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PRS 41

Removal Action

OSC REPORT

This Report Closes PRS 41, 41 Ditch, WWTP soil, Salvage Area, and Building 124 Footprint

June 2006

Final

Department of Energy
Miamisburg Closure Project

CH2MHILL

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CH2M HILL Mound, Inc.
1075 Mound Road
P.O. Box 750
Miamisburg, OH 45343-0750

CH2MHILL

SMO-441/06
July 20, 2006

Mr. Don Pfister, Director
Miamisburg Closure Project
U. S. Department of Energy
175 Tri-County Parkway
Springdale, OH 45246

ATTENTION: Paul Lucas

SUBJECT: **Contract No. DE-AC24-03OH20152:** Deliverable #39 Potential release site and removal action documentation; Section C.2.3.1.3 Remaining Response Actions; PRS 41 OSC Report, Final

Dear Mr. Pfister:

Attached is the following Final document for your records.

- PRS 41 OSC Report, Final

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Dave Rakel at 937-865-4203.

Sincerely,

Michael D. Ebben
Site Manager

ME/jg

Enclosures

cc: T. Fischer, USEPA, (1) w/attachments
B. Nickel, OEPA, (1) w/attachments
S.Helmer, ODH, (1) w/attachments
J. Crombie, ODH, (1) w/attachments
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R. Tormey, DOE/OH, (1) w/attachments
G. Desai, DOE/HQ, (1) w/attachments
C. Kline, CH2M Hill, (1) w/attachments
Public Reading Room (1) w/attachments
Admin Records, CH2M Hill, (2) w/attachs
ER Records, CH2M Hill, (1) w/attachs
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M. Ebben, CH2M Hill, w/o attachments
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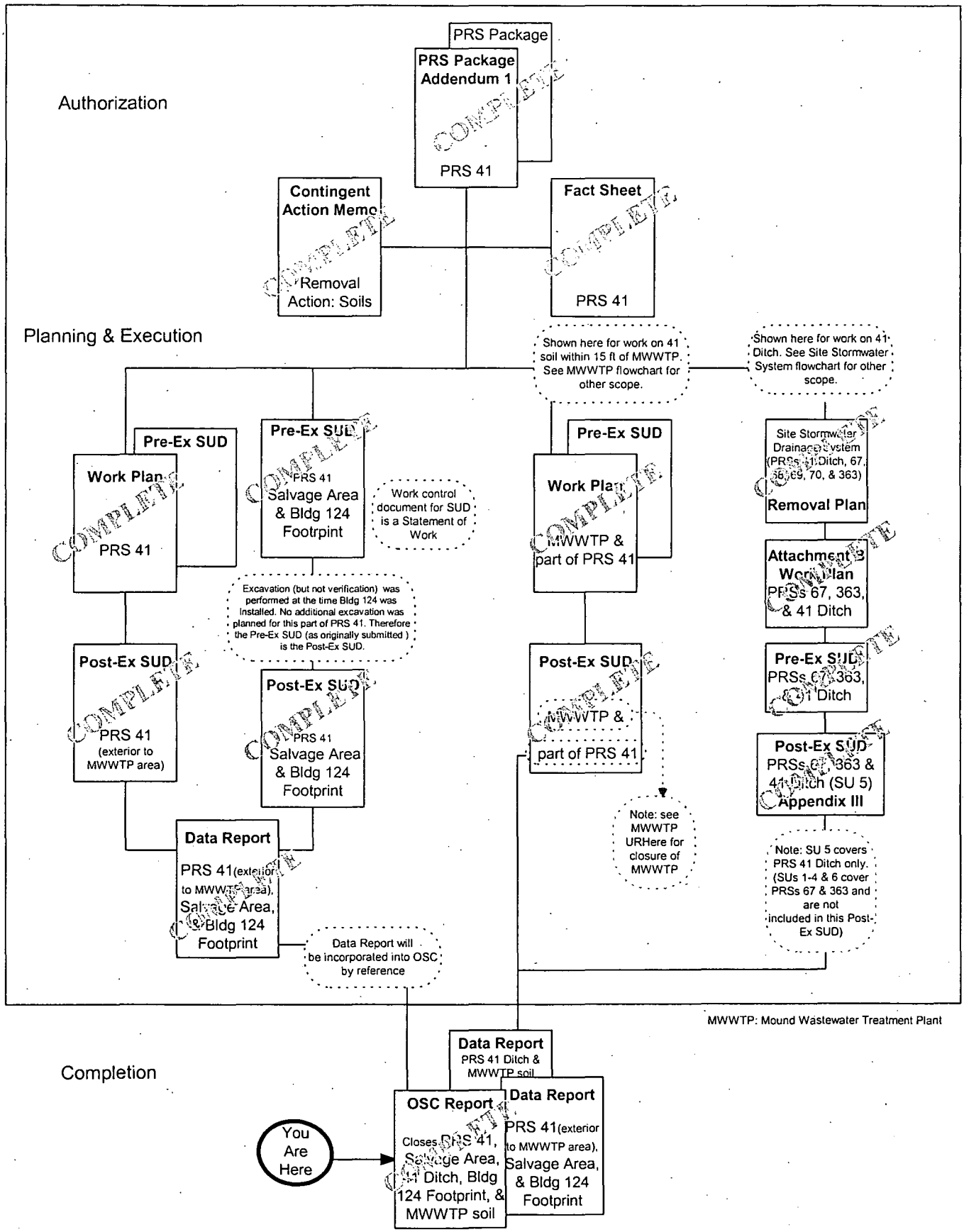
D. Kramer, CH2M Hill, w/o attachments
J. Fontaine, CH2M Hill, w/o attachments
S. Barr, CH2M Hill, w/o attachments
M. McDougal, CH2M Hill, w/o attachments
file, CH2M Hill, w/o attachments

PRS 41



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Attachment B	Data Report, PRS 41 (exterior to WWTP), Salvage Area 7 Building 124 Footprint, March 2006, Rev 0, Final
Attachment C	General Media Information
Attachment D	Public Fact Sheet

Acronyms

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CC	cleanup criteria
CO	cleanup objective
COC	contaminant of concern
cy	cubic yards
DOE	Department of Energy
Ex	Excavation
HS	hot spot
MCP	Miamisburg Closure Project
OEPA	Ohio Environmental Protection Agency
OSC	On-Scene Coordinator
pCi/g	picoCuries per gram
PRP	Potentially Responsible Parties
PRS	Potential Release Site
RA	Removal Action
RBGV	Risk-Based Guideline Value
SUD	Survey Unit Design
UCL	upper confidence limit
USEPA	United States Environmental Protection Agency
VSAP	Verification Sampling and Analysis Plan
WWTP	wastewater treatment plant

RECOMMENDATION: PRS 41

The Potential Release Site (PRS) 41 Removal Action (RA) was authorized via the Contingent Action Memo, (Action Memorandum EE/CA, Contingent Removal Action for Contaminated Soil, Final, June 2002) and Public Fact Sheet (PRS 41; Area 3 Thorium Drum Storage/Redrumming Area, Final, January 2004). Also included in this RA are closure of the Mound WWTP soil, 41 Ditch, Salvage Area, and Building 124 Footprint. These areas are collectively referred to as "PRS 41". The PRS 41 RA was performed as a result of historical knowledge and processes, and radiological surveys which showed elevated levels of Th-232 and Pu-238.

Verification sampling was performed per the associated Action Memo, the Standard VSAP, Soils Verification Sampling & Analysis Plan [VSAP], Final, August 2004, and the Post-Excavation SUDs to demonstrate that the remaining soil meets the cleanup criteria. This removal action was successfully completed and resulted in the excavation and disposal of approximately 5,347 cubic yards of soil.

The cleanup criteria established in the Standard VSAP are satisfied if all verification sample results are below cleanup objectives (COs) or all sample results are below hot spot (HS) criteria and the 95% UCL (upper confidence limit) for the area of interest is less than the CO and the data set passes the Sign test. All results, including those above CO, met the cleanup criteria described above.

After a thorough review of this On-Scene Coordinator (OSC) Report, the Core Team agrees that the RA associated with PRS 41 is complete, and that all previously existing environmental issues associated with it have been resolved.

Paul L 7/6/06

Paul Lucas, OSC
U.S. Department of Energy
Springdale, Ohio

7/6/06

Timothy J. Fischer, Remedial Project Manager
USEPA
Chicago, Illinois

6/29/06

Brian Nickel, Project Manager
OEPA
Dayton, Ohio

1.0 SUMMARY OF EVENTS

This section describes the site background and events leading up to the removal action (RA), parties involved in responding to the RA, cleanup objective (CO) determination, chronological narrative of the RA, and resources committed to complete the projects.

1.1 Site Conditions and Background

Background. Potential Release Site (PRS) 41 is the site of an historic thorium drum staging and redrumming area. In addition to the drum area, this OSC Report also closes out the following:

- Soil areas associated with a former wastewater treatment plant (WWTP) that was located within PRS 41.
- PRS 41 Ditch, which is the site of Pu-238 contamination resulting from an historic waste line break.
- The former Salvage Area, which is the site of an historic cleanup (partially within PRS 41) but the area was not previously verified.
- The footprint of former Building 124.

This OSC Report closes the PRS 41 drumming/redrumming area as well as the Mound WWTP soil, the 41 Ditch, the Salvage Area, and the footprint of former Building 124. For the purposes of this OSC Report, "PRS 41" henceforth refers to all of the above areas combined.

Removal Action. The PRS 41 RA was authorized via the Contingent Action Memorandum, Final, June 2002 and Public Fact Sheet (PRS 41: Area 3 Thorium Drum Storage/Redrumming Area, Final, January 2004). The level of soil radiological contamination present warranted a RA under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act). The location of PRS 41 is shown on Figure 1 of Appendix A (A7/173).

Verification sampling and analysis were performed in accordance with the Standard VSAP, Soils Verification Sampling & Analysis Plan [VSAP], Final, August 2004; and the Post-Excavation (Ex) Survey Unit Designs (SUDs). Excerpts of the associated SUDs are included in Appendix C of Attachment A and Attachment B to this On-Scene Coordinator (OSC) Report. Verification sampling was performed and the results demonstrate that the remaining soil meets the Cleanup Criteria (CC).

Since the Department of Energy (DOE) is the sole responsible party for verification of PRS 41, no Potentially Responsible Parties (PRPs) were sought to clean up the site. Monsanto Research Corporation, EG&G Mound Applied Technologies, and BWXT of Ohio, Inc were the operating contractors at the site from 1948 to 30 September 1988, from 1 October 1988 until 30 September 1997, and from 1 October 1997 until 31 December 2002 respectively. CH2M Hill Mound, Inc. became the site contractor for the Miamisburg Closure Project (MCP) effective January 1, 2003.

1.2 Organization of the Removal Actions

Table 1 lists the parties responding to the removal actions, and their responsibilities.

Table 1: Organization of the Removal Action

US Environmental Protection Agency (USEPA) SFR-5J 77 W. Jackson Street Chicago, IL 60604 312-353-2000	Timothy J. Fischer	Federal agency responsible for oversight
Ohio Environmental Protection Agency (OEPA) 401 E. Fifth Street Dayton, OH 45402-2911 937-285-6357	Brian K. Nickel	State agency responsible for oversight
US Dept. of Energy Miamisburg Closure Project 175 Tri-County Parkway Springdale, OH 45246 513-246-0071	Paul Lucas	On-scene Coordinator responsible for oversight and success
CH2M HILL Environmental Restoration Project 1075 Mound Road Miamisburg, OH 45343-3030 937-608-8220	Jim Fontaine	Provide OSC with technical assistance, administrative support, field oversight, sample management, site safety, photo, site documentation, and preparation of the OSC Report

1.3 Objectives

Documentation Objective. The objectives of this OSC Report are to describe the RA fieldwork and document successful completion of the project. Material quantities, disposition locations, and project costs are included in Tables 2 and 3.

Table 2: Materials and Disposition

Type of Material	Quantity (yd^3)	Disposal Method	Disposal Location
Contaminated soil/debris	5,347	Rail transport	Envirocare of Utah

Table 3: Removal Cost

Cost Category	Cost
Planning/Fieldwork/ Restoration/grading/seeding Subcontractors (Verification Sampling, Analyses, & Data Validation) Closure Documentation	$105,555
Transportation/Disposal of Contaminated Soil	$615,000
Estimated Total Project Cost	$720,555

Cleanup Objective. Contaminants and COs for PRS 41 are identified in Table 4.

Table 4: Soil Cleanup Objectives (pCi/g)

Analyte	Cleanup Objective	Hot Spot	Location
Actinium-227+D	4.6	13.61	Salvage Area Bldg 124 Footprint
Lead-210+D	7.4	19.8	Salvage Area 41 Ditch
Plutonium-238	55	165	Bldg 124 Footprint WWTP Soil 41 Ditch
Protactinium-231+D	4.0	11.81	Salvage Area
Radium-226+D	2.9	4.7	Salvage Area PRS 41 WWTP Soil
Radium-228+D	2.1	6.38	WWTP Soil
Thorium-228+D	2.6	4.8	41 Ditch
Thorium-230+D	2.8	4.6	Salvage Area
Thorium-232+D	2.1	3.5	Salvage Area PRS 41 WWTP Soil 41 Ditch
Uranium-238+D	2.2	4.2	PRS 41

+D includes daughter product activity

Cleanup Criteria.
The cleanup criteria are satisfied if all verification sample results are below CO or all sample results are below hot spot (HS) criteria and the 95% UCL (upper confidence limit) for the area of interest is less than the CO and the data set passes the Sign test.

PRS 41 WWTP Soil & 41 Ditch Data Report (Attachment A to this OSC Report). Verification results are identified in the Table 1 (A11/173). Verification sampling confirmed all results are below Hot Spot criteria. Two verification results for Th-232 of 3.3 and 2.23 pCi/g exceeded the CO of 2.1 pCi/g. One verification result for Pu-238 of 129 pCi/g exceeded the CO of 55 pCi/g. One verification result for Ra-228 of 2.48 pCi/g exceeded the CO of 2.1 pCi/g. One result of Th-228 (3.35 pCi/g) and Ac-228 (2.48 pCi/g) exceeded their COs of 2.6 and 1.93 pCi/g, respectively. The Thallium-208 (Tl-208) 10^{-5} Risk-Based Guideline Value (RBGV) based on the most conservative of Construction Worker and Site Employee scenarios is 0.498 pCi/g and is not inclusive of background or daughter product activity. One Tl-208 result (2.48 pCi/g) exceeded the 10^{-5} RBGV. All other results are below COs. Tl-208, Th-228, and Ac-228 are daughter products in the Th-232 decay chain. Since Th-232 is a contaminant of concern (COC), and all Th-232 results meet the cleanup criteria, the Tl-208, Th-228, and Ac-228 CO exceedances are not considered significant because the CO for the parent nuclide (Th-232) accounts for daughter product activity. Therefore, no further action will be taken based on the parent nuclide (Th-232+D) results. All results, including those above CO, met the cleanup criteria described above.

PRS 41, Salvage Area, and Building 124 Footprint Data Report, Final, March 2006 (Attachment B to this OSC Report). Verification results are identified in the Tables 1-3 (B12/57). Verification sampling confirmed all results are below Cleanup Objectives for all analytes.

Hot Spot Criteria. The Hot Spot criteria for the COCs are presented in Table 4 above. There were no sample results that exceeded the hot spot criteria for any analyte.

1.4 Chronological Narrative of the Removal Action

Table 5 presents a chronological narrative of events surrounding the RA.

Table 5: Chronology of RA

Timeframe	Activity
June 2002	Contingent AM finalized
November 2003	PRS 41 Fact Sheet approved
August 2005	PRS 69/70 Removal Plan approved
January-March 2006	RA fieldwork and excavation
May 2005 - April 2006	Verification sampling & analysis
March 2006	PRS 41, Salvage Area, and Building 124 Footprint Data Report finalized
June 2006	OSC Report prepared

2.0 EFFECTIVENESS OF THE REMOVAL ACTIONS

The PRS 41 removal action is complete, and the objectives of the Action Memorandum have been met. The limits of verification are identified on Figures 2 and 3 (see A8&9/173) and Figures 2, 3 and 4 (see B9-11/57). Results of verification sampling and analysis are provided in Attachment A and Attachment B.

2.1 Actions Taken by Mound Personnel

CH2M Hill Mound, Inc. personnel planned and performed removal action oversight, and performed excavation, monitoring, sampling and analyses, and documentation. The project met the removal action objectives (Section 1.3), as outlined in the Action Memorandum.

2.2 Actions Taken by Local, State, and Federal Agencies

The DOE/MCP was the lead agency for the RA and provided the funding. DOE, USEPA, and OEPA had oversight responsibility for the RA and review of the Action Memorandum and OSC Report to ensure that the objectives were met.

2.3 Actions Taken by Subcontractors

Subcontractors involved in the project included:

- Envirocare (Clive, Utah) - disposal of radiologically contaminated waste via rail transport.
- Severn Trent Laboratory (St. Louis, MO) – analyzed verification samples.
- SAIC (Dublin, OH) – sample collection, data management, and validation.

3.0 DIFFICULTIES ENCOUNTERED

3.1 Items that Affect the Removal Actions

No difficulties were encountered during the removal actions.

3.2 Issues of Intergovernmental Coordination

All DOE/OEPA/USEPA interactions were good. The agencies were updated informally on a regular basis, and formally at monthly Core Team meetings. The Mound 2000 Process worked well.

4.0 RECOMMENDATIONS

4.1 Means to Prevent a Recurrence

Soil sampling verified removal of radiological contamination. Mound Removal Actions have regulator approved work plans, each of which has a section that addresses runon/runoff controls. In addition, the site Storm Water Pollution Prevention Plan applies to the entire site and is monitored by the Environmental Compliance and Analytical Services group. As a result of the removal of contamination and the implementation of runon/runoff protection, spread of contamination is prevented. After the removal action and the CERCLA process for the parcel are complete, the area will be transferred from Federal to private ownership. All State and Federal disposal rules will apply.

ATTACHMENT A

DATA REPORT, PRS 41 WWTP Soil & 41 Ditch, June 2006, Rev 0

DATA REPORT

PRS 41 WWTP Soil & 41 Ditch

June 2006

Rev. 0

Department of Energy

Miamisburg Closure Project

CH2MHILL

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Figure 2: PRS 41 WWTP Soil (SU4) Verification Locations

Figure 3: 41 Ditch (SU5) Verification Locations

Tables

Table 1: Offsite Verification Results

Table 2: 95% UCL for Pu-238 at SU5

Table 3: Sign Test for Pu-238 at SU5

Table 4: Recalculation of N for SU5

Table 5: Retro Power Curve SU5

Appendices

Appendix A Figures

Appendix B Tables

Appendix C Post-Ex SUD Excerpts

Appendix D Backfill Package

Appendix E Walkover Surveys

Appendix F Data Review & Validation

A2/173

Acronyms

Ex	Excavation
pCi/g	picoCuries per gram
PRS	Potential Release Site
QC	quality control
RA	removal action
R&V	review and validation
SUD	Survey Unit Design
UCL	upper confidence limit
VSAP	Verification Sampling and Analysis Plan
WWTP	wastewater treatment plant

1.0 PURPOSE

This Data Report provides documentation of sampling activities conducted in accordance with the Standard VSAP, Soils Verification Sampling and Analysis Plan [VSAP], Final, August 2004; required to close out the wastewater treatment plant (WWTP) soil within Potential Release Site (PRS) 41 and the 41 Ditch. The locations of the WWTP and 41 Ditch are shown on Figure 1.

The purposes of this Data Report are to:

- document any variances to the VSAP/Post-Excavation (Ex) Survey Unit Designs (SUDs),
- present statistical and bias data (separately),
- present summary statistics and statistical analyses of the applicable data, including retrospective power curve, and
- provide documentation of data review and validation.

2.0 DOCUMENT ORGANIZATION / SUMMARY

This Data Report includes verification of the former WWTP soil area (Survey Unit 4) and the 41 Ditch (Survey Unit 5). Documentation of verification of SUs 1-3 is included in PRS 41 (exterior to WWTP), Salvage Area, & Building 124 Footprint Data Report, Final, Revision 0, March 2006, which is incorporated herein by reference.

Unless otherwise specified as a variance, sampling and analyses were conducted in accordance with the VSAP and Post-Ex SUDs.

3.0 FIELD ACTIVITIES

3.1 PRS 41 WWTP SOIL

Verification sampling locations for the PRS 41 WWTP area are shown on Figure 2 and verification sampling occurred in February and March 2006. The samples were field-screened by a radiological control technician at the site and screened by the Mound Soil Screening Laboratory prior to shipment to the contract laboratory. Samples were submitted to Severn Trent St. Louis lab for gamma spec and isotopic thorium and plutonium analyses. Results are reported in Table 1. Backfill information (including

statistical analysis) that was submitted to the Core Team in April 2006 is included in Appendix D. Walkover survey documentation is provided in Appendix E.

3.2 41 DITCH

Verification sampling locations for the 41 Ditch are shown on Figure 3 and verification sampling occurred in March and April 2006. The samples were field-screened by a radiological control technician at the site and screened by the Mound Soil Screening Laboratory prior to shipment to the contract laboratory. Samples were submitted to Severn Trent St. Louis lab for gamma spec and isotopic thorium and plutonium analyses. Results are reported in Table 1. Since no backfill was required, a Backfill Information Package was not prepared. Rocks were installed within the ditch to support drainage and enhance erosion control. The Sign test and 95% UCL (upper confidence limit) calculation for Pu-238 at SU5 (one result above cleanup objective) are provided in Tables 2-3. Walkover survey documentation is provided in Appendix E.

4.0 DATA REVIEW / VALIDATION

All data were reviewed and 10% of offsite data were validated.

Field and laboratory QC (quality control) were assessed as part of the data review and validation (R&V) process.

Documentation of review and validation (and related variances) is provided in Appendix F. Review and validation supports that the data are usable.

