC	MDC	
Soil										
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	08/14/2007	Am-241	3E-03	+/- 3.4E-02	1.7E-02	8.9E-02	1.9E+00
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	08/14/2007	Cm-242	0E+00	+/- 5.8E-04	2.9E-04	5.5E-02	
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	08/14/2007	Cm-243/244	0E+00	+/- 4.0E-04	2.0E-04	3.8E-02	

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by

C.A. Shelton
Sample Control & Measurements Lead

Fe-55



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product FE-55

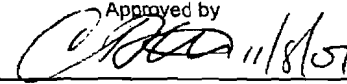
Report Date 11/08/07

Receipt Date 06/21/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU	Measured	Required	Reporting
		Date	Date		+/-	2-Sigma	1 Sigma	MDC	MDC	
Soil										
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	11/06/2007	Fe-55	6E+00	+/- 5.3E+00	2.7E+00	8.4E+00	2.0E+01

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

cc: Don McGee

Approved by

C.A. Shelton
Sample Control & Measurements Lead

Pu-238, 239/240



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

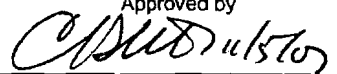
AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product PU-238,PU-239/240**Report Date** 11/04/07**Receipt Date** 06/21/07

LSN	Client ID & Description	Reference	Analysis		Activity Concentration	TPU	Measured	Required	Reporting	
		Date	Date	Nuclide	+/- 2-Sigma (pCi/g)	1 Sigma (pCi/g)	MDC (pCi/g)	MDC (pCi/g)		
Soil										
L12562-20	A4024 101C1 COMPOSITE SH1S1-21	05/16/2007	08/15/2007	Pu-238	0E+00 +/- 5.3E-04	2.7E-04	4.6E-02	1.0E-01		
L12562-20	A4024 101C1 COMPOSITE SH1S1-21	05/16/2007	08/15/2007	Pu-239/240	3.3E-02 +/- 4.8E-02	2.4E-02	5.9E-02	1.0E-01		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by

C.A. Shelton
Sample Control & Measurements Lead

Pu-241



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product PU-241

Report Date 11/08/07

Receipt Date 06/21/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU 1 Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Reporting	
		Date	Date		+/-	2-Sigma				Flags	Level Ratio
<u>Soil</u>											
L12562-20	A4024 101C1 COMPOSITE SH1S1-21	05/16/2007	11/03/0007	Pu-241	6.1E-01	+/- 9.4E-01	4.7E-01	1.5E+00	5.0E+00		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

Sr-89,90

Th-230, 232



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-8850

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Attention: Don McGee

Product TH-230, TH-232

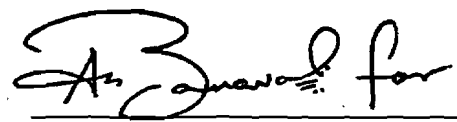
Report Date 11/15/07
Receipt Date 08/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
<u>Soil</u>										
L12562-20	A4024 101C1 Composite SH1S1-21	05/16/07	11/10/07	Th-228	9.8E-01 ± 4.2E-01	2.2E-01	6.8E-01	1.0E-01		
L12562-20	A4024 101C1 Composite SH1S1-21	05/16/07	11/10/07	Th-230	8.5E-01 ± 1.2E-01	7.3E-02	6.6E-02	1.0E-01		
L12562-20	A4024 101C1 Composite SH1S1-21	05/16/07	11/10/07	Th-232	1.08E+00 ± 1.3E-01	8.4E-02	3.4E-02	1.0E-01		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by

 11/15/07
J. M. Raimondi
Laboratory Manager

 for 11/16/07
C. A. Shelton
Sample Control and Measurements Lead

Page 1 of 1

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U-234,

U-235,

U-238



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product U-234, U-235, U-238

Report Date 11/14/07

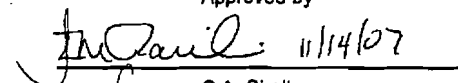
Receipt Date 06/21/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU	Measured	Required	Reporting		
		Date	Date		+/-	2-Sigma	1 Sigma	MDC	MDC			
<u>Soil</u>												
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	11/10/2007	U-234	5.77E-01	+/- 4.1E-02	2.9E-02	4.0E-03	1.0E-01	b	
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	11/10/2007	U-235	4.6E-02	+/- 1.3E-02	6.6E-03	4.9E-03	1.0E-01	b	
L12562-20	A4024 101C1 COMPOSITE	SH1S1-21	05/16/2007	11/10/2007	U-238	5.96E-01	+/- 4.1E-02	3.0E-02	4.0E-03	1.0E-01	b	