A 5/173

APPENDIX A

FIGURES

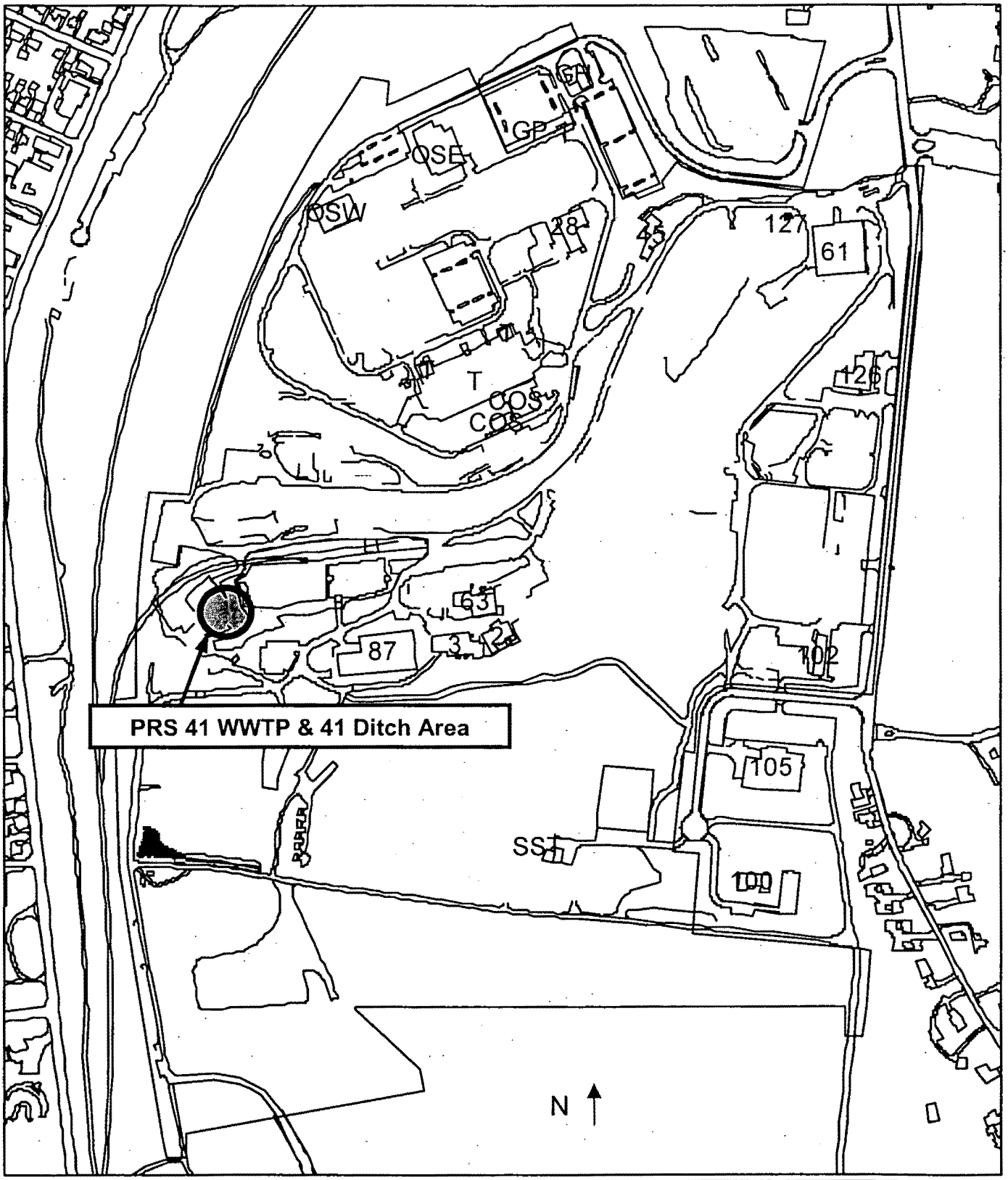

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Figure 1:
Location of PRS 41 WWTP & 41 Ditch Area

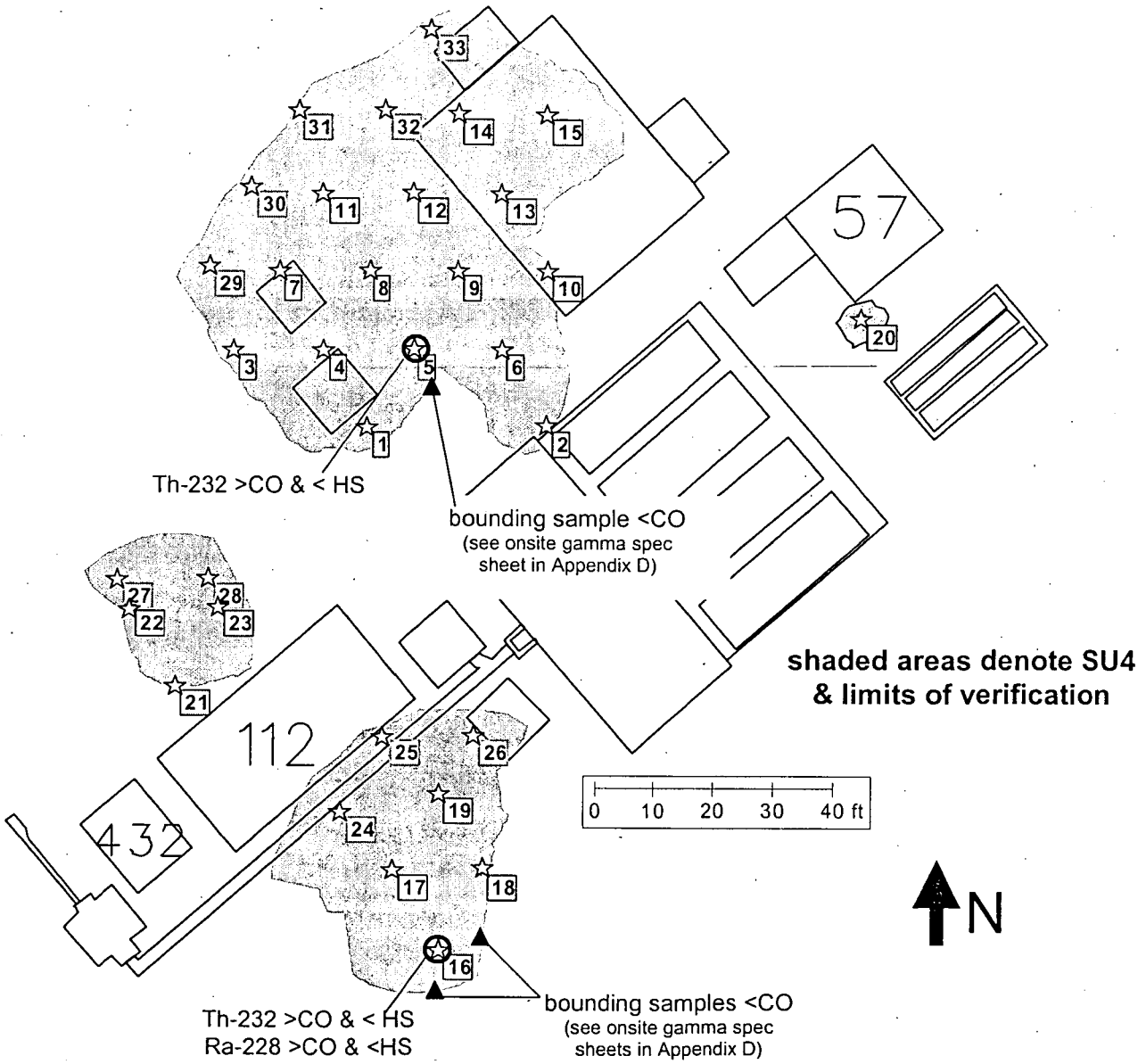

Figure 2: PRS 41 WWTP Soil (SU4) Verification Locations

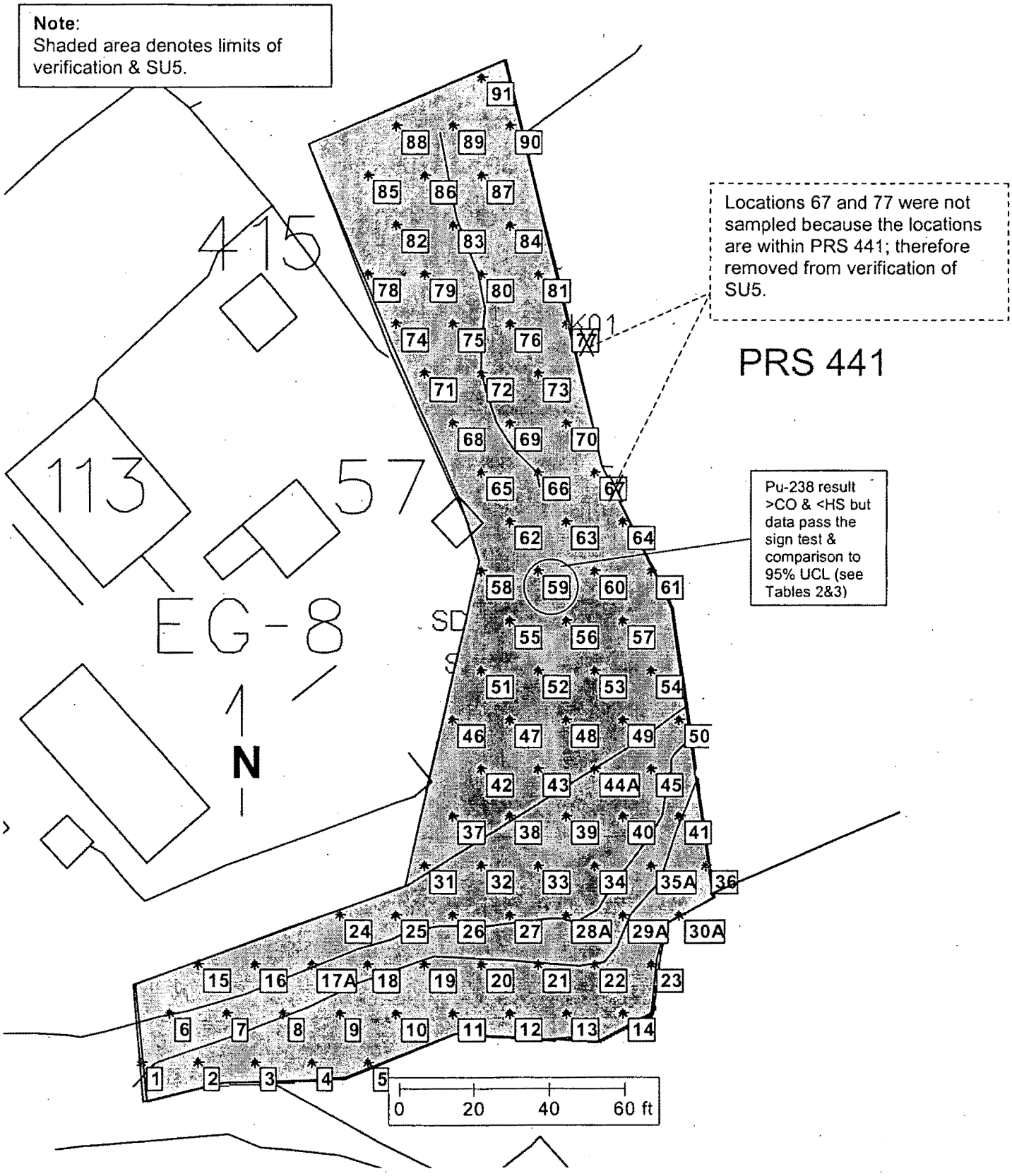

Figure 3: 41 Ditch (SU5) Verification Locations

APPENDIX B

TABLES

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-001	Actinium-227	4.60	0.530	0.530	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Actinium-228	1.93	0.910	0.470	02/16/2006		J	1464157.480	597875.817
SU4-41-001	Americium-241	63.00	0.230	0.230	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Bismuth-207	1.20	0.110	0.110	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Bismuth-210M	8.30	0.120	0.120	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Bismuth-214	1.17	0.590	0.490	02/16/2006			1464157.480	597875.817
SU4-41-001	Cesium-137	3.80	0.160	0.160	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Cobalt-60	0.70	0.200	0.200	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Lead-210	7.40	3.100	3.100	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Lead-212	16.60	1.050	0.140	02/16/2006			1464157.480	597875.817
SU4-41-001	Plutonium-238	55.00	0.110	0.110	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Plutonium-239/240	62.00	0.031	0.031	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Potassium-40	47.80	32.100	1.300	02/16/2006			1464157.480	597875.817
SU4-41-001	Protactinium-231	4.00	2.300	2.300	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Radium-226	2.90	0.590	0.490	02/16/2006		J	1464157.480	597875.817
SU4-41-001	Radium-228	2.10	0.910	0.470	02/16/2006		J	1464157.480	597875.817
SU4-41-001	Thorium-228	2.60	1.060	0.060	02/16/2006			1464157.480	597875.817
SU4-41-001	Thorium-229	18.90	1.200	1.200	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Thorium-230	2.80	0.950	0.070	02/16/2006			1464157.480	597875.817
SU4-41-001	Thorium-232	2.10	1.180	0.060	02/16/2006			1464157.480	597875.817
SU4-41-001	Uranium-235	3.20	1.300	1.300	02/16/2006	U	UJ	1464157.480	597875.817
SU4-41-001	Uranium-238	2.20	2.700	2.700	02/16/2006	U	U	1464157.480	597875.817
SU4-41-002	Actinium-227	4.60	0.450	0.450	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Actinium-228	1.93	0.930	0.240	02/16/2006			1464187.480	597875.817
SU4-41-002	Americium-241	63.00	0.180	0.180	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Bismuth-207	1.20	0.067	0.067	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Bismuth-210M	8.30	0.110	0.110	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Bismuth-214	1.17	0.360	0.360	02/16/2006	U	U	1464187.480	597875.817
SU4-41-002	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Cobalt-60	0.70	0.120	0.120	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Lead-210	7.40	2.200	2.200	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Lead-212	16.60	0.470	0.160	02/16/2006			1464187.480	597875.817
SU4-41-002	Plutonium-238	55.00	0.150	0.061	02/16/2006		J	1464187.480	597875.817
SU4-41-002	Plutonium-239/240	62.00	0.042	0.042	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Potassium-40	47.80	14.600	1.100	02/16/2006			1464187.480	597875.817
SU4-41-002	Protactinium-231	4.00	1.900	1.900	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Radium-226	2.90	0.360	0.360	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Radium-228	2.10	0.930	0.240	02/16/2006			1464187.480	597875.817
SU4-41-002	Thorium-228	2.60	0.800	0.080	02/16/2006			1464187.480	597875.817
SU4-41-002	Thorium-229	18.90	0.860	0.860	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Thorium-230	2.80	1.230	0.030	02/16/2006			1464187.480	597875.817
SU4-41-002	Thorium-232	2.10	0.700	0.030	02/16/2006			1464187.480	597875.817
SU4-41-002	Uranium-235	3.20	1.200	1.200	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-002	Uranium-238	2.20	1.900	1.900	02/16/2006	U	UJ	1464187.480	597875.817
SU4-41-003	Actinium-227	4.60	0.800	0.550	02/16/2006			1464134.980	597888.807
SU4-41-003	Actinium-228	1.93	0.720	0.250	02/16/2006			1464134.980	597888.807
SU4-41-003	Americium-241	63.00	0.170	0.170	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Bismuth-207	1.20	0.076	0.076	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Bismuth-210M	8.30	0.089	0.089	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Bismuth-214	1.17	0.510	0.310	02/16/2006			1464134.980	597888.807
SU4-41-003	Cesium-137	3.80	0.095	0.095	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Cobalt-60	0.70	0.069	0.069	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Lead-210	7.40	2.000	2.000	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Lead-212	16.60	0.390	0.130	02/16/2006			1464134.980	597888.807
SU4-41-003	Plutonium-238	55.00	0.360	0.090	02/16/2006			1464134.980	597888.807
SU4-41-003	Plutonium-239/240	62.00	0.051	0.051	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Potassium-40	47.80	13.800	0.700	02/16/2006			1464134.980	597888.807
SU4-41-003	Protactinium-231	4.00	1.800	1.800	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Radium-226	2.90	0.510	0.310	02/16/2006		J	1464134.980	597888.807
SU4-41-003	Radium-228	2.10	0.720	0.250	02/16/2006			1464134.980	597888.807

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-003	Thorium-228	2.60	0.850	0.050	02/16/2006			1464134.980	597888.807
SU4-41-003	Thorium-229	18.90	0.980	0.980	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Thorium-230	2.80	0.960	0.050	02/16/2006			1464134.980	597888.807
SU4-41-003	Thorium-232	2.10	0.730	0.030	02/16/2006			1464134.980	597888.807
SU4-41-003	Uranium-235	3.20	0.820	0.820	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-003	Uranium-238	2.20	1.700	1.700	02/16/2006	U	UJ	1464134.980	597888.807
SU4-41-004	Actinium-227	4.60	0.470	0.470	02/16/2006	U	U	1464149.980	597888.807
SU4-41-004	Actinium-228	1.93	0.540	0.540	02/16/2006	U	U	1464149.980	597888.807
SU4-41-004	Americium-241	63.00	0.190	0.190	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Bismuth-207	1.20	0.076	0.076	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Bismuth-210M	8.30	0.100	0.100	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Bismuth-214	1.17	0.680	0.420	02/16/2006			1464149.980	597888.807
SU4-41-004	Cesium-137	3.80	0.093	0.093	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Cobalt-60	0.70	0.130	0.130	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Lead-210	7.40	2.600	2.600	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Lead-212	16.60	0.550	0.170	02/16/2006			1464149.980	597888.807
SU4-41-004	Plutonium-238	55.00	1.320	0.080	02/16/2006			1464149.980	597888.807
SU4-41-004	Plutonium-239/240	62.00	0.051	0.051	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Potassium-40	47.80	12.900	1.100	02/16/2006			1464149.980	597888.807
SU4-41-004	Protactinium-231	4.00	2.100	2.100	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Radium-226	2.90	0.680	0.420	02/16/2006		J	1464149.980	597888.807
SU4-41-004	Radium-228	2.10	0.540	0.540	02/16/2006	U	U	1464149.980	597888.807
SU4-41-004	Thorium-228	2.60	0.710	0.040	02/16/2006			1464149.980	597888.807
SU4-41-004	Thorium-229	18.90	1.200	1.200	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Thorium-230	2.80	0.820	0.030	02/16/2006			1464149.980	597888.807
SU4-41-004	Thorium-232	2.10	0.550	0.050	02/16/2006			1464149.980	597888.807
SU4-41-004	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-004	Uranium-238	2.20	2.000	2.000	02/16/2006	U	UJ	1464149.980	597888.807
SU4-41-005	Actinium-227	4.60	2.100	0.960	02/16/2006			1464164.980	597888.807
SU4-41-005	Actinium-228	1.93	0.980	0.400	02/16/2006		J	1464164.980	597888.807
SU4-41-005	Americium-241	63.00	0.250	0.250	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Bismuth-207	1.20	0.092	0.092	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Bismuth-210M	8.30	0.140	0.140	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Bismuth-214	1.17	0.710	0.420	02/16/2006			1464164.980	597888.807
SU4-41-005	Cesium-137	3.80	0.130	0.130	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Cobalt-60	0.70	0.150	0.150	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Lead-210	7.40	3.100	3.100	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Lead-212	16.60	1.200	0.210	02/16/2006			1464164.980	597888.807
SU4-41-005	Plutonium-238	55.00	0.167	0.090	02/16/2006		J	1464164.980	597888.807
SU4-41-005	Plutonium-239/240	62.00	0.051	0.051	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Potassium-40	47.80	35.000	1.300	02/16/2006			1464164.980	597888.807
SU4-41-005	Protactinium-231	4.00	2.500	2.500	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Radium-226	2.90	0.710	0.420	02/16/2006		J	1464164.980	597888.807
SU4-41-005	Radium-228	2.10	0.980	0.400	02/16/2006		J	1464164.980	597888.807
SU4-41-005	Thorium-228	2.60	2.060	0.070	02/16/2006			1464164.980	597888.807
SU4-41-005	Thorium-229	18.90	1.400	1.400	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Thorium-230	2.80	1.160	0.040	02/16/2006			1464164.980	597888.807
SU4-41-005	**Thorium-232**	**2.10**	**2.230**	**0.030**	**02/16/2006**			**1464164.980**	**597888.807**
SU4-41-005	Uranium-235	3.20	1.400	1.400	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005	Uranium-238	2.20	2.600	2.600	02/16/2006	U	U	1464164.980	597888.807
SU4-41-005D	Actinium-227	4.60	0.530	0.530	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Actinium-228	1.93	1.920	0.500	02/16/2006			1464164.980	597888.807
SU4-41-005D	Americium-241	63.00	0.220	0.220	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Bismuth-207	1.20	0.093	0.093	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Bismuth-210M	8.30	0.140	0.140	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Bismuth-214	1.17	0.880	0.470	02/16/2006			1464164.980	597888.807
SU4-41-005D	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Cobalt-60	0.70	0.140	0.140	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Lead-210	7.40	2.600	2.600	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Lead-212	16.60	1.700	0.210	02/16/2006			1464164.980	597888.807

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-005D	Plutonium-238	55.00	0.260	0.070	02/16/2006			1464164.980	597888.807
SU4-41-005D	Plutonium-239/240	62.00	0.065	0.065	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Potassium-40	47.80	39.400	1.300	02/16/2006			1464164.980	597888.807
SU4-41-005D	Protactinium-231	4.00	2.500	2.500	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Radium-226	2.90	0.880	0.470	02/16/2006		J	1464164.980	597888.807
SU4-41-005D	Radium-228	2.10	1.920	0.500	02/16/2006			1464164.980	597888.807
SU4-41-005D	Thorium-228	2.60	1.530	0.070	02/16/2006		J	1464164.980	597888.807
SU4-41-005D	Thorium-229	18.90	1.200	1.200	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Thorium-230	2.80	0.830	0.040	02/16/2006			1464164.980	597888.807
SU4-41-005D	Thorium-232	2.10	1.540	0.060	02/16/2006		J	1464164.980	597888.807
SU4-41-005D	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-005D	Uranium-238	2.20	2.300	2.300	02/16/2006	U	UJ	1464164.980	597888.807
SU4-41-006	Actinium-227	4.60	0.670	0.670	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Actinium-228	1.93	0.940	0.440	02/16/2006		J	1464179.980	597888.807
SU4-41-006	Americium-241	63.00	0.230	0.230	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Bismuth-207	1.20	0.097	0.097	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Bismuth-210M	8.30	0.140	0.140	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Bismuth-214	1.17	0.690	0.490	02/16/2006			1464179.980	597888.807
SU4-41-006	Cesium-137	3.80	0.130	0.130	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Cobalt-60	0.70	0.130	0.130	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Lead-210	7.40	3.100	3.100	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Lead-212	16.60	0.960	0.210	02/16/2006			1464179.980	597888.807
SU4-41-006	Plutonium-238	55.00	0.075	0.075	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Plutonium-239/240	62.00	0.045	0.045	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Potassium-40	47.80	26.300	1.700	02/16/2006			1464179.980	597888.807
SU4-41-006	Protactinium-231	4.00	2.700	2.700	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Radium-226	2.90	0.690	0.490	02/16/2006		J	1464179.980	597888.807
SU4-41-006	Radium-228	2.10	0.940	0.440	02/16/2006		J	1464179.980	597888.807
SU4-41-006	Thorium-228	2.60	1.320	0.100	02/16/2006			1464179.980	597888.807
SU4-41-006	Thorium-229	18.90	1.400	1.400	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Thorium-230	2.80	1.080	0.030	02/16/2006			1464179.980	597888.807
SU4-41-006	Thorium-232	2.10	1.400	0.050	02/16/2006			1464179.980	597888.807
SU4-41-006	Uranium-235	3.20	1.300	1.300	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-006	Uranium-238	2.20	2.600	2.600	02/16/2006	U	UJ	1464179.980	597888.807
SU4-41-007	Actinium-227	4.60	0.750	0.540	02/16/2006			1464142.480	597901.798
SU4-41-007	Actinium-228	1.93	0.310	0.310	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Americium-241	63.00	0.150	0.150	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Bismuth-207	1.20	0.073	0.073	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Bismuth-210M	8.30	0.098	0.098	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Bismuth-214	1.17	0.600	0.330	02/16/2006			1464142.480	597901.798
SU4-41-007	Cesium-137	3.80	0.080	0.080	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Cobalt-60	0.70	0.110	0.110	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Lead-210	7.40	2.300	2.300	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Lead-212	16.60	0.434	0.120	02/16/2006			1464142.480	597901.798
SU4-41-007	Plutonium-238	55.00	0.077	0.077	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Plutonium-239/240	62.00	0.054	0.054	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Potassium-40	47.80	10.800	1.000	02/16/2006			1464142.480	597901.798
SU4-41-007	Protactinium-231	4.00	1.800	1.800	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Radium-226	2.90	0.600	0.330	02/16/2006		J	1464142.480	597901.798
SU4-41-007	Radium-228	2.10	0.310	0.310	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Thorium-228	2.60	0.520	0.050	02/16/2006			1464142.480	597901.798
SU4-41-007	Thorium-229	18.90	0.990	0.990	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Thorium-230	2.80	0.980	0.050	02/16/2006			1464142.480	597901.798
SU4-41-007	Thorium-232	2.10	0.400	0.030	02/16/2006			1464142.480	597901.798
SU4-41-007	Uranium-235	3.20	0.890	0.890	02/16/2006	U	UJ	1464142.480	597901.798
SU4-41-007	Uranium-238	2.20	1.800	1.800	02/16/2006	U	U	1464142.480	597901.798
SU4-41-008	Actinium-227	4.60	0.420	0.420	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Actinium-228	1.93	0.560	0.560	02/16/2006	U	U	1464157.480	597901.798
SU4-41-008	Americium-241	63.00	0.170	0.170	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Bismuth-207	1.20	0.057	0.057	02/16/2006	U	UJ	1464157.480	597901.798

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-008	Bismuth-210M	8.30	0.084	0.084	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Bismuth-214	1.17	0.640	0.400	02/16/2006			1464157.480	597901.798
SU4-41-008	Cesium-137	3.80	0.082	0.082	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Cobalt-60	0.70	0.069	0.069	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Lead-210	7.40	2.100	2.100	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Lead-212	16.60	0.350	0.160	02/16/2006			1464157.480	597901.798
SU4-41-008	Plutonium-238	55.00	0.087	0.087	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Plutonium-239/240	62.00	0.065	0.065	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Potassium-40	47.80	8.900	0.700	02/16/2006			1464157.480	597901.798
SU4-41-008	Protactinium-231	4.00	1.700	1.700	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Radium-226	2.90	0.640	0.400	02/16/2006		J	1464157.480	597901.798
SU4-41-008	Radium-228	2.10	0.560	0.560	02/16/2006	U	U	1464157.480	597901.798
SU4-41-008	Thorium-228	2.60	0.420	0.080	02/16/2006			1464157.480	597901.798
SU4-41-008	Thorium-229	18.90	0.990	0.990	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Thorium-230	2.80	0.860	0.050	02/16/2006			1464157.480	597901.798
SU4-41-008	Thorium-232	2.10	0.450	0.030	02/16/2006			1464157.480	597901.798
SU4-41-008	Uranium-235	3.20	0.870	0.870	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-008	Uranium-238	2.20	1.800	1.800	02/16/2006	U	UJ	1464157.480	597901.798
SU4-41-009	Actinium-227	4.60	1.770	0.810	02/16/2006			1464172.480	597901.798
SU4-41-009	Actinium-228	1.93	1.000	0.470	02/16/2006			1464172.480	597901.798
SU4-41-009	Americium-241	63.00	0.220	0.220	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Bismuth-207	1.20	0.082	0.082	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Bismuth-210M	8.30	0.110	0.110	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Bismuth-214	1.17	0.470	0.190	02/16/2006			1464172.480	597901.798
SU4-41-009	Cesium-137	3.80	0.092	0.092	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Cobalt-60	0.70	0.120	0.120	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Lead-210	7.40	2.800	2.800	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Lead-212	16.60	1.110	0.160	02/16/2006			1464172.480	597901.798
SU4-41-009	Plutonium-238	55.00	0.115	0.079	02/16/2006		J	1464172.480	597901.798
SU4-41-009	Plutonium-239/240	62.00	0.051	0.051	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Potassium-40	47.80	18.000	0.200	02/16/2006			1464172.480	597901.798
SU4-41-009	Protactinium-231	4.00	2.500	2.500	02/16/2006	U	U	1464172.480	597901.798
SU4-41-009	Radium-226	2.90	0.470	0.190	02/16/2006		J	1464172.480	597901.798
SU4-41-009	Radium-228	2.10	1.000	0.470	02/16/2006			1464172.480	597901.798
SU4-41-009	Thorium-228	2.60	1.550	0.060	02/16/2006			1464172.480	597901.798
SU4-41-009	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Thorium-230	2.80	0.890	0.050	02/16/2006			1464172.480	597901.798
SU4-41-009	Thorium-232	2.10	1.590	0.060	02/16/2006			1464172.480	597901.798
SU4-41-009	Uranium-235	3.20	0.990	0.990	02/16/2006	U	UJ	1464172.480	597901.798
SU4-41-009	Uranium-238	2.20	2.200	2.200	02/16/2006	U	U	1464172.480	597901.798
SU4-41-010	Actinium-227	4.60	0.540	0.540	02/16/2006	U	U	1464187.480	597901.798
SU4-41-010	Actinium-228	1.93	1.100	0.470	02/16/2006			1464187.480	597901.798
SU4-41-010	Americium-241	63.00	0.210	0.210	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Bismuth-207	1.20	0.100	0.100	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Bismuth-210M	8.30	0.110	0.110	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Bismuth-214	1.17	0.710	0.240	02/16/2006			1464187.480	597901.798
SU4-41-010	Cesium-137	3.80	0.130	0.130	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Cobalt-60	0.70	0.160	0.160	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Lead-210	7.40	2.600	2.600	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Lead-212	16.60	1.340	0.190	02/16/2006			1464187.480	597901.798
SU4-41-010	Plutonium-238	55.00	0.090	0.090	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Plutonium-239/240	62.00	0.064	0.064	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Potassium-40	47.80	31.400	1.200	02/16/2006			1464187.480	597901.798
SU4-41-010	Protactinium-231	4.00	2.400	2.400	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Radium-226	2.90	0.710	0.240	02/16/2006		J	1464187.480	597901.798
SU4-41-010	Radium-228	2.10	1.100	0.470	02/16/2006			1464187.480	597901.798
SU4-41-010	Thorium-228	2.60	1.490	0.120	02/16/2006			1464187.480	597901.798
SU4-41-010	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Thorium-230	2.80	0.990	0.100	02/16/2006			1464187.480	597901.798
SU4-41-010	Thorium-232	2.10	1.740	0.070	02/16/2006			1464187.480	597901.798

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-010	Uranium-235	3.20	1.200	1.200	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-010	Uranium-238	2.20	1.900	1.900	02/16/2006	U	UJ	1464187.480	597901.798
SU4-41-011	Actinium-227	4.60	0.620	0.620	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Actinium-228	1.93	1.920	0.360	02/16/2006			1464149.980	597914.788
SU4-41-011	Americium-241	63.00	0.250	0.250	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Bismuth-207	1.20	0.130	0.130	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Bismuth-210M	8.30	0.140	0.140	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Bismuth-214	1.17	0.760	0.490	02/16/2006			1464149.980	597914.788
SU4-41-011	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Cobalt-60	0.70	0.140	0.140	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Lead-210	7.40	3.000	3.000	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Lead-212	16.60	1.300	0.220	02/16/2006			1464149.980	597914.788
SU4-41-011	Plutonium-238	55.00	0.092	0.092	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Plutonium-239/240	62.00	0.061	0.061	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Potassium-40	47.80	33.500	1.300	02/16/2006			1464149.980	597914.788
SU4-41-011	Protactinium-231	4.00	2.600	2.600	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Radium-226	2.90	0.760	0.490	02/16/2006		J	1464149.980	597914.788
SU4-41-011	Radium-228	2.10	1.920	0.360	02/16/2006			1464149.980	597914.788
SU4-41-011	Thorium-228	2.60	1.560	0.060	02/16/2006			1464149.980	597914.788
SU4-41-011	Thorium-229	18.90	1.400	1.400	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Thorium-230	2.80	1.120	0.050	02/16/2006			1464149.980	597914.788
SU4-41-011	Thorium-232	2.10	1.700	0.050	02/16/2006			1464149.980	597914.788
SU4-41-011	Uranium-235	3.20	1.200	1.200	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-011	Uranium-238	2.20	2.000	2.000	02/16/2006	U	UJ	1464149.980	597914.788
SU4-41-012	Actinium-227	4.60	0.880	0.590	02/16/2006			1464164.980	597914.788
SU4-41-012	Actinium-228	1.93	0.590	0.370	02/16/2006		J	1464164.980	597914.788
SU4-41-012	Americium-241	63.00	0.170	0.170	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Bismuth-207	1.20	0.082	0.082	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Bismuth-210M	8.30	0.100	0.100	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Bismuth-214	1.17	0.570	0.180	02/16/2006			1464164.980	597914.788
SU4-41-012	Cesium-137	3.80	0.100	0.100	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Cobalt-60	0.70	0.110	0.110	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Lead-210	7.40	2.300	2.300	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Lead-212	16.60	0.570	0.150	02/16/2006			1464164.980	597914.788
SU4-41-012	Plutonium-238	55.00	0.270	0.080	02/16/2006			1464164.980	597914.788
SU4-41-012	Plutonium-239/240	62.00	0.053	0.053	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Potassium-40	47.80	11.400	0.800	02/16/2006			1464164.980	597914.788
SU4-41-012	Protactinium-231	4.00	2.300	2.300	02/16/2006	U	U	1464164.980	597914.788
SU4-41-012	Radium-226	2.90	0.570	0.180	02/16/2006		J	1464164.980	597914.788
SU4-41-012	Radium-228	2.10	0.590	0.370	02/16/2006		J	1464164.980	597914.788
SU4-41-012	Thorium-228	2.60	0.620	0.070	02/16/2006			1464164.980	597914.788
SU4-41-012	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Thorium-230	2.80	0.890	0.040	02/16/2006			1464164.980	597914.788
SU4-41-012	Thorium-232	2.10	0.930	0.050	02/16/2006			1464164.980	597914.788
SU4-41-012	Uranium-235	3.20	0.900	0.900	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-012	Uranium-238	2.20	1.900	1.900	02/16/2006	U	UJ	1464164.980	597914.788
SU4-41-013	Actinium-227	4.60	0.380	0.380	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Actinium-228	1.93	0.250	0.250	02/16/2006	U	U	1464179.980	597914.788
SU4-41-013	Americium-241	63.00	0.130	0.130	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Bismuth-207	1.20	0.066	0.066	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Bismuth-210M	8.30	0.078	0.078	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Bismuth-214	1.17	0.680	0.370	02/16/2006			1464179.980	597914.788
SU4-41-013	Cesium-137	3.80	0.078	0.078	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Cobalt-60	0.70	0.120	0.120	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Lead-210	7.40	1.800	1.800	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Lead-212	16.60	0.407	0.100	02/16/2006			1464179.980	597914.788
SU4-41-013	Plutonium-238	55.00	0.090	0.090	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Plutonium-239/240	62.00	0.072	0.072	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Potassium-40	47.80	11.000	0.700	02/16/2006			1464179.980	597914.788
SU4-41-013	Protactinium-231	4.00	1.600	1.600	02/16/2006	U	UJ	1464179.980	597914.788

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-013	Radium-226	2.90	0.680	0.370	02/16/2006		J	1464179.980	597914.788
SU4-41-013	Radium-228	2.10	0.250	0.250	02/16/2006	U	U	1464179.980	597914.788
SU4-41-013	Thorium-228	2.60	0.570	0.060	02/16/2006			1464179.980	597914.788
SU4-41-013	Thorium-229	18.90	0.810	0.810	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Thorium-230	2.80	1.090	0.060	02/16/2006			1464179.980	597914.788
SU4-41-013	Thorium-232	2.10	0.570	0.060	02/16/2006			1464179.980	597914.788
SU4-41-013	Uranium-235	3.20	0.730	0.730	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-013	Uranium-238	2.20	1.400	1.400	02/16/2006	U	UJ	1464179.980	597914.788
SU4-41-014	Actinium-227	4.60	0.530	0.530	02/16/2006	U	U	1464172.480	597927.778
SU4-41-014	Actinium-228	1.93	0.620	0.620	02/16/2006	U	U	1464172.480	597927.778
SU4-41-014	Americium-241	63.00	0.200	0.200	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Bismuth-207	1.20	0.084	0.084	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Bismuth-210M	8.30	0.120	0.120	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Bismuth-214	1.17	0.600	0.420	02/16/2006			1464172.480	597927.778
SU4-41-014	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Cobalt-60	0.70	0.140	0.140	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Lead-210	7.40	2.500	2.500	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Lead-212	16.60	0.620	0.160	02/16/2006			1464172.480	597927.778
SU4-41-014	Plutonium-238	55.00	0.059	0.059	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Plutonium-239/240	62.00	0.043	0.043	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Potassium-40	47.80	20.700	1.000	02/16/2006			1464172.480	597927.778
SU4-41-014	Protactinium-231	4.00	2.100	2.100	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Radium-226	2.90	0.600	0.420	02/16/2006		J	1464172.480	597927.778
SU4-41-014	Radium-228	2.10	0.620	0.620	02/16/2006	U	U	1464172.480	597927.778
SU4-41-014	Thorium-228	2.60	0.900	0.160	02/16/2006			1464172.480	597927.778
SU4-41-014	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Thorium-230	2.80	0.890	0.100	02/16/2006			1464172.480	597927.778
SU4-41-014	Thorium-232	2.10	0.790	0.060	02/16/2006			1464172.480	597927.778
SU4-41-014	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-014	Uranium-238	2.20	2.100	2.100	02/16/2006	U	UJ	1464172.480	597927.778
SU4-41-015	Actinium-227	4.60	1.670	0.730	02/16/2006			1464187.480	597927.778
SU4-41-015	Actinium-228	1.93	0.720	0.300	02/16/2006		J	1464187.480	597927.778
SU4-41-015	Americium-241	63.00	0.210	0.210	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Bismuth-207	1.20	0.089	0.089	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Bismuth-210M	8.30	0.100	0.100	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Bismuth-214	1.17	0.630	0.350	02/16/2006			1464187.480	597927.778
SU4-41-015	Cesium-137	3.80	0.100	0.100	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Cobalt-60	0.70	0.110	0.110	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Lead-210	7.40	2.500	2.500	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Lead-212	16.60	0.850	0.160	02/16/2006			1464187.480	597927.778
SU4-41-015	Plutonium-238	55.00	0.159	0.069	02/16/2006		J	1464187.480	597927.778
SU4-41-015	Plutonium-239/240	62.00	0.230	0.030	02/16/2006			1464187.480	597927.778
SU4-41-015	Potassium-40	47.80	21.100	0.800	02/16/2006			1464187.480	597927.778
SU4-41-015	Protactinium-231	4.00	2.000	2.000	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Radium-226	2.90	0.630	0.350	02/16/2006		J	1464187.480	597927.778
SU4-41-015	Radium-228	2.10	0.720	0.300	02/16/2006		J	1464187.480	597927.778
SU4-41-015	Thorium-228	2.60	1.030	0.060	02/16/2006			1464187.480	597927.778
SU4-41-015	Thorium-229	18.90	1.200	1.200	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Thorium-230	2.80	0.960	0.070	02/16/2006			1464187.480	597927.778
SU4-41-015	Thorium-232	2.10	1.320	0.040	02/16/2006			1464187.480	597927.778
SU4-41-015	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-015	Uranium-238	2.20	2.100	2.100	02/16/2006	U	UJ	1464187.480	597927.778
SU4-41-016	Actinium-227	4.60	0.650	0.650	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	**Actinium-228****	**1.93**	**2.480**	**0.470**	**03/23/2006**			**1464169.438**	**597789.087**
SU4-41-016	Americium-241	63.00	0.240	0.240	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Bismuth-207	1.20	0.100	0.100	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Bismuth-210M	8.30	0.120	0.120	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Bismuth-214	1.17	0.820	0.390	03/23/2006			1464169.438	597789.087
SU4-41-016	Cesium-137	3.80	0.130	0.130	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464169.438	597789.087

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-016	Lead-210	7.40	2.800	2.800	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Lead-212	16.60	2.670	0.150	03/23/2006			1464169.438	597789.087
SU4-41-016	Plutonium-238	55.00	24.300	0.080	03/23/2006			1464169.438	597789.087
SU4-41-016	Plutonium-239/240	62.00	0.220	0.030	03/23/2006		J	1464169.438	597789.087
SU4-41-016	Potassium-40	47.80	30.100	1.000	03/23/2006			1464169.438	597789.087
SU4-41-016	Protactinium-231	4.00	2.800	2.800	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Radium-226	2.90	0.820	0.390	03/23/2006			1464169.438	597789.087
SU4-41-016	**Radium-228**	**2.10**	**2.480**	**0.470**	**03/23/2006**			**1464169.438**	**597789.087**
SU4-41-016	**Thorium-228****	**2.60**	**3.350**	**0.050**	**03/23/2006**			**1464169.438**	**597789.087**
SU4-41-016	Thorium-229	18.90	1.400	1.400	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Thorium-230	2.80	1.190	0.040	03/23/2006			1464169.438	597789.087
SU4-41-016	**Thorium-232**	**2.10**	**3.300**	**0.020**	**03/23/2006**			**1464169.438**	**597789.087**
SU4-41-016	Uranium-235	3.20	1.300	1.300	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-016	Uranium-238	2.20	2.400	2.400	03/23/2006	U	UJ	1464169.438	597789.087
SU4-41-017	Actinium-227	4.60	0.660	0.660	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Actinium-228	1.93	0.860	0.360	02/16/2006		J	1464161.938	597802.077
SU4-41-017	Americium-241	63.00	0.260	0.260	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Bismuth-207	1.20	0.092	0.092	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Bismuth-210M	8.30	0.140	0.140	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Bismuth-214	1.17	0.900	0.540	02/16/2006			1464161.938	597802.077
SU4-41-017	Cesium-137	3.80	0.130	0.130	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Cobalt-60	0.70	0.170	0.170	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Lead-210	7.40	3.300	3.300	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Lead-212	16.60	1.200	0.180	02/16/2006			1464161.938	597802.077
SU4-41-017	Plutonium-238	55.00	0.153	0.062	02/16/2006		J	1464161.938	597802.077
SU4-41-017	Plutonium-239/240	62.00	0.046	0.046	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Potassium-40	47.80	30.100	1.200	02/16/2006			1464161.938	597802.077
SU4-41-017	Protactinium-231	4.00	2.500	2.500	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Radium-226	2.90	0.900	0.540	02/16/2006		J	1464161.938	597802.077
SU4-41-017	Radium-228	2.10	0.860	0.360	02/16/2006		J	1464161.938	597802.077
SU4-41-017	Thorium-228	2.60	1.410	0.100	02/16/2006			1464161.938	597802.077
SU4-41-017	Thorium-229	18.90	1.300	1.300	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Thorium-230	2.80	1.210	0.050	02/16/2006			1464161.938	597802.077
SU4-41-017	Thorium-232	2.10	1.480	0.050	02/16/2006			1464161.938	597802.077
SU4-41-017	Uranium-235	3.20	1.400	1.400	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-017	Uranium-238	2.20	2.800	2.800	02/16/2006	U	UJ	1464161.938	597802.077
SU4-41-018	Actinium-227	4.60	0.450	0.450	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Actinium-228	1.93	1.550	0.360	03/22/2006			1464176.938	597802.077
SU4-41-018	Americium-241	63.00	0.190	0.190	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Bismuth-207	1.20	0.098	0.098	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Bismuth-210M	8.30	0.100	0.100	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Bismuth-214	1.17	0.810	0.410	03/22/2006			1464176.938	597802.077
SU4-41-018	Cesium-137	3.80	0.110	0.110	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Cobalt-60	0.70	0.150	0.150	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Lead-210	7.40	2.400	2.400	03/22/2006	U	U	1464176.938	597802.077
SU4-41-018	Lead-212	16.60	1.420	0.120	03/22/2006			1464176.938	597802.077
SU4-41-018	Plutonium-238	55.00	0.109	0.055	03/22/2006	J	J	1464176.938	597802.077
SU4-41-018	Plutonium-239/240	62.00	0.036	0.036	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Potassium-40	47.80	36.700	0.800	03/22/2006			1464176.938	597802.077
SU4-41-018	Protactinium-231	4.00	2.000	2.000	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Radium-226	2.90	0.810	0.410	03/22/2006			1464176.938	597802.077
SU4-41-018	Radium-228	2.10	1.550	0.360	03/22/2006			1464176.938	597802.077
SU4-41-018	Thorium-228	2.60	1.320	0.050	03/22/2006			1464176.938	597802.077
SU4-41-018	Thorium-229	18.90	1.000	1.000	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Thorium-230	2.80	0.980	0.030	03/22/2006			1464176.938	597802.077
SU4-41-018	Thorium-232	2.10	1.370	0.040	03/22/2006			1464176.938	597802.077
SU4-41-018	Uranium-235	3.20	0.990	0.990	03/22/2006	U	UJ	1464176.938	597802.077
SU4-41-018	Uranium-238	2.20	2.000	2.000	03/22/2006	U	U	1464176.938	597802.077
SU4-41-019	Actinium-227	4.60	0.430	0.430	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Actinium-228	1.93	0.910	0.390	02/16/2006			1464169.438	597815.068