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

SNAP ENVIRONMENTAL TEST FACILITY D&D PROJECT
CANOGA PARK, CALIFORNIA

Page C- of

Survey Package Appendix C – Survey Results

Survey Package: *A4024 101C2* Package: *Environ.*
Survey Area Name: *SETF Paved Yard and Adjacent Soil Areas*
Survey Unit Name: *Buried Waste Tank/Vault Location*

Sample Analysis Results – Supplemental
8 Pages

H-3



Environmental Laboratory Analysis Report

29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attn: John McGehee

Product H-3

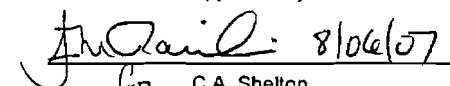
Report Date 08/06/07
Receipt Date 06/21/07

LSN	Client ID & Description	Reference	Analysis	Nuclide	Activity Concentration		TPU	Measured	Required	Reporting Flags Level Ratio
		Date	Date		+/-	2-Sigma	1 Sigma	MDC	MDC	
(pCi/g)										
<u>Soil</u>										
L12562-20	A4024 101C1 COMPOSITE SH1S1-21	05/16/2007	07/06/2007	H-3	-3E-01	+/- 1.0E+00	5.2E-01	1.6E+00	2.3E+00	

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one sigma counting uncertainty.

c: Don McGee

Approved by


for C.A. Shelton
Sample Control & Measurements Lead

Ni-59



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Attention: Don McGee

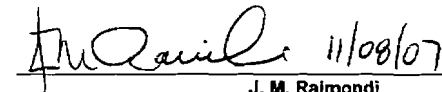
Product Ni-59

Report Date 11/07/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
<u>Soil</u>										
L12562-20	A4024 101C1 Composite SH1S1-21	05/16/07	10/19/07	Ni-59	-3E+02 ± 1.1E+03	5.5E+02	1.9E+03	2.0E+03		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by


J. M. Raimondi
Laboratory Manager


C. A. Shelton
Sample Control and Measurements Lead

Page 1 of 1

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Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Attention: John McGehee

Product Ni-59

Report Date 08/27/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration ± 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
Sol										
L12562-20	A4024 101C1 COMPOSIT SH1S1-21	05/16/07	08/16/07	Ni-59	-4.0E+02 ± 7.4E+02	3.7E+02	1.4E+03	2.0E+03		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by

 8/27/07

J. M. Raimondi
Laboratory Manager

 8/27/07

C. A. Shelton
Sample Control and Measurements Lead

Page 1 of 1

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Ni-63



Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-6650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285
Attention: Don McGee

Product Ni-63

Report Date 11/07/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration $\pm$ 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
Soil										
L12562-20	A4024 101C1 Composite SH1S1-21	05/16/07	10/23/07	Ni-63	0E+00 $\pm$ 5.2E+00	2.6E+00	8.6E+00	1.5E+01		

Flags:
a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by


11/08/07

J. M. Raimondi
Laboratory Manager


11/18/07

C. A. Shelton
Sample Control and Measurements Lead

Page 1 of 1

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Environmental Laboratory Analysis Report
29 Research Drive
Westboro, MA 01581
508-573-8650

Customer

AREVA NP Inc
AREVA NP Federal D&D Group
400 South Tryon Street
Charlotte, NC 28285

Attention: John McGehee

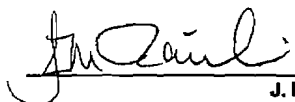
Product NI-63

Report Date 08/29/07
Receipt Date 06/19/07

LSN	Client ID & Description	Reference Date	Analysis Date	Nuclide	Activity Concentration $\pm$ 2-Sigma (pCi/g)	TPU 1-Sigma (pCi/g)	Measured MDC (pCi/g)	Required MDC (pCi/g)	Flags	Reporting Level Ratio
<u>Soil</u>										
L12562-20	A4024 101C1 COMPOSIT SH1S1-21	05/16/07	08/16/07	Ni-63	2E-01 $\pm$ 2.8E+00	1.4E+00	4.5E+00	1.5E+01		

Flags: a The measured MDC is greater than the required MDC.
b The activity concentration is greater than three times its one-sigma counting uncertainty.

Approved by

 8/29/07

J. M. Raimondi
Laboratory Manager

 8/30/07

C. A. Shelton
Sample Control and Measurements Lead

Page 1 of 1

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