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-019	Americium-241	63.00	0.170	0.170	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Bismuth-207	1.20	0.091	0.091	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Bismuth-210M	8.30	0.130	0.130	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Bismuth-214	1.17	0.400	0.360	02/16/2006		J	1464169.438	597815.068
SU4-41-019	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Cobalt-60	0.70	0.130	0.130	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Lead-210	7.40	2.200	2.200	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Lead-212	16.60	0.980	0.170	02/16/2006			1464169.438	597815.068
SU4-41-019	Plutonium-238	55.00	0.063	0.063	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Plutonium-239/240	62.00	0.059	0.059	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Potassium-40	47.80	26.200	0.900	02/16/2006			1464169.438	597815.068
SU4-41-019	Protactinium-231	4.00	2.000	2.000	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Radium-226	2.90	0.400	0.360	02/16/2006		J	1464169.438	597815.068
SU4-41-019	Radium-228	2.10	0.910	0.390	02/16/2006			1464169.438	597815.068
SU4-41-019	Thorium-228	2.60	1.070	0.050	02/16/2006			1464169.438	597815.068
SU4-41-019	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Thorium-230	2.80	0.970	0.040	02/16/2006			1464169.438	597815.068
SU4-41-019	Thorium-232	2.10	1.140	0.030	02/16/2006			1464169.438	597815.068
SU4-41-019	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-019	Uranium-238	2.20	1.800	1.800	02/16/2006	U	UJ	1464169.438	597815.068
SU4-41-020	Actinium-227	4.60	0.290	0.290	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Actinium-228	1.93	0.530	0.530	02/16/2006	U	U	1464240.346	597893.838
SU4-41-020	Americium-241	63.00	0.140	0.140	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Bismuth-207	1.20	0.067	0.067	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Bismuth-210M	8.30	0.097	0.097	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Bismuth-214	1.17	0.380	0.330	02/16/2006			1464240.346	597893.838
SU4-41-020	Cesium-137	3.80	0.082	0.082	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Cobalt-60	0.70	0.078	0.078	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Lead-210	7.40	1.800	1.800	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Lead-212	16.60	0.320	0.130	02/16/2006			1464240.346	597893.838
SU4-41-020	Plutonium-238	55.00	0.200	0.058	02/16/2006			1464240.346	597893.838
SU4-41-020	Plutonium-239/240	62.00	0.046	0.046	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Potassium-40	47.80	10.800	0.200	02/16/2006			1464240.346	597893.838
SU4-41-020	Protactinium-231	4.00	1.300	1.300	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Radium-226	2.90	0.380	0.330	02/16/2006		J	1464240.346	597893.838
SU4-41-020	Radium-228	2.10	0.530	0.530	02/16/2006	U	U	1464240.346	597893.838
SU4-41-020	Thorium-228	2.60	0.540	0.070	02/16/2006			1464240.346	597893.838
SU4-41-020	Thorium-229	18.90	0.860	0.860	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Thorium-230	2.80	0.750	0.060	02/16/2006			1464240.346	597893.838
SU4-41-020	Thorium-232	2.10	0.520	0.070	02/16/2006			1464240.346	597893.838
SU4-41-020	Uranium-235	3.20	0.810	0.810	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-020	Uranium-238	2.20	1.500	1.500	02/16/2006	U	UJ	1464240.346	597893.838
SU4-41-021	Actinium-227	4.60	0.430	0.430	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Actinium-228	1.93	1.480	0.370	02/16/2006			1464125.114	597833.190
SU4-41-021	Americium-241	63.00	0.170	0.170	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Bismuth-207	1.20	0.076	0.076	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Bismuth-210M	8.30	0.097	0.097	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Bismuth-214	1.17	0.670	0.350	02/16/2006			1464125.114	597833.190
SU4-41-021	Cesium-137	3.80	0.110	0.110	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Cobalt-60	0.70	0.110	0.110	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Lead-210	7.40	1.900	1.900	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Lead-212	16.60	1.560	0.180	02/16/2006			1464125.114	597833.190
SU4-41-021	Plutonium-238	55.00	0.071	0.071	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Plutonium-239/240	62.00	0.058	0.058	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Potassium-40	47.80	17.400	0.700	02/16/2006			1464125.114	597833.190
SU4-41-021	Protactinium-231	4.00	1.800	1.800	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Radium-226	2.90	0.670	0.350	02/16/2006		J	1464125.114	597833.190
SU4-41-021	Radium-228	2.10	1.480	0.370	02/16/2006			1464125.114	597833.190
SU4-41-021	Thorium-228	2.60	1.250	0.080	02/16/2006		J	1464125.114	597833.190
SU4-41-021	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464125.114	597833.190

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-021	Thorium-230	2.80	1.040	0.040	02/16/2006			1464125.114	597833.190
SU4-41-021	Thorium-232	2.10	1.960	0.050	02/16/2006		J	1464125.114	597833.190
SU4-41-021	Uranium-235	3.20	0.990	0.990	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-021	Uranium-238	2.20	1.700	1.700	02/16/2006	U	UJ	1464125.114	597833.190
SU4-41-022	Actinium-227	4.60	0.320	0.320	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Actinium-228	1.93	0.390	0.390	02/16/2006	U	U	1464117.614	597846.180
SU4-41-022	Americium-241	63.00	0.130	0.130	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Bismuth-207	1.20	0.046	0.046	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Bismuth-210M	8.30	0.073	0.073	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Bismuth-214	1.17	0.360	0.290	02/16/2006			1464117.614	597846.180
SU4-41-022	Cesium-137	3.80	0.073	0.073	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Cobalt-60	0.70	0.099	0.099	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Lead-210	7.40	1.800	1.800	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Lead-212	16.60	0.251	0.140	02/16/2006			1464117.614	597846.180
SU4-41-022	Plutonium-238	55.00	0.187	0.058	02/16/2006			1464117.614	597846.180
SU4-41-022	Plutonium-239/240	62.00	0.038	0.038	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Potassium-40	47.80	5.600	0.900	02/16/2006			1464117.614	597846.180
SU4-41-022	Protactinium-231	4.00	1.500	1.500	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Radium-226	2.90	0.360	0.290	02/16/2006		J	1464117.614	597846.180
SU4-41-022	Radium-228	2.10	0.390	0.390	02/16/2006	U	U	1464117.614	597846.180
SU4-41-022	Thorium-228	2.60	0.320	0.080	02/16/2006		J	1464117.614	597846.180
SU4-41-022	Thorium-229	18.90	0.760	0.760	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Thorium-230	2.80	0.730	0.040	02/16/2006			1464117.614	597846.180
SU4-41-022	Thorium-232	2.10	0.360	0.040	02/16/2006		J	1464117.614	597846.180
SU4-41-022	Uranium-235	3.20	0.740	0.740	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-022	Uranium-238	2.20	1.300	1.300	02/16/2006	U	UJ	1464117.614	597846.180
SU4-41-023	Actinium-227	4.60	0.510	0.510	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Actinium-228	1.93	0.740	0.740	02/16/2006	U	U	1464132.614	597846.180
SU4-41-023	Americium-241	63.00	0.210	0.210	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Bismuth-207	1.20	0.090	0.090	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Bismuth-210M	8.30	0.120	0.120	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Bismuth-214	1.17	0.610	0.420	02/16/2006			1464132.614	597846.180
SU4-41-023	Cesium-137	3.80	0.130	0.130	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Cobalt-60	0.70	0.140	0.140	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Lead-210	7.40	2.500	2.500	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Lead-212	16.60	1.000	0.130	02/16/2006			1464132.614	597846.180
SU4-41-023	Plutonium-238	55.00	0.062	0.062	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Plutonium-239/240	62.00	0.049	0.049	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Potassium-40	47.80	28.000	1.000	02/16/2006			1464132.614	597846.180
SU4-41-023	Protactinium-231	4.00	2.000	2.000	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Radium-226	2.90	0.610	0.420	02/16/2006		J	1464132.614	597846.180
SU4-41-023	Radium-228	2.10	0.740	0.740	02/16/2006	U	U	1464132.614	597846.180
SU4-41-023	Thorium-228	2.60	1.120	0.070	02/16/2006		J	1464132.614	597846.180
SU4-41-023	Thorium-229	18.90	1.200	1.200	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Thorium-230	2.80	0.810	0.050	02/16/2006			1464132.614	597846.180
SU4-41-023	Thorium-232	2.10	1.080	0.050	02/16/2006		J	1464132.614	597846.180
SU4-41-023	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023	Uranium-238	2.20	2.100	2.100	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Actinium-227	4.60	1.480	0.820	02/16/2006			1464132.614	597846.180
SU4-41-023D	Actinium-228	1.93	0.780	0.450	02/16/2006		J	1464132.614	597846.180
SU4-41-023D	Americium-241	63.00	0.240	0.240	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Bismuth-207	1.20	0.092	0.092	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Bismuth-210M	8.30	0.130	0.130	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Bismuth-214	1.17	0.680	0.400	02/16/2006			1464132.614	597846.180
SU4-41-023D	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Cobalt-60	0.70	0.140	0.140	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Lead-210	7.40	2.900	2.900	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Lead-212	16.60	1.060	0.220	02/16/2006			1464132.614	597846.180
SU4-41-023D	Plutonium-238	55.00	0.049	0.049	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Plutonium-239/240	62.00	0.042	0.042	02/16/2006	U	UJ	1464132.614	597846.180

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-023D	Potassium-40	47.80	28.800	1.000	02/16/2006			1464132.614	597846.180
SU4-41-023D	Protactinium-231	4.00	2.400	2.400	02/16/2006	U	U	1464132.614	597846.180
SU4-41-023D	Radium-226	2.90	0.680	0.400	02/16/2006		J	1464132.614	597846.180
SU4-41-023D	Radium-228	2.10	0.780	0.450	02/16/2006		J	1464132.614	597846.180
SU4-41-023D	Thorium-228	2.60	1.000	0.090	02/16/2006		J	1464132.614	597846.180
SU4-41-023D	Thorium-229	18.90	1.200	1.200	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Thorium-230	2.80	0.680	0.060	02/16/2006			1464132.614	597846.180
SU4-41-023D	Thorium-232	2.10	0.950	0.060	02/16/2006		J	1464132.614	597846.180
SU4-41-023D	Uranium-235	3.20	1.200	1.200	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-023D	Uranium-238	2.20	2.400	2.400	02/16/2006	U	UJ	1464132.614	597846.180
SU4-41-024	Actinium-227	4.60	0.510	0.510	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Actinium-228	1.93	1.570	0.420	02/16/2006			1464153.070	597811.828
SU4-41-024	Americium-241	63.00	0.230	0.230	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Bismuth-207	1.20	0.081	0.081	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Bismuth-210M	8.30	0.130	0.130	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Bismuth-214	1.17	0.740	0.200	02/16/2006			1464153.070	597811.828
SU4-41-024	Cesium-137	3.80	0.130	0.130	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Cobalt-60	0.70	0.130	0.130	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Lead-210	7.40	2.800	2.800	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Lead-212	16.60	1.330	0.170	02/16/2006			1464153.070	597811.828
SU4-41-024	Plutonium-238	55.00	0.320	0.040	02/16/2006			1464153.070	597811.828
SU4-41-024	Plutonium-239/240	62.00	0.046	0.046	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Potassium-40	47.80	23.500	0.900	02/16/2006			1464153.070	597811.828
SU4-41-024	Protactinium-231	4.00	2.000	2.000	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Radium-226	2.90	0.740	0.200	02/16/2006		J	1464153.070	597811.828
SU4-41-024	Radium-228	2.10	1.570	0.420	02/16/2006			1464153.070	597811.828
SU4-41-024	Thorium-228	2.60	1.430	0.070	02/16/2006		J	1464153.070	597811.828
SU4-41-024	Thorium-229	18.90	1.300	1.300	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Thorium-230	2.80	0.840	0.060	02/16/2006			1464153.070	597811.828
SU4-41-024	Thorium-232	2.10	1.360	0.070	02/16/2006		J	1464153.070	597811.828
SU4-41-024	Uranium-235	3.20	1.300	1.300	02/16/2006	U	UJ	1464153.070	597811.828
SU4-41-024	Uranium-238	2.20	2.500	2.500	02/16/2006	U	U	1464153.070	597811.828
SU4-41-025	Actinium-227	4.60	0.660	0.560	02/16/2006		J	1464160.570	597824.818
SU4-41-025	Actinium-228	1.93	0.480	0.300	02/16/2006		J	1464160.570	597824.818
SU4-41-025	Americium-241	63.00	0.170	0.170	02/16/2006	U	U	1464160.570	597824.818
SU4-41-025	Bismuth-207	1.20	0.067	0.067	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Bismuth-210M	8.30	0.089	0.089	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Bismuth-214	1.17	0.400	0.290	02/16/2006			1464160.570	597824.818
SU4-41-025	Cesium-137	3.80	0.091	0.091	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Cobalt-60	0.70	0.085	0.085	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Lead-210	7.40	2.300	2.300	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Lead-212	16.60	0.550	0.120	02/16/2006			1464160.570	597824.818
SU4-41-025	Plutonium-238	55.00	0.079	0.038	02/16/2006	J	J	1464160.570	597824.818
SU4-41-025	Plutonium-239/240	62.00	0.044	0.044	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Potassium-40	47.80	13.200	1.000	02/16/2006			1464160.570	597824.818
SU4-41-025	Protactinium-231	4.00	1.700	1.700	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Radium-226	2.90	0.400	0.290	02/16/2006		J	1464160.570	597824.818
SU4-41-025	Radium-228	2.10	0.480	0.300	02/16/2006		J	1464160.570	597824.818
SU4-41-025	Thorium-228	2.60	0.600	0.100	02/16/2006		J	1464160.570	597824.818
SU4-41-025	Thorium-229	18.90	0.960	0.960	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Thorium-230	2.80	0.570	0.070	02/16/2006			1464160.570	597824.818
SU4-41-025	Thorium-232	2.10	0.590	0.090	02/16/2006		J	1464160.570	597824.818
SU4-41-025	Uranium-235	3.20	0.890	0.890	02/16/2006	U	UJ	1464160.570	597824.818
SU4-41-025	Uranium-238	2.20	1.800	1.800	02/16/2006	U	U	1464160.570	597824.818
SU4-41-026	Actinium-227	4.60	0.930	0.610	02/16/2006			1464175.570	597824.818
SU4-41-026	Actinium-228	1.93	0.590	0.260	02/16/2006			1464175.570	597824.818
SU4-41-026	Americium-241	63.00	0.180	0.180	02/16/2006	U	U	1464175.570	597824.818
SU4-41-026	Bismuth-207	1.20	0.065	0.065	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Bismuth-210M	8.30	0.100	0.100	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Bismuth-214	1.17	0.510	0.180	02/16/2006			1464175.570	597824.818

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-026	Cesium-137	3.80	0.098	0.098	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Cobalt-60	0.70	0.098	0.098	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Lead-210	7.40	2.400	2.400	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Lead-212	16.60	0.560	0.130	02/16/2006			1464175.570	597824.818
SU4-41-026	Plutonium-238	55.00	0.128	0.066	02/16/2006		J	1464175.570	597824.818
SU4-41-026	Plutonium-239/240	62.00	0.030	0.030	02/16/2006	U	U	1464175.570	597824.818
SU4-41-026	Potassium-40	47.80	16.500	0.800	02/16/2006			1464175.570	597824.818
SU4-41-026	Protactinium-231	4.00	2.000	2.000	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Radium-226	2.90	0.510	0.180	02/16/2006		J	1464175.570	597824.818
SU4-41-026	Radium-228	2.10	0.590	0.260	02/16/2006			1464175.570	597824.818
SU4-41-026	Thorium-228	2.60	0.990	0.070	02/16/2006		J	1464175.570	597824.818
SU4-41-026	Thorium-229	18.90	1.000	1.000	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Thorium-230	2.80	0.890	0.050	02/16/2006			1464175.570	597824.818
SU4-41-026	Thorium-232	2.10	1.020	0.060	02/16/2006		J	1464175.570	597824.818
SU4-41-026	Uranium-235	3.20	0.890	0.890	02/16/2006	U	UJ	1464175.570	597824.818
SU4-41-026	Uranium-238	2.20	1.600	1.600	02/16/2006	U	U	1464175.570	597824.818
SU4-41-027	Actinium-227	4.60	0.300	0.300	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Actinium-228	1.93	0.300	0.300	02/16/2006	U	U	1464115.570	597850.799
SU4-41-027	Americium-241	63.00	0.120	0.120	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Bismuth-207	1.20	0.037	0.037	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Bismuth-210M	8.30	0.063	0.063	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Bismuth-214	1.17	0.410	0.230	02/16/2006			1464115.570	597850.799
SU4-41-027	Cesium-137	3.80	0.065	0.065	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Cobalt-60	0.70	0.070	0.070	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Lead-210	7.40	1.500	1.500	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Lead-212	16.60	0.189	0.070	02/16/2006			1464115.570	597850.799
SU4-41-027	Plutonium-238	55.00	0.071	0.071	02/16/2006	U	U	1464115.570	597850.799
SU4-41-027	Plutonium-239/240	62.00	0.040	0.040	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Potassium-40	47.80	5.500	0.600	02/16/2006			1464115.570	597850.799
SU4-41-027	Protactinium-231	4.00	1.300	1.300	02/16/2006	U	U	1464115.570	597850.799
SU4-41-027	Radium-226	2.90	0.410	0.230	02/16/2006		J	1464115.570	597850.799
SU4-41-027	Radium-228	2.10	0.300	0.300	02/16/2006	U	U	1464115.570	597850.799
SU4-41-027	Thorium-228	2.60	0.270	0.100	02/16/2006		J	1464115.570	597850.799
SU4-41-027	Thorium-229	18.90	0.650	0.650	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-027	Thorium-230	2.80	0.730	0.040	02/16/2006			1464115.570	597850.799
SU4-41-027	Thorium-232	2.10	0.300	0.060	02/16/2006		J	1464115.570	597850.799
SU4-41-027	Uranium-235	3.20	0.690	0.690	02/16/2006	U	U	1464115.570	597850.799
SU4-41-027	Uranium-238	2.20	1.300	1.300	02/16/2006	U	UJ	1464115.570	597850.799
SU4-41-028	Actinium-227	4.60	0.250	0.250	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Actinium-228	1.93	0.380	0.380	02/16/2006	U	U	1464130.570	597850.799
SU4-41-028	Americium-241	63.00	0.130	0.130	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Bismuth-207	1.20	0.058	0.058	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Bismuth-210M	8.30	0.055	0.055	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Bismuth-214	1.17	0.350	0.270	02/16/2006			1464130.570	597850.799
SU4-41-028	Cesium-137	3.80	0.076	0.076	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Cobalt-60	0.70	0.055	0.055	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Lead-210	7.40	1.800	1.800	02/16/2006	U	U	1464130.570	597850.799
SU4-41-028	Lead-212	16.60	0.283	0.067	02/16/2006			1464130.570	597850.799
SU4-41-028	Plutonium-238	55.00	0.231	0.040	02/16/2006			1464130.570	597850.799
SU4-41-028	Plutonium-239/240	62.00	0.040	0.040	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Potassium-40	47.80	5.400	0.600	02/16/2006			1464130.570	597850.799
SU4-41-028	Protactinium-231	4.00	1.500	1.500	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Radium-226	2.90	0.350	0.270	02/16/2006		J	1464130.570	597850.799
SU4-41-028	Radium-228	2.10	0.380	0.380	02/16/2006	U	U	1464130.570	597850.799
SU4-41-028	Thorium-228	2.60	0.400	0.090	02/16/2006		J	1464130.570	597850.799
SU4-41-028	Thorium-229	18.90	0.700	0.700	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Thorium-230	2.80	0.420	0.050	02/16/2006		J	1464130.570	597850.799
SU4-41-028	Thorium-232	2.10	0.330	0.050	02/16/2006		J	1464130.570	597850.799
SU4-41-028	Uranium-235	3.20	0.620	0.620	02/16/2006	U	UJ	1464130.570	597850.799
SU4-41-028	Uranium-238	2.20	1.300	1.300	02/16/2006	U	UJ	1464130.570	597850.799

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-029	Actinium-227	4.60	0.410	0.410	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Actinium-228	1.93	0.800	0.380	02/16/2006		J	1464130.570	597902.761
SU4-41-029	Americium-241	63.00	0.160	0.160	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Bismuth-207	1.20	0.081	0.081	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Bismuth-210M	8.30	0.073	0.073	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Bismuth-214	1.17	0.580	0.370	02/16/2006			1464130.570	597902.761
SU4-41-029	Cesium-137	3.80	0.100	0.100	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Cobalt-60	0.70	0.098	0.098	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Lead-210	7.40	1.800	1.800	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Lead-212	16.60	0.710	0.150	02/16/2006			1464130.570	597902.761
SU4-41-029	Plutonium-238	55.00	0.072	0.072	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Plutonium-239/240	62.00	0.043	0.043	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Potassium-40	47.80	21.100	0.700	02/16/2006			1464130.570	597902.761
SU4-41-029	Protactinium-231	4.00	1.700	1.700	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Radium-226	2.90	0.580	0.370	02/16/2006		J	1464130.570	597902.761
SU4-41-029	Radium-228	2.10	0.800	0.380	02/16/2006		J	1464130.570	597902.761
SU4-41-029	Thorium-228	2.60	1.170	0.030	02/16/2006		J	1464130.570	597902.761
SU4-41-029	Thorium-229	18.90	0.840	0.840	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Thorium-230	2.80	1.060	0.050	02/16/2006			1464130.570	597902.761
SU4-41-029	Thorium-232	2.10	0.910	0.050	02/16/2006		J	1464130.570	597902.761
SU4-41-029	Uranium-235	3.20	0.880	0.880	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-029	Uranium-238	2.20	1.600	1.600	02/16/2006	U	UJ	1464130.570	597902.761
SU4-41-030	Actinium-227	4.60	0.530	0.530	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Actinium-228	1.93	1.270	0.330	02/16/2006			1464138.070	597915.751
SU4-41-030	Americium-241	63.00	0.190	0.190	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Bismuth-207	1.20	0.089	0.089	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Bismuth-210M	8.30	0.110	0.110	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Bismuth-214	1.17	0.470	0.390	02/16/2006			1464138.070	597915.751
SU4-41-030	Cesium-137	3.80	0.110	0.110	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Cobalt-60	0.70	0.110	0.110	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Lead-210	7.40	2.400	2.400	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Lead-212	16.60	0.710	0.180	02/16/2006			1464138.070	597915.751
SU4-41-030	Plutonium-238	55.00	0.084	0.059	02/16/2006	J	J	1464138.070	597915.751
SU4-41-030	Plutonium-239/240	62.00	0.044	0.044	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Potassium-40	47.80	22.900	1.100	02/16/2006			1464138.070	597915.751
SU4-41-030	Protactinium-231	4.00	2.200	2.200	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Radium-226	2.90	0.470	0.390	02/16/2006		J	1464138.070	597915.751
SU4-41-030	Radium-228	2.10	1.270	0.330	02/16/2006			1464138.070	597915.751
SU4-41-030	Thorium-228	2.60	1.150	0.070	02/16/2006		J	1464138.070	597915.751
SU4-41-030	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Thorium-230	2.80	0.910	0.030	02/16/2006			1464138.070	597915.751
SU4-41-030	Thorium-232	2.10	1.370	0.040	02/16/2006		J	1464138.070	597915.751
SU4-41-030	Uranium-235	3.20	1.000	1.000	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-030	Uranium-238	2.20	2.200	2.200	02/16/2006	U	UJ	1464138.070	597915.751
SU4-41-031	Actinium-227	4.60	1.060	0.690	02/16/2006			1464145.570	597928.741
SU4-41-031	Actinium-228	1.93	0.430	0.400	02/16/2006		J	1464145.570	597928.741
SU4-41-031	Americium-241	63.00	0.210	0.210	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Bismuth-207	1.20	0.066	0.066	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Bismuth-210M	8.30	0.120	0.120	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Bismuth-214	1.17	0.560	0.370	02/16/2006			1464145.570	597928.741
SU4-41-031	Cesium-137	3.80	0.120	0.120	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Cobalt-60	0.70	0.110	0.110	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Lead-210	7.40	2.400	2.400	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Lead-212	16.60	0.570	0.150	02/16/2006			1464145.570	597928.741
SU4-41-031	Plutonium-238	55.00	0.179	0.047	02/16/2006			1464145.570	597928.741
SU4-41-031	Plutonium-239/240	62.00	0.030	0.030	02/16/2006	U	U	1464145.570	597928.741
SU4-41-031	Potassium-40	47.80	20.800	0.700	02/16/2006			1464145.570	597928.741
SU4-41-031	Protactinium-231	4.00	2.200	2.200	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Radium-226	2.90	0.560	0.370	02/16/2006		J	1464145.570	597928.741
SU4-41-031	Radium-228	2.10	0.430	0.400	02/16/2006		J	1464145.570	597928.741

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU4-41-031	Thorium-228	2.60	1.070	0.100	02/16/2006		J	1464145.570	597928.741
SU4-41-031	Thorium-229	18.90	1.100	1.100	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Thorium-230	2.80	0.750	0.080	02/16/2006			1464145.570	597928.741
SU4-41-031	Thorium-232	2.10	1.020	0.040	02/16/2006		J	1464145.570	597928.741
SU4-41-031	Uranium-235	3.20	1.100	1.100	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-031	Uranium-238	2.20	2.000	2.000	02/16/2006	U	UJ	1464145.570	597928.741
SU4-41-032	Actinium-227	4.60	0.290	0.290	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Actinium-228	1.93	0.640	0.540	02/16/2006			1464160.570	597928.741
SU4-41-032	Americium-241	63.00	0.140	0.140	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Bismuth-207	1.20	0.074	0.074	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Bismuth-210M	8.30	0.088	0.088	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Bismuth-214	1.17	0.380	0.300	02/16/2006			1464160.570	597928.741
SU4-41-032	Cesium-137	3.80	0.100	0.100	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Cobalt-60	0.70	0.087	0.087	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Lead-210	7.40	1.700	1.700	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Lead-212	16.60	0.500	0.090	02/16/2006			1464160.570	597928.741
SU4-41-032	Plutonium-238	55.00	0.047	0.047	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Plutonium-239/240	62.00	0.041	0.041	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Potassium-40	47.80	19.600	0.600	02/16/2006			1464160.570	597928.741
SU4-41-032	Protactinium-231	4.00	1.600	1.600	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Radium-226	2.90	0.380	0.300	02/16/2006		J	1464160.570	597928.741
SU4-41-032	Radium-228	2.10	0.640	0.540	02/16/2006			1464160.570	597928.741
SU4-41-032	Thorium-228	2.60	0.820	0.100	02/16/2006		J	1464160.570	597928.741
SU4-41-032	Thorium-229	18.90	0.900	0.900	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Thorium-230	2.80	0.810	0.060	02/16/2006			1464160.570	597928.741
SU4-41-032	Thorium-232	2.10	0.850	0.060	02/16/2006		J	1464160.570	597928.741
SU4-41-032	Uranium-235	3.20	0.810	0.810	02/16/2006	U	UJ	1464160.570	597928.741
SU4-41-032	Uranium-238	2.20	1.400	1.400	02/16/2006	U	U	1464160.570	597928.741
SU4-41-033	Actinium-227	4.60	0.380	0.380	02/16/2006	U	U	1464168.070	597941.732
SU4-41-033	Actinium-228	1.93	0.710	0.570	02/16/2006			1464168.070	597941.732
SU4-41-033	Americium-241	63.00	0.170	0.170	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Bismuth-207	1.20	0.074	0.074	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Bismuth-210M	8.30	0.082	0.082	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Bismuth-214	1.17	0.440	0.310	02/16/2006			1464168.070	597941.732
SU4-41-033	Cesium-137	3.80	0.083	0.083	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Cobalt-60	0.70	0.120	0.120	02/16/2006	U	U	1464168.070	597941.732
SU4-41-033	Lead-210	7.40	1.900	1.900	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Lead-212	16.60	0.420	0.130	02/16/2006			1464168.070	597941.732
SU4-41-033	Plutonium-238	55.00	0.058	0.058	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Plutonium-239/240	62.00	0.040	0.040	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Potassium-40	47.80	14.400	0.600	02/16/2006			1464168.070	597941.732
SU4-41-033	Protactinium-231	4.00	2.100	2.100	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Radium-226	2.90	0.440	0.310	02/16/2006		J	1464168.070	597941.732
SU4-41-033	Radium-228	2.10	0.710	0.570	02/16/2006			1464168.070	597941.732
SU4-41-033	Thorium-228	2.60	0.580	0.080	02/16/2006		J	1464168.070	597941.732
SU4-41-033	Thorium-229	18.90	0.960	0.960	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Thorium-230	2.80	0.830	0.060	02/16/2006			1464168.070	597941.732
SU4-41-033	Thorium-232	2.10	0.530	0.030	02/16/2006		J	1464168.070	597941.732
SU4-41-033	Uranium-235	3.20	0.910	0.910	02/16/2006	U	UJ	1464168.070	597941.732
SU4-41-033	Uranium-238	2.20	1.600	1.600	02/16/2006	U	UJ	1464168.070	597941.732
SU5-41D-001	Actinium-227	4.60	0.360	0.360	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Actinium-228	1.93	0.490	0.140	03/23/2006		J	1464200.811	597769.003
SU5-41D-001	Americium-241	63.00	0.151	0.140	03/23/2006		J	1464200.811	597769.003
SU5-41D-001	Bismuth-207	1.20	0.057	0.057	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Bismuth-210M	8.30	0.077	0.077	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Bismuth-214	1.17	0.570	0.110	03/23/2006			1464200.811	597769.003
SU5-41D-001	Cesium-137	3.80	0.078	0.078	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Cobalt-60	0.70	0.068	0.068	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Lead-210	7.40	1.700	1.700	03/23/2006	U	U	1464200.811	597769.003
SU5-41D-001	Lead-212	16.60	0.442	0.099	03/23/2006			1464200.811	597769.003

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-001	Plutonium-238	55.00	19.000	0.060	03/23/2006			1464200.811	597769.003
SU5-41D-001	Plutonium-239/240	62.00	0.103	0.028	03/23/2006	J	J	1464200.811	597769.003
SU5-41D-001	Potassium-40	47.80	9.600	0.600	03/23/2006			1464200.811	597769.003
SU5-41D-001	Protactinium-231	4.00	1.700	1.700	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Radium-226	2.90	0.570	0.110	03/23/2006		J	1464200.811	597769.003
SU5-41D-001	Thorium-228	2.60	0.390	0.050	03/23/2006			1464200.811	597769.003
SU5-41D-001	Thorium-229	18.90	0.790	0.790	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Thorium-230	2.80	0.800	0.040	03/23/2006			1464200.811	597769.003
SU5-41D-001	Thorium-232	2.10	0.680	0.030	03/23/2006			1464200.811	597769.003
SU5-41D-001	Uranium-235	3.20	0.690	0.690	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-001	Uranium-238	2.20	1.400	1.400	03/23/2006	U	UJ	1464200.811	597769.003
SU5-41D-002	Actinium-227	4.60	0.310	0.310	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Actinium-228	1.93	0.660	0.450	03/28/2006		J	1464215.811	597769.003
SU5-41D-002	Americium-241	63.00	0.130	0.130	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Bismuth-207	1.20	0.058	0.058	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Bismuth-210M	8.30	0.063	0.063	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Bismuth-214	1.17	0.760	0.090	03/28/2006			1464215.811	597769.003
SU5-41D-002	Cesium-137	3.80	0.061	0.061	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Cobalt-60	0.70	0.083	0.083	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Lead-210	7.40	1.700	1.700	03/28/2006	U	U	1464215.811	597769.003
SU5-41D-002	Lead-212	16.60	0.400	0.110	03/28/2006			1464215.811	597769.003
SU5-41D-002	Plutonium-238	55.00	19.800	0.070	03/28/2006			1464215.811	597769.003
SU5-41D-002	Plutonium-239/240	62.00	0.141	0.025	03/28/2006	J	J	1464215.811	597769.003
SU5-41D-002	Potassium-40	47.80	10.700	0.600	03/28/2006			1464215.811	597769.003
SU5-41D-002	Protactinium-231	4.00	1.300	1.300	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Radium-226	2.90	0.760	0.090	03/28/2006		J	1464215.811	597769.003
SU5-41D-002	Thorium-228	2.60	0.630	0.060	03/28/2006			1464215.811	597769.003
SU5-41D-002	Thorium-229	18.90	0.740	0.740	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-002	Thorium-230	2.80	1.060	0.040	03/28/2006			1464215.811	597769.003
SU5-41D-002	Thorium-232	2.10	0.530	0.050	03/28/2006			1464215.811	597769.003
SU5-41D-002	Uranium-235	3.20	0.760	0.760	03/28/2006	U	U	1464215.811	597769.003
SU5-41D-002	Uranium-238	2.20	1.200	1.200	03/28/2006	U	UJ	1464215.811	597769.003
SU5-41D-003	Actinium-227	4.60	0.350	0.350	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Actinium-228	1.93	0.430	0.430	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Bismuth-207	1.20	0.067	0.067	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Bismuth-210M	8.30	0.084	0.084	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Bismuth-214	1.17	0.580	0.320	03/23/2006			1464230.811	597769.003
SU5-41D-003	Cesium-137	3.80	0.098	0.098	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Cobalt-60	0.70	0.066	0.066	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Lead-212	16.60	0.418	0.100	03/23/2006			1464230.811	597769.003
SU5-41D-003	Plutonium-238	55.00	9.600	0.090	03/23/2006			1464230.811	597769.003
SU5-41D-003	Plutonium-239/240	62.00	0.164	0.030	03/23/2006	J	J	1464230.811	597769.003
SU5-41D-003	Potassium-40	47.80	8.600	0.500	03/23/2006			1464230.811	597769.003
SU5-41D-003	Protactinium-231	4.00	1.400	1.400	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Radium-226	2.90	0.580	0.320	03/23/2006		J	1464230.811	597769.003
SU5-41D-003	Thorium-228	2.60	0.510	0.050	03/23/2006			1464230.811	597769.003
SU5-41D-003	Thorium-229	18.90	0.760	0.760	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Thorium-230	2.80	0.860	0.050	03/23/2006			1464230.811	597769.003
SU5-41D-003	Thorium-232	2.10	0.590	0.030	03/23/2006			1464230.811	597769.003
SU5-41D-003	Uranium-235	3.20	0.860	0.860	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-003	Uranium-238	2.20	1.500	1.500	03/23/2006	U	UJ	1464230.811	597769.003
SU5-41D-004	Actinium-227	4.60	0.620	0.540	03/23/2006		J	1464245.811	597769.003
SU5-41D-004	Actinium-228	1.93	0.750	0.270	03/23/2006		J	1464245.811	597769.003
SU5-41D-004	Americium-241	63.00	0.170	0.170	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Bismuth-207	1.20	0.069	0.069	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Bismuth-210M	8.30	0.093	0.093	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Bismuth-214	1.17	0.710	0.160	03/23/2006			1464245.811	597769.003
SU5-41D-004	Cesium-137	3.80	0.098	0.098	03/23/2006	U	UJ	1464245.811	597769.003

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-004	Cobalt-60	0.70	0.091	0.091	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Lead-210	7.40	2.100	2.100	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Lead-212	16.60	0.650	0.120	03/23/2006			1464245.811	597769.003
SU5-41D-004	Plutonium-238	55.00	14.900	0.050	03/23/2006			1464245.811	597769.003
SU5-41D-004	Plutonium-239/240	62.00	0.270	0.040	03/23/2006		J	1464245.811	597769.003
SU5-41D-004	Potassium-40	47.80	11.000	0.700	03/23/2006			1464245.811	597769.003
SU5-41D-004	Protactinium-231	4.00	1.700	1.700	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Radium-226	2.90	0.710	0.160	03/23/2006		J	1464245.811	597769.003
SU5-41D-004	Thorium-228	2.60	0.620	0.060	03/23/2006			1464245.811	597769.003
SU5-41D-004	Thorium-229	18.90	0.890	0.890	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Thorium-230	2.80	0.980	0.030	03/23/2006			1464245.811	597769.003
SU5-41D-004	Thorium-232	2.10	0.700	0.060	03/23/2006			1464245.811	597769.003
SU5-41D-004	Uranium-235	3.20	0.850	0.850	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-004	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464245.811	597769.003
SU5-41D-005	Actinium-227	4.60	0.380	0.380	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Actinium-228	1.93	0.530	0.480	03/23/2006		J	1464260.811	597769.003
SU5-41D-005	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Bismuth-207	1.20	0.068	0.068	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Bismuth-210M	8.30	0.079	0.079	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Bismuth-214	1.17	0.670	0.320	03/23/2006			1464260.811	597769.003
SU5-41D-005	Cesium-137	3.80	0.076	0.076	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Cobalt-60	0.70	0.048	0.048	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Lead-210	7.40	1.700	1.700	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Lead-212	16.60	0.440	0.130	03/23/2006			1464260.811	597769.003
SU5-41D-005	Plutonium-238	55.00	3.910	0.070	03/23/2006			1464260.811	597769.003
SU5-41D-005	Plutonium-239/240	62.00	0.041	0.041	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Potassium-40	47.80	11.900	0.600	03/23/2006			1464260.811	597769.003
SU5-41D-005	Protactinium-231	4.00	1.500	1.500	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Radium-226	2.90	0.670	0.320	03/23/2006		J	1464260.811	597769.003
SU5-41D-005	Thorium-228	2.60	0.560	0.070	03/23/2006			1464260.811	597769.003
SU5-41D-005	Thorium-229	18.90	0.860	0.860	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Thorium-230	2.80	1.170	0.060	03/23/2006			1464260.811	597769.003
SU5-41D-005	Thorium-232	2.10	0.710	0.050	03/23/2006			1464260.811	597769.003
SU5-41D-005	Uranium-235	3.20	0.820	0.820	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-005	Uranium-238	2.20	1.400	1.400	03/23/2006	U	UJ	1464260.811	597769.003
SU5-41D-006	Actinium-227	4.60	0.500	0.250	03/23/2006			1464208.311	597781.993
SU5-41D-006	Actinium-228	1.93	0.400	0.160	03/23/2006		J	1464208.311	597781.993
SU5-41D-006	Americium-241	63.00	0.130	0.130	03/23/2006	U	U	1464208.311	597781.993
SU5-41D-006	Bismuth-207	1.20	0.048	0.048	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Bismuth-210M	8.30	0.059	0.059	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Bismuth-214	1.17	0.480	0.240	03/23/2006			1464208.311	597781.993
SU5-41D-006	Cesium-137	3.80	0.080	0.080	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Cobalt-60	0.70	0.083	0.083	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Lead-210	7.40	1.400	1.400	03/23/2006	U	U	1464208.311	597781.993
SU5-41D-006	Lead-212	16.60	0.426	0.070	03/23/2006			1464208.311	597781.993
SU5-41D-006	Plutonium-238	55.00	30.300	0.070	03/23/2006			1464208.311	597781.993
SU5-41D-006	Plutonium-239/240	62.00	0.197	0.047	03/23/2006	J	J	1464208.311	597781.993
SU5-41D-006	Potassium-40	47.80	8.000	0.400	03/23/2006			1464208.311	597781.993
SU5-41D-006	Protactinium-231	4.00	1.200	1.200	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Radium-226	2.90	0.480	0.240	03/23/2006		J	1464208.311	597781.993
SU5-41D-006	Thorium-228	2.60	0.700	0.060	03/23/2006			1464208.311	597781.993
SU5-41D-006	Thorium-229	18.90	0.650	0.650	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Thorium-230	2.80	0.860	0.050	03/23/2006			1464208.311	597781.993
SU5-41D-006	Thorium-232	2.10	0.510	0.030	03/23/2006			1464208.311	597781.993
SU5-41D-006	Uranium-235	3.20	0.590	0.590	03/23/2006	U	UJ	1464208.311	597781.993
SU5-41D-006	Uranium-238	2.20	1.200	1.200	03/23/2006	U	U	1464208.311	597781.993
SU5-41D-007	Actinium-227	4.60	0.360	0.360	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Actinium-228	1.93	0.430	0.430	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Americium-241	63.00	0.480	0.150	03/23/2006			1464223.311	597781.993
SU5-41D-007	Bismuth-207	1.20	0.068	0.068	03/23/2006	U	UJ	1464223.311	597781.993

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-007	Bismuth-210M	8.30	0.071	0.071	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Bismuth-214	1.17	0.590	0.320	03/23/2006			1464223.311	597781.993
SU5-41D-007	Cesium-137	3.80	0.088	0.088	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Cobalt-60	0.70	0.090	0.090	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Lead-212	16.60	0.254	0.120	03/23/2006			1464223.311	597781.993
SU5-41D-007	Plutonium-238	55.00	42.000	0.070	03/23/2006			1464223.311	597781.993
SU5-41D-007	Plutonium-239/240	62.00	0.780	0.040	03/23/2006		J	1464223.311	597781.993
SU5-41D-007	Potassium-40	47.80	7.100	1.000	03/23/2006			1464223.311	597781.993
SU5-41D-007	Protactinium-231	4.00	1.500	1.500	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Radium-226	2.90	0.590	0.320	03/23/2006		J	1464223.311	597781.993
SU5-41D-007	Thorium-228	2.60	0.500	0.060	03/23/2006			1464223.311	597781.993
SU5-41D-007	Thorium-229	18.90	0.860	0.860	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Thorium-230	2.80	0.680	0.040	03/23/2006			1464223.311	597781.993
SU5-41D-007	Thorium-232	2.10	0.490	0.050	03/23/2006			1464223.311	597781.993
SU5-41D-007	Uranium-235	3.20	0.750	0.750	03/23/2006	U	UJ	1464223.311	597781.993
SU5-41D-007	Uranium-238	2.20	1.500	1.500	03/23/2006	U	U	1464223.311	597781.993
SU5-41D-008	Actinium-227	4.60	0.390	0.390	03/23/2006		U	1464238.311	597781.993
SU5-41D-008	Actinium-228	1.93	0.410	0.240	03/23/2006		J	1464238.311	597781.993
SU5-41D-008	Americium-241	63.00	0.130	0.130	03/23/2006	U	U	1464238.311	597781.993
SU5-41D-008	Bismuth-207	1.20	0.051	0.051	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Bismuth-210M	8.30	0.061	0.061	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Bismuth-214	1.17	0.320	0.200	03/23/2006			1464238.311	597781.993
SU5-41D-008	Cesium-137	3.80	0.061	0.061	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Cobalt-60	0.70	0.066	0.066	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Lead-210	7.40	1.600	1.600	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Lead-212	16.60	0.324	0.099	03/23/2006			1464238.311	597781.993
SU5-41D-008	Plutonium-238	55.00	13.700	0.050	03/23/2006			1464238.311	597781.993
SU5-41D-008	Plutonium-239/240	62.00	0.168	0.044	03/23/2006	J	J	1464238.311	597781.993
SU5-41D-008	Potassium-40	47.80	8.700	0.600	03/23/2006			1464238.311	597781.993
SU5-41D-008	Protactinium-231	4.00	1.300	1.300	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Radium-226	2.90	0.320	0.200	03/23/2006		J	1464238.311	597781.993
SU5-41D-008	Thorium-228	2.60	0.550	0.060	03/23/2006			1464238.311	597781.993
SU5-41D-008	Thorium-229	18.90	0.660	0.660	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Thorium-230	2.80	0.590	0.050	03/23/2006			1464238.311	597781.993
SU5-41D-008	Thorium-232	2.10	0.650	0.040	03/23/2006			1464238.311	597781.993
SU5-41D-008	Uranium-235	3.20	0.600	0.600	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-008	Uranium-238	2.20	1.200	1.200	03/23/2006	U	UJ	1464238.311	597781.993
SU5-41D-009	Actinium-227	4.60	0.270	0.270	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Actinium-228	1.93	0.340	0.340	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Americium-241	63.00	0.120	0.120	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Bismuth-207	1.20	0.051	0.051	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Bismuth-210M	8.30	0.068	0.068	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Bismuth-214	1.17	0.400	0.230	03/23/2006			1464253.311	597781.993
SU5-41D-009	Cesium-137	3.80	0.068	0.068	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Cobalt-60	0.70	0.068	0.068	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Lead-210	7.40	1.200	1.200	03/23/2006	U	U	1464253.311	597781.993
SU5-41D-009	Lead-212	16.60	0.292	0.100	03/23/2006			1464253.311	597781.993
SU5-41D-009	Plutonium-238	55.00	15.100	0.060	03/23/2006			1464253.311	597781.993
SU5-41D-009	Plutonium-239/240	62.00	0.290	0.040	03/23/2006		J	1464253.311	597781.993
SU5-41D-009	Potassium-40	47.80	7.200	0.700	03/23/2006			1464253.311	597781.993
SU5-41D-009	Protactinium-231	4.00	1.100	1.100	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Radium-226	2.90	0.400	0.230	03/23/2006		J	1464253.311	597781.993
SU5-41D-009	Thorium-228	2.60	0.580	0.050	03/23/2006			1464253.311	597781.993
SU5-41D-009	Thorium-229	18.90	0.620	0.620	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Thorium-230	2.80	0.750	0.040	03/23/2006			1464253.311	597781.993
SU5-41D-009	Thorium-232	2.10	0.330	0.050	03/23/2006			1464253.311	597781.993
SU5-41D-009	Uranium-235	3.20	0.580	0.580	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-009	Uranium-238	2.20	1.100	1.100	03/23/2006	U	UJ	1464253.311	597781.993
SU5-41D-010	Actinium-227	4.60	0.410	0.410	03/23/2006	U	UJ	1464268.311	597781.993

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-010	Actinium-228	1.93	1.060	0.330	03/23/2006		J	1464268.311	597781.993
SU5-41D-010	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Bismuth-207	1.20	0.067	0.067	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Bismuth-214	1.17	0.980	0.410	03/23/2006			1464268.311	597781.993
SU5-41D-010	Cesium-137	3.80	0.110	0.110	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Lead-212	16.60	0.880	0.150	03/23/2006			1464268.311	597781.993
SU5-41D-010	Plutonium-238	55.00	1.210	0.050	03/23/2006			1464268.311	597781.993
SU5-41D-010	Plutonium-239/240	62.00	0.052	0.052	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Potassium-40	47.80	27.000	1.100	03/23/2006			1464268.311	597781.993
SU5-41D-010	Protactinium-231	4.00	1.900	1.900	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Radium-226	2.90	0.980	0.410	03/23/2006		J	1464268.311	597781.993
SU5-41D-010	Thorium-228	2.60	0.760	0.050	03/23/2006			1464268.311	597781.993
SU5-41D-010	Thorium-229	18.90	0.950	0.950	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Thorium-230	2.80	0.800	0.050	03/23/2006			1464268.311	597781.993
SU5-41D-010	Thorium-232	2.10	0.860	0.040	03/23/2006			1464268.311	597781.993
SU5-41D-010	Uranium-235	3.20	0.890	0.890	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-010	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464268.311	597781.993
SU5-41D-011	Actinium-227	4.60	0.350	0.350	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Actinium-228	1.93	0.450	0.450	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Americium-241	63.00	0.140	0.140	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Bismuth-207	1.20	0.054	0.054	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Bismuth-210M	8.30	0.074	0.074	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Bismuth-214	1.17	0.570	0.310	03/23/2006			1464283.311	597781.993
SU5-41D-011	Cesium-137	3.80	0.079	0.079	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Cobalt-60	0.70	0.094	0.094	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Lead-210	7.40	2.000	2.000	03/23/2006	U	U	1464283.311	597781.993
SU5-41D-011	Lead-212	16.60	0.390	0.130	03/23/2006			1464283.311	597781.993
SU5-41D-011	Plutonium-238	55.00	20.000	0.050	03/23/2006			1464283.311	597781.993
SU5-41D-011	Plutonium-239/240	62.00	0.220	0.027	03/23/2006		J	1464283.311	597781.993
SU5-41D-011	Potassium-40	47.80	9.600	0.700	03/23/2006			1464283.311	597781.993
SU5-41D-011	Protactinium-231	4.00	1.300	1.300	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Radium-226	2.90	0.570	0.310	03/23/2006		J	1464283.311	597781.993
SU5-41D-011	Thorium-228	2.60	0.520	0.070	03/23/2006			1464283.311	597781.993
SU5-41D-011	Thorium-229	18.90	0.810	0.810	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Thorium-230	2.80	0.890	0.060	03/23/2006			1464283.311	597781.993
SU5-41D-011	Thorium-232	2.10	0.750	0.050	03/23/2006			1464283.311	597781.993
SU5-41D-011	Uranium-235	3.20	0.750	0.750	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-011	Uranium-238	2.20	1.400	1.400	03/23/2006	U	UJ	1464283.311	597781.993
SU5-41D-012	Actinium-227	4.60	0.300	0.300	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Actinium-228	1.93	0.570	0.190	03/23/2006		J	1464298.311	597781.993
SU5-41D-012	Americium-241	63.00	0.140	0.140	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Bismuth-207	1.20	0.058	0.058	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Bismuth-210M	8.30	0.070	0.070	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Bismuth-214	1.17	0.390	0.270	03/23/2006			1464298.311	597781.993
SU5-41D-012	Cesium-137	3.80	0.076	0.076	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Cobalt-60	0.70	0.068	0.068	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Lead-210	7.40	1.800	1.800	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Lead-212	16.60	0.280	0.100	03/23/2006			1464298.311	597781.993
SU5-41D-012	Plutonium-238	55.00	17.600	0.060	03/23/2006			1464298.311	597781.993
SU5-41D-012	Plutonium-239/240	62.00	0.300	0.050	03/23/2006		J	1464298.311	597781.993
SU5-41D-012	Potassium-40	47.80	7.900	0.600	03/23/2006			1464298.311	597781.993
SU5-41D-012	Protactinium-231	4.00	1.400	1.400	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Radium-226	2.90	0.390	0.270	03/23/2006		J	1464298.311	597781.993
SU5-41D-012	Thorium-228	2.60	0.370	0.080	03/23/2006			1464298.311	597781.993
SU5-41D-012	Thorium-229	18.90	0.710	0.710	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Thorium-230	2.80	0.700	0.050	03/23/2006			1464298.311	597781.993
SU5-41D-012	Thorium-232	2.10	0.340	0.030	03/23/2006			1464298.311	597781.993

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-012	Uranium-235	3.20	0.740	0.740	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-012	Uranium-238	2.20	1.300	1.300	03/23/2006	U	UJ	1464298.311	597781.993
SU5-41D-013	Actinium-227	4.60	0.260	0.260	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Actinium-228	1.93	0.580	0.180	03/28/2006		J	1464313.311	597781.993
SU5-41D-013	Americium-241	63.00	0.140	0.140	03/28/2006	U	U	1464313.311	597781.993
SU5-41D-013	Bismuth-207	1.20	0.055	0.055	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Bismuth-210M	8.30	0.062	0.062	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Bismuth-214	1.17	0.570	0.270	03/28/2006			1464313.311	597781.993
SU5-41D-013	Cesium-137	3.80	0.069	0.069	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Cobalt-60	0.70	0.079	0.079	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Lead-210	7.40	1.500	1.500	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Lead-212	16.60	0.301	0.089	03/28/2006			1464313.311	597781.993
SU5-41D-013	Plutonium-238	55.00	25.400	0.070	03/28/2006			1464313.311	597781.993
SU5-41D-013	Plutonium-239/240	62.00	0.213	0.026	03/28/2006		J	1464313.311	597781.993
SU5-41D-013	Potassium-40	47.80	7.900	0.700	03/28/2006			1464313.311	597781.993
SU5-41D-013	Protactinium-231	4.00	1.200	1.200	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Radium-226	2.90	0.570	0.270	03/28/2006		J	1464313.311	597781.993
SU5-41D-013	Thorium-228	2.60	0.420	0.070	03/28/2006			1464313.311	597781.993
SU5-41D-013	Thorium-229	18.90	0.580	0.580	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Thorium-230	2.80	0.880	0.030	03/28/2006			1464313.311	597781.993
SU5-41D-013	Thorium-232	2.10	0.470	0.030	03/28/2006			1464313.311	597781.993
SU5-41D-013	Uranium-235	3.20	0.580	0.580	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-013	Uranium-238	2.20	1.000	1.000	03/28/2006	U	UJ	1464313.311	597781.993
SU5-41D-014	Actinium-227	4.60	0.390	0.370	03/23/2006		J	1464328.311	597781.993
SU5-41D-014	Actinium-228	1.93	0.600	0.220	03/23/2006		J	1464328.311	597781.993
SU5-41D-014	Americium-241	63.00	0.140	0.140	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Bismuth-207	1.20	0.056	0.056	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Bismuth-210M	8.30	0.080	0.080	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Bismuth-214	1.17	0.930	0.140	03/23/2006			1464328.311	597781.993
SU5-41D-014	Cesium-137	3.80	0.073	0.073	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Cobalt-60	0.70	0.075	0.075	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Lead-210	7.40	1.700	1.700	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Lead-212	16.60	0.556	0.110	03/23/2006			1464328.311	597781.993
SU5-41D-014	Plutonium-238	55.00	0.107	0.066	03/23/2006	J	J	1464328.311	597781.993
SU5-41D-014	Plutonium-239/240	62.00	0.040	0.040	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Potassium-40	47.80	11.300	0.700	03/23/2006			1464328.311	597781.993
SU5-41D-014	Protactinium-231	4.00	1.600	1.600	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Radium-226	2.90	0.930	0.140	03/23/2006		J	1464328.311	597781.993
SU5-41D-014	Thorium-228	2.60	0.860	0.070	03/23/2006			1464328.311	597781.993
SU5-41D-014	Thorium-229	18.90	0.810	0.810	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Thorium-230	2.80	1.810	0.040	03/23/2006			1464328.311	597781.993
SU5-41D-014	Thorium-232	2.10	0.740	0.030	03/23/2006			1464328.311	597781.993
SU5-41D-014	Uranium-235	3.20	0.740	0.740	03/23/2006	U	UJ	1464328.311	597781.993
SU5-41D-014	Uranium-238	2.20	1.400	1.400	03/23/2006	U	U	1464328.311	597781.993
SU5-41D-015	Actinium-227	4.60	0.620	0.610	03/23/2006		J	1464215.811	597794.984
SU5-41D-015	Actinium-228	1.93	1.050	0.370	03/23/2006		J	1464215.811	597794.984
SU5-41D-015	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Bismuth-207	1.20	0.087	0.087	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Bismuth-210M	8.30	0.120	0.120	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Bismuth-214	1.17	0.560	0.380	03/23/2006			1464215.811	597794.984
SU5-41D-015	Cesium-137	3.80	0.130	0.130	03/23/2006	U	U	1464215.811	597794.984
SU5-41D-015	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Lead-210	7.40	3.300	1.500	03/23/2006			1464215.811	597794.984
SU5-41D-015	Lead-212	16.60	0.490	0.140	03/23/2006			1464215.811	597794.984
SU5-41D-015	Plutonium-238	55.00	17.100	0.090	03/23/2006			1464215.811	597794.984
SU5-41D-015	Plutonium-239/240	62.00	0.157	0.042	03/23/2006	J	J	1464215.811	597794.984
SU5-41D-015	Potassium-40	47.80	11.700	1.300	03/23/2006			1464215.811	597794.984
SU5-41D-015	Protactinium-231	4.00	2.000	2.000	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Radium-226	2.90	0.560	0.380	03/23/2006		J	1464215.811	597794.984
SU5-41D-015	Thorium-228	2.60	0.670	0.060	03/23/2006			1464215.811	597794.984

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-015	Thorium-229	18.90	0.980	0.980	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Thorium-230	2.80	0.960	0.050	03/23/2006			1464215.811	597794.984
SU5-41D-015	Thorium-232	2.10	0.570	0.030	03/23/2006			1464215.811	597794.984
SU5-41D-015	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-015	Uranium-238	2.20	1.600	1.600	03/23/2006	U	UJ	1464215.811	597794.984
SU5-41D-016	Actinium-227	4.60	0.300	0.300	03/23/2006	U	U	1464230.811	597794.984
SU5-41D-016	Actinium-228	1.93	0.210	0.210	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Americium-241	63.00	0.110	0.110	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Bismuth-207	1.20	0.048	0.048	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Bismuth-210M	8.30	0.063	0.063	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Bismuth-214	1.17	0.430	0.240	03/23/2006			1464230.811	597794.984
SU5-41D-016	Cesium-137	3.80	0.067	0.067	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Cobalt-60	0.70	0.059	0.059	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Lead-210	7.40	1.400	1.400	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Lead-212	16.60	0.178	0.100	03/23/2006			1464230.811	597794.984
SU5-41D-016	Plutonium-238	55.00	15.100	0.050	03/23/2006			1464230.811	597794.984
SU5-41D-016	Plutonium-239/240	62.00	0.240	0.050	03/23/2006		J	1464230.811	597794.984
SU5-41D-016	Potassium-40	47.80	5.300	0.400	03/23/2006			1464230.811	597794.984
SU5-41D-016	Protactinium-231	4.00	1.000	1.000	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Radium-226	2.90	0.430	0.240	03/23/2006		J	1464230.811	597794.984
SU5-41D-016	Thorium-228	2.60	0.410	0.060	03/23/2006			1464230.811	597794.984
SU5-41D-016	Thorium-229	18.90	0.620	0.620	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Thorium-230	2.80	0.660	0.020	03/23/2006			1464230.811	597794.984
SU5-41D-016	Thorium-232	2.10	0.280	0.020	03/23/2006			1464230.811	597794.984
SU5-41D-016	Uranium-235	3.20	0.540	0.540	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-016	Uranium-238	2.20	1.000	1.000	03/23/2006	U	UJ	1464230.811	597794.984
SU5-41D-017A	Actinium-227	4.60	0.360	0.360	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Actinium-228	1.93	0.640	0.250	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Americium-241	63.00	0.150	0.150	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Bismuth-207	1.20	0.058	0.058	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Bismuth-210M	8.30	0.082	0.082	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Bismuth-214	1.17	0.710	0.320	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Cesium-137	3.80	0.100	0.100	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Cobalt-60	0.70	0.120	0.120	04/04/2006	U	U	1464245.811	597794.984
SU5-41D-017A	Lead-210	7.40	1.900	1.900	04/04/2006	U	U	1464245.811	597794.984
SU5-41D-017A	Lead-212	16.60	0.690	0.110	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Plutonium-238	55.00	28.500	0.080	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Plutonium-239/240	62.00	0.400	0.030	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Potassium-40	47.80	12.200	0.500	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Protactinium-231	4.00	1.500	1.500	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Radium-226	2.90	0.710	0.320	04/04/2006		J	1464245.811	597794.984
SU5-41D-017A	Thorium-228	2.60	0.620	0.050	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Thorium-229	18.90	0.790	0.790	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Thorium-230	2.80	0.870	0.040	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Thorium-232	2.10	0.530	0.040	04/04/2006			1464245.811	597794.984
SU5-41D-017A	Uranium-235	3.20	0.690	0.690	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-017A	Uranium-238	2.20	1.400	1.400	04/04/2006	U	UJ	1464245.811	597794.984
SU5-41D-018	Actinium-227	4.60	0.220	0.220	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Actinium-228	1.93	0.250	0.250	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Americium-241	63.00	0.100	0.100	03/23/2006	U	U	1464260.811	597794.984
SU5-41D-018	Bismuth-207	1.20	0.035	0.035	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Bismuth-210M	8.30	0.047	0.047	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Bismuth-214	1.17	0.530	0.220	03/23/2006			1464260.811	597794.984
SU5-41D-018	Cesium-137	3.80	0.067	0.067	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Cobalt-60	0.70	0.060	0.060	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Lead-210	7.40	1.000	1.000	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Lead-212	16.60	0.237	0.064	03/23/2006			1464260.811	597794.984
SU5-41D-018	Plutonium-238	55.00	36.000	0.070	03/23/2006			1464260.811	597794.984
SU5-41D-018	Plutonium-239/240	62.00	0.340	0.020	03/23/2006		J	1464260.811	597794.984
SU5-41D-018	Potassium-40	47.80	5.160	0.460	03/23/2006			1464260.811	597794.984

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-018	Protactinium-231	4.00	0.740	0.740	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Radium-226	2.90	0.530	0.220	03/23/2006		J	1464260.811	597794.984
SU5-41D-018	Thorium-228	2.60	0.310	0.070	03/23/2006			1464260.811	597794.984
SU5-41D-018	Thorium-229	18.90	0.480	0.480	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Thorium-230	2.80	0.480	0.050	03/23/2006			1464260.811	597794.984
SU5-41D-018	Thorium-232	2.10	0.340	0.040	03/23/2006			1464260.811	597794.984
SU5-41D-018	Uranium-235	3.20	0.530	0.530	03/23/2006	U	UJ	1464260.811	597794.984
SU5-41D-018	Uranium-238	2.20	0.870	0.870	03/23/2006	U	U	1464260.811	597794.984
SU5-41D-019	Actinium-227	4.60	0.280	0.280	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Actinium-228	1.93	0.380	0.170	03/23/2006		J	1464275.811	597794.984
SU5-41D-019	Americium-241	63.00	0.120	0.120	03/23/2006	U	U	1464275.811	597794.984
SU5-41D-019	Bismuth-207	1.20	0.048	0.048	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Bismuth-210M	8.30	0.061	0.061	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Bismuth-214	1.17	0.420	0.240	03/23/2006			1464275.811	597794.984
SU5-41D-019	Cesium-137	3.80	0.061	0.061	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Cobalt-60	0.70	0.082	0.082	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Lead-210	7.40	1.500	1.500	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Lead-212	16.60	0.294	0.080	03/23/2006			1464275.811	597794.984
SU5-41D-019	Plutonium-238	55.00	8.700	0.060	03/23/2006			1464275.811	597794.984
SU5-41D-019	Plutonium-239/240	62.00	0.113	0.038	03/23/2006	J	J	1464275.811	597794.984
SU5-41D-019	Potassium-40	47.80	6.900	0.400	03/23/2006			1464275.811	597794.984
SU5-41D-019	Protactinium-231	4.00	1.300	1.300	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Radium-226	2.90	0.420	0.240	03/23/2006		J	1464275.811	597794.984
SU5-41D-019	Thorium-228	2.60	0.340	0.180	03/23/2006		J	1464275.811	597794.984
SU5-41D-019	Thorium-229	18.90	0.590	0.590	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Thorium-230	2.80	0.630	0.140	03/23/2006		J	1464275.811	597794.984
SU5-41D-019	Thorium-232	2.10	0.430	0.060	03/23/2006		J	1464275.811	597794.984
SU5-41D-019	Uranium-235	3.20	0.690	0.690	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-019	Uranium-238	2.20	1.200	1.200	03/23/2006	U	UJ	1464275.811	597794.984
SU5-41D-020	Actinium-227	4.60	0.970	0.590	03/23/2006			1464290.811	597794.984
SU5-41D-020	Actinium-228	1.93	0.640	0.330	03/23/2006		J	1464290.811	597794.984
SU5-41D-020	Americium-241	63.00	0.160	0.160	03/23/2006	U	U	1464290.811	597794.984
SU5-41D-020	Bismuth-207	1.20	0.072	0.072	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Bismuth-214	1.17	0.830	0.360	03/23/2006			1464290.811	597794.984
SU5-41D-020	Cesium-137	3.80	0.110	0.110	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Cobalt-60	0.70	0.094	0.094	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Lead-210	7.40	2.500	2.100	03/23/2006		J	1464290.811	597794.984
SU5-41D-020	Lead-212	16.60	0.770	0.110	03/23/2006			1464290.811	597794.984
SU5-41D-020	Plutonium-238	55.00	27.100	0.090	03/23/2006			1464290.811	597794.984
SU5-41D-020	Plutonium-239/240	62.00	0.240	0.040	03/23/2006		J	1464290.811	597794.984
SU5-41D-020	Potassium-40	47.80	12.500	0.900	03/23/2006			1464290.811	597794.984
SU5-41D-020	Protactinium-231	4.00	1.900	1.900	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Radium-226	2.90	0.830	0.360	03/23/2006		J	1464290.811	597794.984
SU5-41D-020	Thorium-228	2.60	0.590	0.050	03/23/2006			1464290.811	597794.984
SU5-41D-020	Thorium-229	18.90	0.990	0.990	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Thorium-230	2.80	0.960	0.080	03/23/2006			1464290.811	597794.984
SU5-41D-020	Thorium-232	2.10	0.810	0.050	03/23/2006			1464290.811	597794.984
SU5-41D-020	Uranium-235	3.20	0.950	0.950	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-020	Uranium-238	2.20	1.900	1.900	03/23/2006	U	UJ	1464290.811	597794.984
SU5-41D-021	Actinium-227	4.60	0.510	0.510	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Actinium-228	1.93	0.890	0.330	03/23/2006		J	1464305.811	597794.984
SU5-41D-021	Americium-241	63.00	0.450	0.210	03/23/2006			1464305.811	597794.984
SU5-41D-021	Bismuth-207	1.20	0.081	0.081	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Bismuth-210M	8.30	0.100	0.100	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Bismuth-214	1.17	0.950	0.400	03/23/2006			1464305.811	597794.984
SU5-41D-021	Cesium-137	3.80	0.150	0.150	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Cobalt-60	0.70	0.088	0.088	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Lead-210	7.40	2.600	2.600	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Lead-212	16.60	0.800	0.170	03/23/2006			1464305.811	597794.984

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-021	Plutonium-238	55.00	46.800	0.070	03/23/2006			1464305.811	597794.984
SU5-41D-021	Plutonium-239/240	62.00	0.730	0.050	03/23/2006		J	1464305.811	597794.984
SU5-41D-021	Potassium-40	47.80	20.000	0.900	03/23/2006			1464305.811	597794.984
SU5-41D-021	Protactinium-231	4.00	2.100	2.100	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Radium-226	2.90	0.950	0.400	03/23/2006		J	1464305.811	597794.984
SU5-41D-021	Thorium-228	2.60	0.850	0.070	03/23/2006			1464305.811	597794.984
SU5-41D-021	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Thorium-230	2.80	1.490	0.030	03/23/2006			1464305.811	597794.984
SU5-41D-021	Thorium-232	2.10	0.820	0.040	03/23/2006			1464305.811	597794.984
SU5-41D-021	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-021	Uranium-238	2.20	1.900	1.900	03/23/2006	U	UJ	1464305.811	597794.984
SU5-41D-022	Actinium-227	4.60	0.450	0.450	03/23/2006	U	U	1464320.811	597794.984
SU5-41D-022	Actinium-228	1.93	0.540	0.510	03/23/2006			1464320.811	597794.984
SU5-41D-022	Americium-241	63.00	0.180	0.180	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Bismuth-207	1.20	0.067	0.067	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Bismuth-214	1.17	0.610	0.140	03/23/2006			1464320.811	597794.984
SU5-41D-022	Cesium-137	3.80	0.120	0.120	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Cobalt-60	0.70	0.100	0.100	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Lead-210	7.40	1.900	1.900	03/23/2006	U	U	1464320.811	597794.984
SU5-41D-022	Lead-212	16.60	0.570	0.150	03/23/2006			1464320.811	597794.984
SU5-41D-022	Plutonium-238	55.00	24.500	0.060	03/23/2006			1464320.811	597794.984
SU5-41D-022	Plutonium-239/240	62.00	0.165	0.046	03/23/2006	J		1464320.811	597794.984
SU5-41D-022	Potassium-40	47.80	15.000	0.900	03/23/2006			1464320.811	597794.984
SU5-41D-022	Protactinium-231	4.00	2.000	2.000	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Radium-226	2.90	0.610	0.140	03/23/2006		J	1464320.811	597794.984
SU5-41D-022	Thorium-228	2.60	0.600	0.060	03/23/2006			1464320.811	597794.984
SU5-41D-022	Thorium-229	18.90	0.910	0.910	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Thorium-230	2.80	0.830	0.030	03/23/2006			1464320.811	597794.984
SU5-41D-022	Thorium-232	2.10	0.850	0.050	03/23/2006			1464320.811	597794.984
SU5-41D-022	Uranium-235	3.20	0.920	0.920	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-022	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464320.811	597794.984
SU5-41D-023	Actinium-227	4.60	0.360	0.360	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Actinium-228	1.93	0.740	0.330	03/23/2006			1464335.811	597794.984
SU5-41D-023	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Bismuth-207	1.20	0.068	0.068	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Bismuth-210M	8.30	0.082	0.082	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Bismuth-214	1.17	1.700	0.130	03/23/2006			1464335.811	597794.984
SU5-41D-023	Cesium-137	3.80	0.091	0.091	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Cobalt-60	0.70	0.100	0.100	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Lead-210	7.40	2.000	2.000	03/23/2006	U	U	1464335.811	597794.984
SU5-41D-023	Lead-212	16.60	0.950	0.100	03/23/2006			1464335.811	597794.984
SU5-41D-023	Plutonium-238	55.00	0.450	0.100	03/23/2006			1464335.811	597794.984
SU5-41D-023	Plutonium-239/240	62.00	0.058	0.058	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Potassium-40	47.80	16.100	0.700	03/23/2006			1464335.811	597794.984
SU5-41D-023	Protactinium-231	4.00	1.500	1.500	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Radium-226	2.90	1.700	0.130	03/23/2006		J	1464335.811	597794.984
SU5-41D-023	Thorium-228	2.60	0.800	0.070	03/23/2006			1464335.811	597794.984
SU5-41D-023	Thorium-229	18.90	0.850	0.850	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-023	Thorium-230	2.80	1.690	0.050	03/23/2006			1464335.811	597794.984
SU5-41D-023	Thorium-232	2.10	0.810	0.030	03/23/2006			1464335.811	597794.984
SU5-41D-023	Uranium-235	3.20	0.880	0.880	03/23/2006	U	U	1464335.811	597794.984
SU5-41D-023	Uranium-238	2.20	1.600	1.600	03/23/2006	U	UJ	1464335.811	597794.984
SU5-41D-024	Actinium-227	4.60	0.440	0.440	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Actinium-228	1.93	0.960	0.360	03/23/2006			1464253.311	597807.974
SU5-41D-024	Americium-241	63.00	0.190	0.190	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Bismuth-207	1.20	0.074	0.074	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Bismuth-210M	8.30	0.100	0.100	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Bismuth-214	1.17	1.320	0.170	03/23/2006			1464253.311	597807.974
SU5-41D-024	Cesium-137	3.80	0.110	0.110	03/23/2006	U	UJ	1464253.311	597807.974

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-024	Cobalt-60	0.70	0.091	0.091	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Lead-210	7.40	2.700	2.700	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Lead-212	16.60	0.950	0.130	03/23/2006			1464253.311	597807.974
SU5-41D-024	Plutonium-238	55.00	0.126	0.098	03/23/2006	J	J	1464253.311	597807.974
SU5-41D-024	Plutonium-239/240	62.00	0.048	0.048	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Potassium-40	47.80	17.300	0.700	03/23/2006			1464253.311	597807.974
SU5-41D-024	Protactinium-231	4.00	1.900	1.900	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Radium-226	2.90	1.320	0.170	03/23/2006		J	1464253.311	597807.974
SU5-41D-024	Thorium-228	2.60	0.830	0.070	03/23/2006			1464253.311	597807.974
SU5-41D-024	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Thorium-230	2.80	2.010	0.030	03/23/2006			1464253.311	597807.974
SU5-41D-024	Thorium-232	2.10	0.690	0.030	03/23/2006			1464253.311	597807.974
SU5-41D-024	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464253.311	597807.974
SU5-41D-024	Uranium-238	2.20	2.000	2.000	03/23/2006	U	U	1464253.311	597807.974
SU5-41D-025	Actinium-227	4.60	1.430	0.650	03/23/2006			1464268.311	597807.974
SU5-41D-025	Actinium-228	1.93	1.010	0.300	03/23/2006			1464268.311	597807.974
SU5-41D-025	Americium-241	63.00	0.190	0.190	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Bismuth-207	1.20	0.076	0.076	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Bismuth-210M	8.30	0.096	0.096	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Bismuth-214	1.17	0.610	0.190	03/23/2006			1464268.311	597807.974
SU5-41D-025	Cesium-137	3.80	0.098	0.098	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Lead-210	7.40	2.400	2.400	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Lead-212	16.60	0.930	0.150	03/23/2006			1464268.311	597807.974
SU5-41D-025	Plutonium-238	55.00	0.116	0.080	03/23/2006	J	J	1464268.311	597807.974
SU5-41D-025	Plutonium-239/240	62.00	0.058	0.058	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Potassium-40	47.80	29.000	0.800	03/23/2006			1464268.311	597807.974
SU5-41D-025	Protactinium-231	4.00	2.000	2.000	03/23/2006	U	U	1464268.311	597807.974
SU5-41D-025	Radium-226	2.90	0.610	0.190	03/23/2006		J	1464268.311	597807.974
SU5-41D-025	Thorium-228	2.60	0.970	0.060	03/23/2006			1464268.311	597807.974
SU5-41D-025	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Thorium-230	2.80	0.760	0.040	03/23/2006			1464268.311	597807.974
SU5-41D-025	Thorium-232	2.10	0.810	0.020	03/23/2006			1464268.311	597807.974
SU5-41D-025	Uranium-235	3.20	0.920	0.920	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-025	Uranium-238	2.20	1.900	1.900	03/23/2006	U	UJ	1464268.311	597807.974
SU5-41D-026	Actinium-227	4.60	0.460	0.460	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Actinium-228	1.93	0.710	0.300	03/22/2006			1464283.311	597807.974
SU5-41D-026	Americium-241	63.00	0.200	0.200	03/22/2006	U	U	1464283.311	597807.974
SU5-41D-026	Bismuth-207	1.20	0.078	0.078	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Bismuth-210M	8.30	0.092	0.092	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Bismuth-214	1.17	0.840	0.170	03/22/2006			1464283.311	597807.974
SU5-41D-026	Cesium-137	3.80	0.120	0.120	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Cobalt-60	0.70	0.120	0.120	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Lead-210	7.40	2.400	2.400	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Lead-212	16.60	0.670	0.160	03/22/2006			1464283.311	597807.974
SU5-41D-026	Plutonium-238	55.00	24.100	0.080	03/22/2006			1464283.311	597807.974
SU5-41D-026	Plutonium-239/240	62.00	0.138	0.046	03/22/2006	J	J	1464283.311	597807.974
SU5-41D-026	Potassium-40	47.80	19.200	1.000	03/22/2006			1464283.311	597807.974
SU5-41D-026	Protactinium-231	4.00	1.800	1.800	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Radium-226	2.90	0.840	0.170	03/22/2006		J	1464283.311	597807.974
SU5-41D-026	Thorium-228	2.60	0.910	0.070	03/22/2006			1464283.311	597807.974
SU5-41D-026	Thorium-229	18.90	1.000	1.000	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Thorium-230	2.80	1.140	0.050	03/22/2006			1464283.311	597807.974
SU5-41D-026	Thorium-232	2.10	0.920	0.030	03/22/2006			1464283.311	597807.974
SU5-41D-026	Uranium-235	3.20	1.000	1.000	03/22/2006	U	UJ	1464283.311	597807.974
SU5-41D-026	Uranium-238	2.20	1.700	1.700	03/22/2006	U	U	1464283.311	597807.974
SU5-41D-027	Actinium-227	4.60	0.280	0.280	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Actinium-228	1.93	0.360	0.360	03/22/2006	U	U	1464298.311	597807.974
SU5-41D-027	Americium-241	63.00	0.140	0.140	03/22/2006	U	U	1464298.311	597807.974
SU5-41D-027	Bismuth-207	1.20	0.049	0.049	03/22/2006	U	UJ	1464298.311	597807.974

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-027	Bismuth-210M	8.30	0.070	0.070	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Bismuth-214	1.17	0.480	0.110	03/22/2006			1464298.311	597807.974
SU5-41D-027	Cesium-137	3.80	0.098	0.098	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Cobalt-60	0.70	0.057	0.057	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Lead-210	7.40	1.600	1.600	03/22/2006	U	U	1464298.311	597807.974
SU5-41D-027	Lead-212	16.60	0.360	0.100	03/22/2006			1464298.311	597807.974
SU5-41D-027	Plutonium-238	55.00	24.100	0.090	03/22/2006			1464298.311	597807.974
SU5-41D-027	Plutonium-239/240	62.00	0.165	0.075	03/22/2006	J	J	1464298.311	597807.974
SU5-41D-027	Potassium-40	47.80	10.600	0.500	03/22/2006			1464298.311	597807.974
SU5-41D-027	Protactinium-231	4.00	1.300	1.300	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Radium-226	2.90	0.480	0.110	03/22/2006		J	1464298.311	597807.974
SU5-41D-027	Thorium-228	2.60	0.470	0.070	03/22/2006			1464298.311	597807.974
SU5-41D-027	Thorium-229	18.90	0.630	0.630	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Thorium-230	2.80	0.820	0.030	03/22/2006			1464298.311	597807.974
SU5-41D-027	Thorium-232	2.10	0.360	0.030	03/22/2006			1464298.311	597807.974
SU5-41D-027	Uranium-235	3.20	0.640	0.640	03/22/2006	U	UJ	1464298.311	597807.974
SU5-41D-027	Uranium-238	2.20	1.300	1.300	03/22/2006	U	U	1464298.311	597807.974
SU5-41D-028A	Actinium-227	4.60	0.530	0.530	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Actinium-228	1.93	1.780	0.380	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Americium-241	63.00	0.220	0.220	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Bismuth-207	1.20	0.095	0.095	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Bismuth-210M	8.30	0.120	0.120	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Bismuth-214	1.17	0.840	0.210	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Cesium-137	3.80	0.366	0.130	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Cobalt-60	0.70	0.110	0.110	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Lead-210	7.40	2.700	2.700	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Lead-212	16.60	1.290	0.200	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Plutonium-238	55.00	33.900	0.070	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Plutonium-239/240	62.00	0.570	0.040	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Potassium-40	47.80	12.900	1.200	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Protactinium-231	4.00	2.300	2.300	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Radium-226	2.90	0.840	0.210	04/04/2006		J	1464313.311	597807.974
SU5-41D-028A	Thorium-228	2.60	1.810	0.080	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Thorium-229	18.90	1.200	1.200	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Thorium-230	2.80	2.430	0.050	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Thorium-232	2.10	1.500	0.040	04/04/2006			1464313.311	597807.974
SU5-41D-028A	Uranium-235	3.20	1.100	1.100	04/04/2006	U	UJ	1464313.311	597807.974
SU5-41D-028A	Uranium-238	2.20	2.400	2.400	04/04/2006	U	U	1464313.311	597807.974
SU5-41D-029A	Actinium-227	4.60	0.220	0.220	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Actinium-228	1.93	0.250	0.120	04/04/2006		J	1464328.311	597807.974
SU5-41D-029A	Americium-241	63.00	0.083	0.083	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Bismuth-207	1.20	0.043	0.043	04/04/2006	U	U	1464328.311	597807.974
SU5-41D-029A	Bismuth-210M	8.30	0.050	0.050	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Bismuth-214	1.17	0.300	0.190	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Cesium-137	3.80	0.052	0.052	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Cobalt-60	0.70	0.055	0.055	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Lead-210	7.40	1.200	1.200	04/04/2006	U	U	1464328.311	597807.974
SU5-41D-029A	Lead-212	16.60	0.213	0.079	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Plutonium-238	55.00	13.600	0.070	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Plutonium-239/240	62.00	0.169	0.040	04/04/2006	J		1464328.311	597807.974
SU5-41D-029A	Potassium-40	47.80	5.060	0.380	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Protactinium-231	4.00	0.830	0.830	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Radium-226	2.90	0.300	0.190	04/04/2006		J	1464328.311	597807.974
SU5-41D-029A	Thorium-228	2.60	0.460	0.110	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Thorium-229	18.90	0.470	0.470	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Thorium-230	2.80	0.630	0.060	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Thorium-232	2.10	0.420	0.060	04/04/2006			1464328.311	597807.974
SU5-41D-029A	Uranium-235	3.20	0.450	0.450	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-029A	Uranium-238	2.20	0.810	0.810	04/04/2006	U	UJ	1464328.311	597807.974
SU5-41D-030A	Actinium-227	4.60	0.510	0.510	04/04/2006	U	UJ	1464343.311	597807.974

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-030A	Actinium-228	1.93	0.750	0.450	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Americium-241	63.00	0.220	0.220	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Bismuth-207	1.20	0.090	0.090	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Bismuth-210M	8.30	0.110	0.110	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Bismuth-214	1.17	1.230	0.190	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Cesium-137	3.80	0.097	0.097	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Cobalt-60	0.70	0.100	0.100	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Lead-210	7.40	2.600	2.600	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Lead-212	16.60	1.080	0.140	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Plutonium-238	55.00	0.180	0.180	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Plutonium-239/240	62.00	0.110	0.110	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Potassium-40	47.80	17.700	1.000	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Protactinium-231	4.00	1.900	1.900	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Radium-226	2.90	1.230	0.190	04/04/2006		J	1464343.311	597807.974
SU5-41D-030A	Thorium-228	2.60	0.880	0.080	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Thorium-229	18.90	1.100	1.100	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Thorium-230	2.80	1.130	0.060	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Thorium-232	2.10	0.890	0.050	04/04/2006			1464343.311	597807.974
SU5-41D-030A	Uranium-235	3.20	1.000	1.000	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-030A	Uranium-238	2.20	2.100	2.100	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-031	Actinium-227	4.60	0.290	0.290	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Actinium-228	1.93	0.430	0.400	03/23/2006			1464275.811	597820.965
SU5-41D-031	Americium-241	63.00	0.130	0.130	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Bismuth-207	1.20	0.050	0.050	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Bismuth-210M	8.30	0.068	0.068	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Bismuth-214	1.17	0.580	0.110	03/23/2006			1464275.811	597820.965
SU5-41D-031	Cesium-137	3.80	0.050	0.050	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Cobalt-60	0.70	0.055	0.055	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Lead-210	7.40	1.700	1.700	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Lead-212	16.60	0.271	0.099	03/23/2006			1464275.811	597820.965
SU5-41D-031	Plutonium-238	55.00	22.100	0.060	03/23/2006			1464275.811	597820.965
SU5-41D-031	Plutonium-239/240	62.00	0.157	0.052	03/23/2006	J	J	1464275.811	597820.965
SU5-41D-031	Potassium-40	47.80	6.200	0.600	03/23/2006			1464275.811	597820.965
SU5-41D-031	Protactinium-231	4.00	1.000	1.000	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Radium-226	2.90	0.580	0.110	03/23/2006		J	1464275.811	597820.965
SU5-41D-031	Thorium-228	2.60	0.350	0.070	03/23/2006			1464275.811	597820.965
SU5-41D-031	Thorium-229	18.90	0.730	0.730	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Thorium-230	2.80	0.660	0.050	03/23/2006			1464275.811	597820.965
SU5-41D-031	Thorium-232	2.10	0.280	0.040	03/23/2006			1464275.811	597820.965
SU5-41D-031	Uranium-235	3.20	0.690	0.690	03/23/2006	U	UJ	1464275.811	597820.965
SU5-41D-031	Uranium-238	2.20	1.300	1.300	03/23/2006	U	U	1464275.811	597820.965
SU5-41D-032	Actinium-227	4.60	1.280	0.610	03/28/2006			1464290.811	597820.965
SU5-41D-032	Actinium-228	1.93	0.980	0.350	03/28/2006			1464290.811	597820.965
SU5-41D-032	Americium-241	63.00	0.190	0.190	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Bismuth-207	1.20	0.086	0.086	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Bismuth-210M	8.30	0.094	0.094	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Bismuth-214	1.17	0.790	0.170	03/28/2006			1464290.811	597820.965
SU5-41D-032	Cesium-137	3.80	0.120	0.120	03/28/2006	U	U	1464290.811	597820.965
SU5-41D-032	Cobalt-60	0.70	0.110	0.110	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Lead-210	7.40	2.300	2.300	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Lead-212	16.60	0.970	0.110	03/28/2006			1464290.811	597820.965
SU5-41D-032	Plutonium-238	55.00	0.700	0.080	03/28/2006			1464290.811	597820.965
SU5-41D-032	Plutonium-239/240	62.00	0.054	0.054	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Potassium-40	47.80	28.000	0.800	03/28/2006			1464290.811	597820.965
SU5-41D-032	Protactinium-231	4.00	2.000	2.000	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Radium-226	2.90	0.790	0.170	03/28/2006		J	1464290.811	597820.965
SU5-41D-032	Thorium-228	2.60	1.070	0.080	03/28/2006			1464290.811	597820.965
SU5-41D-032	Thorium-229	18.90	0.960	0.960	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Thorium-230	2.80	1.150	0.060	03/28/2006			1464290.811	597820.965
SU5-41D-032	Thorium-232	2.10	1.170	0.030	03/28/2006			1464290.811	597820.965

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-032	Uranium-235	3.20	1.000	1.000	03/28/2006	U	UJ	1464290.811	597820.965
SU5-41D-032	Uranium-238	2.20	2.000	2.000	03/28/2006	U	U	1464290.811	597820.965
SU5-41D-033	Actinium-227	4.60	0.450	0.450	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Actinium-228	1.93	0.620	0.320	03/28/2006		J	1464305.811	597820.965
SU5-41D-033	Americium-241	63.00	0.170	0.170	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Bismuth-207	1.20	0.070	0.070	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Bismuth-210M	8.30	0.100	0.100	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Bismuth-214	1.17	0.870	0.160	03/28/2006			1464305.811	597820.965
SU5-41D-033	Cesium-137	3.80	0.780	0.090	03/28/2006			1464305.811	597820.965
SU5-41D-033	Cobalt-60	0.70	0.095	0.095	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Lead-210	7.40	2.300	1.800	03/28/2006		J	1464305.811	597820.965
SU5-41D-033	Lead-212	16.60	0.800	0.120	03/28/2006			1464305.811	597820.965
SU5-41D-033	Plutonium-238	55.00	40.600	0.080	03/28/2006			1464305.811	597820.965
SU5-41D-033	Plutonium-239/240	62.00	0.204	0.049	03/28/2006			1464305.811	597820.965
SU5-41D-033	Potassium-40	47.80	15.800	0.600	03/28/2006			1464305.811	597820.965
SU5-41D-033	Protactinium-231	4.00	1.700	1.700	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Radium-226	2.90	0.870	0.160	03/28/2006		J	1464305.811	597820.965
SU5-41D-033	Thorium-228	2.60	0.840	0.050	03/28/2006			1464305.811	597820.965
SU5-41D-033	Thorium-229	18.90	0.950	0.950	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Thorium-230	2.80	1.100	0.080	03/28/2006			1464305.811	597820.965
SU5-41D-033	Thorium-232	2.10	0.780	0.050	03/28/2006			1464305.811	597820.965
SU5-41D-033	Uranium-235	3.20	0.900	0.900	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-033	Uranium-238	2.20	1.600	1.600	03/28/2006	U	UJ	1464305.811	597820.965
SU5-41D-034	Actinium-227	4.60	0.490	0.490	03/28/2006	U	U	1464320.811	597820.965
SU5-41D-034	Actinium-228	1.93	0.440	0.440	03/28/2006	U	U	1464320.811	597820.965
SU5-41D-034	Americium-241	63.00	0.840	0.180	03/28/2006			1464320.811	597820.965
SU5-41D-034	Bismuth-207	1.20	0.070	0.070	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Bismuth-210M	8.30	0.089	0.089	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Bismuth-214	1.17	0.700	0.340	03/28/2006			1464320.811	597820.965
SU5-41D-034	Cesium-137	3.80	0.110	0.110	03/28/2006	U	U	1464320.811	597820.965
SU5-41D-034	Cobalt-60	0.70	0.098	0.098	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Lead-210	7.40	2.200	2.200	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Lead-212	16.60	0.492	0.140	03/28/2006			1464320.811	597820.965
SU5-41D-034	Plutonium-238	55.00	48.700	0.060	03/28/2006			1464320.811	597820.965
SU5-41D-034	Plutonium-239/240	62.00	0.420	0.020	03/28/2006			1464320.811	597820.965
SU5-41D-034	Potassium-40	47.80	11.400	0.800	03/28/2006			1464320.811	597820.965
SU5-41D-034	Protactinium-231	4.00	1.600	1.600	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Radium-226	2.90	0.700	0.340	03/28/2006		J	1464320.811	597820.965
SU5-41D-034	Thorium-228	2.60	0.570	0.090	03/28/2006			1464320.811	597820.965
SU5-41D-034	Thorium-229	18.90	0.920	0.920	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Thorium-230	2.80	0.940	0.050	03/28/2006			1464320.811	597820.965
SU5-41D-034	Thorium-232	2.10	0.290	0.050	03/28/2006			1464320.811	597820.965
SU5-41D-034	Uranium-235	3.20	0.860	0.860	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-034	Uranium-238	2.20	1.600	1.600	03/28/2006	U	UJ	1464320.811	597820.965
SU5-41D-035A	Actinium-227	4.60	0.410	0.410	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Actinium-228	1.93	0.780	0.380	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Americium-241	63.00	0.170	0.170	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Bismuth-207	1.20	0.061	0.061	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Bismuth-210M	8.30	0.087	0.087	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Bismuth-214	1.17	1.080	0.170	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Cesium-137	3.80	0.095	0.095	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Cobalt-60	0.70	0.110	0.110	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Lead-210	7.40	2.200	2.200	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Lead-212	16.60	1.210	0.120	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Plutonium-238	55.00	1.450	0.080	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Plutonium-239/240	62.00	0.050	0.050	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Potassium-40	47.80	21.500	1.000	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Protactinium-231	4.00	1.700	1.700	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Radium-226	2.90	1.080	0.170	04/04/2006		J	1464335.811	597820.965
SU5-41D-035A	Thorium-228	2.60	1.040	0.060	04/04/2006			1464335.811	597820.965

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-035A	Thorium-229	18.90	0.890	0.890	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Thorium-230	2.80	1.220	0.030	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Thorium-232	2.10	0.880	0.030	04/04/2006			1464335.811	597820.965
SU5-41D-035A	Uranium-235	3.20	0.920	0.920	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-035A	Uranium-238	2.20	1.600	1.600	04/04/2006	U	UJ	1464335.811	597820.965
SU5-41D-036	Actinium-227	4.60	0.400	0.400	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Actinium-228	1.93	0.750	0.280	03/28/2006			1464350.811	597820.965
SU5-41D-036	Americium-241	63.00	0.170	0.170	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Bismuth-207	1.20	0.071	0.071	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Bismuth-210M	8.30	0.089	0.089	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Bismuth-214	1.17	0.950	0.150	03/28/2006			1464350.811	597820.965
SU5-41D-036	Cesium-137	3.80	0.278	0.091	03/28/2006			1464350.811	597820.965
SU5-41D-036	Cobalt-60	0.70	0.084	0.084	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Lead-210	7.40	2.600	2.400	03/28/2006			1464350.811	597820.965
SU5-41D-036	Lead-212	16.60	0.590	0.140	03/28/2006			1464350.811	597820.965
SU5-41D-036	Plutonium-238	55.00	2.920	0.050	03/28/2006			1464350.811	597820.965
SU5-41D-036	Plutonium-239/240	62.00	0.039	0.039	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Potassium-40	47.80	13.500	0.800	03/28/2006			1464350.811	597820.965
SU5-41D-036	Protactinium-231	4.00	2.000	2.000	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Radium-226	2.90	0.950	0.150	03/28/2006		J	1464350.811	597820.965
SU5-41D-036	Thorium-228	2.60	0.600	0.070	03/28/2006			1464350.811	597820.965
SU5-41D-036	Thorium-229	18.90	0.840	0.840	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Thorium-230	2.80	1.160	0.030	03/28/2006			1464350.811	597820.965
SU5-41D-036	Thorium-232	2.10	0.600	0.040	03/28/2006			1464350.811	597820.965
SU5-41D-036	Uranium-235	3.20	0.890	0.890	03/28/2006	U	UJ	1464350.811	597820.965
SU5-41D-036	Uranium-238	2.20	1.600	1.600	03/28/2006	U	U	1464350.811	597820.965
SU5-41D-037	Actinium-227	4.60	0.310	0.310	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Actinium-228	1.93	0.420	0.410	03/22/2006			1464283.311	597833.955
SU5-41D-037	Americium-241	63.00	0.130	0.130	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Bismuth-207	1.20	0.054	0.054	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Bismuth-210M	8.30	0.072	0.072	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Bismuth-214	1.17	0.660	0.120	03/22/2006			1464283.311	597833.955
SU5-41D-037	Cesium-137	3.80	0.080	0.080	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Cobalt-60	0.70	0.073	0.073	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Lead-210	7.40	1.700	1.700	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Lead-212	16.60	0.480	0.076	03/22/2006			1464283.311	597833.955
SU5-41D-037	Plutonium-238	55.00	1.660	0.060	03/22/2006			1464283.311	597833.955
SU5-41D-037	Plutonium-239/240	62.00	0.030	0.030	03/22/2006	U	U	1464283.311	597833.955
SU5-41D-037	Potassium-40	47.80	10.000	0.500	03/22/2006			1464283.311	597833.955
SU5-41D-037	Protactinium-231	4.00	1.400	1.400	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Radium-226	2.90	0.660	0.120	03/22/2006		J	1464283.311	597833.955
SU5-41D-037	Thorium-228	2.60	0.720	0.050	03/22/2006			1464283.311	597833.955
SU5-41D-037	Thorium-229	18.90	0.810	0.810	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Thorium-230	2.80	0.790	0.040	03/22/2006			1464283.311	597833.955
SU5-41D-037	Thorium-232	2.10	0.610	0.020	03/22/2006			1464283.311	597833.955
SU5-41D-037	Uranium-235	3.20	0.780	0.780	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-037	Uranium-238	2.20	1.300	1.300	03/22/2006	U	UJ	1464283.311	597833.955
SU5-41D-038	Actinium-227	4.60	0.640	0.480	03/22/2006			1464298.311	597833.955
SU5-41D-038	Actinium-228	1.93	0.400	0.400	03/22/2006	U	U	1464298.311	597833.955
SU5-41D-038	Americium-241	63.00	0.140	0.140	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Bismuth-207	1.20	0.053	0.053	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Bismuth-210M	8.30	0.081	0.081	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Bismuth-214	1.17	0.610	0.300	03/22/2006			1464298.311	597833.955
SU5-41D-038	Cesium-137	3.80	0.060	0.060	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Cobalt-60	0.70	0.093	0.093	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Lead-210	7.40	2.000	2.000	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Lead-212	16.60	0.520	0.098	03/22/2006			1464298.311	597833.955
SU5-41D-038	Plutonium-238	55.00	0.190	0.110	03/22/2006	J	J	1464298.311	597833.955
SU5-41D-038	Plutonium-239/240	62.00	0.060	0.060	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Potassium-40	47.80	9.800	1.000	03/22/2006			1464298.311	597833.955

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-038	Protactinium-231	4.00	1.700	1.700	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Radium-226	2.90	0.610	0.300	03/22/2006		J	1464298.311	597833.955
SU5-41D-038	Thorium-228	2.60	0.640	0.060	03/22/2006			1464298.311	597833.955
SU5-41D-038	Thorium-229	18.90	0.830	0.830	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Thorium-230	2.80	1.140	0.040	03/22/2006			1464298.311	597833.955
SU5-41D-038	Thorium-232	2.10	0.600	0.040	03/22/2006			1464298.311	597833.955
SU5-41D-038	Uranium-235	3.20	0.850	0.850	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-038	Uranium-238	2.20	1.500	1.500	03/22/2006	U	UJ	1464298.311	597833.955
SU5-41D-039	Actinium-227	4.60	0.320	0.320	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Actinium-228	1.93	0.400	0.400	03/23/2006	U	U	1464313.311	597833.955
SU5-41D-039	Americium-241	63.00	0.130	0.130	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Bismuth-207	1.20	0.060	0.060	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Bismuth-210M	8.30	0.083	0.083	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Bismuth-214	1.17	0.560	0.280	03/23/2006			1464313.311	597833.955
SU5-41D-039	Cesium-137	3.80	0.078	0.078	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Cobalt-60	0.70	0.080	0.080	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Lead-210	7.40	1.700	1.700	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Lead-212	16.60	0.260	0.110	03/23/2006			1464313.311	597833.955
SU5-41D-039	Plutonium-238	55.00	2.130	0.070	03/23/2006			1464313.311	597833.955
SU5-41D-039	Plutonium-239/240	62.00	0.041	0.041	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Potassium-40	47.80	7.700	0.700	03/23/2006			1464313.311	597833.955
SU5-41D-039	Protactinium-231	4.00	1.300	1.300	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Radium-226	2.90	0.560	0.280	03/23/2006		J	1464313.311	597833.955
SU5-41D-039	Thorium-228	2.60	0.560	0.050	03/23/2006			1464313.311	597833.955
SU5-41D-039	Thorium-229	18.90	0.750	0.750	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Thorium-230	2.80	0.880	0.040	03/23/2006			1464313.311	597833.955
SU5-41D-039	Thorium-232	2.10	0.460	0.040	03/23/2006			1464313.311	597833.955
SU5-41D-039	Uranium-235	3.20	0.770	0.770	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039	Uranium-238	2.20	1.200	1.200	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Actinium-227	4.60	0.280	0.280	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Actinium-228	1.93	0.490	0.190	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Americium-241	63.00	0.099	0.099	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Bismuth-207	1.20	0.055	0.055	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Bismuth-210M	8.30	0.057	0.057	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Bismuth-214	1.17	0.460	0.260	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Cesium-137	3.80	0.073	0.073	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Cobalt-60	0.70	0.080	0.080	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Lead-210	7.40	1.500	1.500	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Lead-212	16.60	0.297	0.100	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Plutonium-238	55.00	1.190	0.090	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Plutonium-239/240	62.00	0.047	0.047	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Potassium-40	47.80	9.700	0.800	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Protactinium-231	4.00	1.400	1.400	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Radium-226	2.90	0.460	0.260	03/23/2006		J	1464313.311	597833.955
SU5-41D-039D	Thorium-228	2.60	0.660	0.050	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Thorium-229	18.90	0.570	0.570	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Thorium-230	2.80	0.680	0.040	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Thorium-232	2.10	0.660	0.020	03/23/2006			1464313.311	597833.955
SU5-41D-039D	Uranium-235	3.20	0.580	0.580	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-039D	Uranium-238	2.20	1.200	1.200	03/23/2006	U	UJ	1464313.311	597833.955
SU5-41D-040	Actinium-227	4.60	0.460	0.460	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Actinium-228	1.93	1.150	0.330	03/22/2006			1464328.311	597833.955
SU5-41D-040	Americium-241	63.00	0.180	0.180	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Bismuth-207	1.20	0.077	0.077	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Bismuth-210M	8.30	0.110	0.110	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Bismuth-214	1.17	0.790	0.390	03/22/2006			1464328.311	597833.955
SU5-41D-040	Cesium-137	3.80	0.140	0.140	03/22/2006	U	U	1464328.311	597833.955
SU5-41D-040	Cobalt-60	0.70	0.090	0.090	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Lead-210	7.40	2.500	2.500	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Lead-212	16.60	0.740	0.170	03/22/2006			1464328.311	597833.955

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-040	Plutonium-238	55.00	5.180	0.080	03/22/2006			1464328.311	597833.955
SU5-41D-040	Plutonium-239/240	62.00	0.096	0.059	03/22/2006	J	J	1464328.311	597833.955
SU5-41D-040	Potassium-40	47.80	20.000	1.200	03/22/2006			1464328.311	597833.955
SU5-41D-040	Protactinium-231	4.00	2.100	2.100	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Radium-226	2.90	0.790	0.390	03/22/2006		J	1464328.311	597833.955
SU5-41D-040	Thorium-228	2.60	0.780	0.070	03/22/2006			1464328.311	597833.955
SU5-41D-040	Thorium-229	18.90	0.990	0.990	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Thorium-230	2.80	1.030	0.040	03/22/2006			1464328.311	597833.955
SU5-41D-040	Thorium-232	2.10	0.850	0.050	03/22/2006			1464328.311	597833.955
SU5-41D-040	Uranium-235	3.20	0.890	0.890	03/22/2006	U	UJ	1464328.311	597833.955
SU5-41D-040	Uranium-238	2.20	1.900	1.900	03/22/2006	U	U	1464328.311	597833.955
SU5-41D-041	Actinium-227	4.60	0.430	0.430	03/23/2006	U	U	1464343.311	597833.955
SU5-41D-041	Actinium-228	1.93	0.300	0.240	03/23/2006		J	1464343.311	597833.955
SU5-41D-041	Americium-241	63.00	0.140	0.140	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Bismuth-207	1.20	0.050	0.050	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Bismuth-210M	8.30	0.074	0.074	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Bismuth-214	1.17	0.420	0.100	03/23/2006			1464343.311	597833.955
SU5-41D-041	Cesium-137	3.80	0.082	0.082	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Cobalt-60	0.70	0.099	0.099	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Lead-210	7.40	1.600	1.600	03/23/2006	U	U	1464343.311	597833.955
SU5-41D-041	Lead-212	16.60	0.448	0.076	03/23/2006			1464343.311	597833.955
SU5-41D-041	Plutonium-238	55.00	23.600	0.080	03/23/2006			1464343.311	597833.955
SU5-41D-041	Plutonium-239/240	62.00	0.159	0.047	03/23/2006	J	J	1464343.311	597833.955
SU5-41D-041	Potassium-40	47.80	8.500	0.700	03/23/2006			1464343.311	597833.955
SU5-41D-041	Protactinium-231	4.00	1.500	1.500	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Radium-226	2.90	0.420	0.100	03/23/2006		J	1464343.311	597833.955
SU5-41D-041	Thorium-228	2.60	0.740	0.070	03/23/2006			1464343.311	597833.955
SU5-41D-041	Thorium-229	18.90	0.780	0.780	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Thorium-230	2.80	1.670	0.050	03/23/2006			1464343.311	597833.955
SU5-41D-041	Thorium-232	2.10	0.680	0.050	03/23/2006			1464343.311	597833.955
SU5-41D-041	Uranium-235	3.20	0.750	0.750	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-041	Uranium-238	2.20	1.300	1.300	03/23/2006	U	UJ	1464343.311	597833.955
SU5-41D-042	Actinium-227	4.60	0.460	0.460	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Actinium-228	1.93	0.470	0.310	03/22/2006		J	1464290.811	597846.945
SU5-41D-042	Americium-241	63.00	0.180	0.180	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Bismuth-207	1.20	0.079	0.079	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Bismuth-210M	8.30	0.091	0.091	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Bismuth-214	1.17	0.740	0.140	03/22/2006			1464290.811	597846.945
SU5-41D-042	Cesium-137	3.80	0.120	0.120	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Cobalt-60	0.70	0.110	0.110	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Lead-210	7.40	2.100	2.100	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Lead-212	16.60	0.900	0.110	03/22/2006			1464290.811	597846.945
SU5-41D-042	Plutonium-238	55.00	0.420	0.100	03/22/2006			1464290.811	597846.945
SU5-41D-042	Plutonium-239/240	62.00	0.054	0.054	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Potassium-40	47.80	21.300	1.100	03/22/2006			1464290.811	597846.945
SU5-41D-042	Protactinium-231	4.00	2.000	2.000	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Radium-226	2.90	0.740	0.140	03/22/2006		J	1464290.811	597846.945
SU5-41D-042	Thorium-228	2.60	0.850	0.050	03/22/2006			1464290.811	597846.945
SU5-41D-042	Thorium-229	18.90	0.980	0.980	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Thorium-230	2.80	0.850	0.050	03/22/2006			1464290.811	597846.945
SU5-41D-042	Thorium-232	2.10	0.980	0.030	03/22/2006			1464290.811	597846.945
SU5-41D-042	Uranium-235	3.20	0.980	0.980	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-042	Uranium-238	2.20	1.800	1.800	03/22/2006	U	UJ	1464290.811	597846.945
SU5-41D-043	Actinium-227	4.60	0.370	0.370	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Actinium-228	1.93	0.920	0.370	03/23/2006			1464305.811	597846.945
SU5-41D-043	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Bismuth-207	1.20	0.067	0.067	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Bismuth-210M	8.30	0.100	0.100	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Bismuth-214	1.17	0.730	0.360	03/23/2006			1464305.811	597846.945
SU5-41D-043	Cesium-137	3.80	0.110	0.110	03/23/2006	U	UJ	1464305.811	597846.945

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-043	Cobalt-60	0.70	0.120	0.120	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Lead-210	7.40	2.200	2.200	03/23/2006	U	U	1464305.811	597846.945
SU5-41D-043	Lead-212	16.60	0.880	0.150	03/23/2006			1464305.811	597846.945
SU5-41D-043	Plutonium-238	55.00	10.400	0.100	03/23/2006			1464305.811	597846.945
SU5-41D-043	Plutonium-239/240	62.00	0.092	0.052	03/23/2006	J	J	1464305.811	597846.945
SU5-41D-043	Potassium-40	47.80	25.000	0.800	03/23/2006			1464305.811	597846.945
SU5-41D-043	Protactinium-231	4.00	1.800	1.800	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Radium-226	2.90	0.730	0.360	03/23/2006		J	1464305.811	597846.945
SU5-41D-043	Thorium-228	2.60	0.980	0.060	03/23/2006			1464305.811	597846.945
SU5-41D-043	Thorium-229	18.90	0.890	0.890	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Thorium-230	2.80	0.870	0.030	03/23/2006			1464305.811	597846.945
SU5-41D-043	Thorium-232	2.10	1.040	0.060	03/23/2006			1464305.811	597846.945
SU5-41D-043	Uranium-235	3.20	0.910	0.910	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-043	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464305.811	597846.945
SU5-41D-044A	Actinium-227	4.60	0.550	0.550	04/04/2006	U	U	1464320.811	597846.945
SU5-41D-044A	Actinium-228	1.93	1.010	0.390	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Americium-241	63.00	0.210	0.210	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Bismuth-207	1.20	0.087	0.087	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Bismuth-210M	8.30	0.120	0.120	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Bismuth-214	1.17	0.580	0.400	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Cesium-137	3.80	0.120	0.120	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Cobalt-60	0.70	0.110	0.110	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Lead-210	7.40	2.800	2.800	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Lead-212	16.60	0.830	0.200	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Plutonium-238	55.00	8.400	0.100	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Plutonium-239/240	62.00	0.066	0.059	04/04/2006	J	J	1464320.811	597846.945
SU5-41D-044A	Potassium-40	47.80	25.200	1.000	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Protactinium-231	4.00	1.900	1.900	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Radium-226	2.90	0.580	0.400	04/04/2006		J	1464320.811	597846.945
SU5-41D-044A	Thorium-228	2.60	1.050	0.070	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Thorium-229	18.90	1.200	1.200	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Thorium-230	2.80	0.680	0.050	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Thorium-232	2.10	0.830	0.050	04/04/2006			1464320.811	597846.945
SU5-41D-044A	Uranium-235	3.20	1.100	1.100	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-044A	Uranium-238	2.20	2.100	2.100	04/04/2006	U	UJ	1464320.811	597846.945
SU5-41D-045	Actinium-227	4.60	0.300	0.300	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Actinium-228	1.93	0.410	0.410	03/23/2006	U	U	1464335.811	597846.945
SU5-41D-045	Americium-241	63.00	0.130	0.130	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Bismuth-207	1.20	0.046	0.046	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Bismuth-210M	8.30	0.065	0.065	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Bismuth-214	1.17	0.520	0.280	03/23/2006			1464335.811	597846.945
SU5-41D-045	Cesium-137	3.80	0.075	0.075	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Cobalt-60	0.70	0.065	0.065	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Lead-210	7.40	1.900	1.900	03/23/2006	U	U	1464335.811	597846.945
SU5-41D-045	Lead-212	16.60	0.356	0.080	03/23/2006			1464335.811	597846.945
SU5-41D-045	Plutonium-238	55.00	20.300	0.070	03/23/2006			1464335.811	597846.945
SU5-41D-045	Plutonium-239/240	62.00	0.061	0.057	03/23/2006	J	J	1464335.811	597846.945
SU5-41D-045	Potassium-40	47.80	6.300	0.600	03/23/2006			1464335.811	597846.945
SU5-41D-045	Protactinium-231	4.00	1.400	1.400	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Radium-226	2.90	0.520	0.280	03/23/2006		J	1464335.811	597846.945
SU5-41D-045	Thorium-228	2.60	0.400	0.070	03/23/2006			1464335.811	597846.945
SU5-41D-045	Thorium-229	18.90	0.790	0.790	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Thorium-230	2.80	0.890	0.050	03/23/2006			1464335.811	597846.945
SU5-41D-045	Thorium-232	2.10	0.520	0.050	03/23/2006			1464335.811	597846.945
SU5-41D-045	Uranium-235	3.20	0.670	0.670	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-045	Uranium-238	2.20	1.300	1.300	03/23/2006	U	UJ	1464335.811	597846.945
SU5-41D-046	Actinium-227	4.60	0.400	0.400	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Actinium-228	1.93	0.750	0.320	03/22/2006			1464283.311	597859.936
SU5-41D-046	Americium-241	63.00	0.140	0.140	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Bismuth-207	1.20	0.077	0.077	03/22/2006	U	UJ	1464283.311	597859.936

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-046	Bismuth-210M	8.30	0.086	0.086	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Bismuth-214	1.17	0.660	0.340	03/22/2006			1464283.311	597859.936
SU5-41D-046	Cesium-137	3.80	0.120	0.120	03/22/2006	U	U	1464283.311	597859.936
SU5-41D-046	Cobalt-60	0.70	0.110	0.110	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Lead-210	7.40	2.000	2.000	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Lead-212	16.60	0.680	0.140	03/22/2006			1464283.311	597859.936
SU5-41D-046	Plutonium-238	55.00	0.990	0.070	03/22/2006			1464283.311	597859.936
SU5-41D-046	Plutonium-239/240	62.00	0.048	0.048	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Potassium-40	47.80	20.700	0.700	03/22/2006			1464283.311	597859.936
SU5-41D-046	Protactinium-231	4.00	1.500	1.500	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Radium-226	2.90	0.660	0.340	03/22/2006		J	1464283.311	597859.936
SU5-41D-046	Thorium-228	2.60	0.850	0.070	03/22/2006			1464283.311	597859.936
SU5-41D-046	Thorium-229	18.90	0.870	0.870	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Thorium-230	2.80	0.900	0.050	03/22/2006			1464283.311	597859.936
SU5-41D-046	Thorium-232	2.10	0.860	0.050	03/22/2006			1464283.311	597859.936
SU5-41D-046	Uranium-235	3.20	0.880	0.880	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-046	Uranium-238	2.20	1.700	1.700	03/22/2006	U	UJ	1464283.311	597859.936
SU5-41D-047	Actinium-227	4.60	0.460	0.460	03/22/2006	U	U	1464298.311	597859.936
SU5-41D-047	Actinium-228	1.93	0.400	0.250	03/22/2006		J	1464298.311	597859.936
SU5-41D-047	Americium-241	63.00	0.160	0.160	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Bismuth-207	1.20	0.077	0.077	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Bismuth-210M	8.30	0.088	0.088	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Bismuth-214	1.17	0.650	0.370	03/22/2006			1464298.311	597859.936
SU5-41D-047	Cesium-137	3.80	0.096	0.096	03/22/2006	U	U	1464298.311	597859.936
SU5-41D-047	Cobalt-60	0.70	0.090	0.090	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Lead-210	7.40	2.200	2.200	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Lead-212	16.60	0.610	0.120	03/22/2006			1464298.311	597859.936
SU5-41D-047	Plutonium-238	55.00	0.174	0.092	03/22/2006	J	J	1464298.311	597859.936
SU5-41D-047	Plutonium-239/240	62.00	0.055	0.055	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Potassium-40	47.80	17.400	0.200	03/22/2006			1464298.311	597859.936
SU5-41D-047	Protactinium-231	4.00	1.900	1.900	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Radium-226	2.90	0.650	0.370	03/22/2006		J	1464298.311	597859.936
SU5-41D-047	Thorium-228	2.60	0.730	0.050	03/22/2006			1464298.311	597859.936
SU5-41D-047	Thorium-229	18.90	1.000	1.000	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Thorium-230	2.80	0.780	0.040	03/22/2006			1464298.311	597859.936
SU5-41D-047	Thorium-232	2.10	0.650	0.050	03/22/2006			1464298.311	597859.936
SU5-41D-047	Uranium-235	3.20	0.810	0.810	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-047	Uranium-238	2.20	1.700	1.700	03/22/2006	U	UJ	1464298.311	597859.936
SU5-41D-048	Actinium-227	4.60	1.210	0.690	03/22/2006			1464313.311	597859.936
SU5-41D-048	Actinium-228	1.93	0.750	0.310	03/22/2006		J	1464313.311	597859.936
SU5-41D-048	Americium-241	63.00	0.204	0.190	03/22/2006			1464313.311	597859.936
SU5-41D-048	Bismuth-207	1.20	0.088	0.088	03/22/2006	U	UJ	1464313.311	597859.936
SU5-41D-048	Bismuth-210M	8.30	0.110	0.110	03/22/2006	U	UJ	1464313.311	597859.936
SU5-41D-048	Bismuth-214	1.17	0.780	0.380	03/22/2006			1464313.311	597859.936
SU5-41D-048	Cesium-137	3.80	0.128	0.100	03/22/2006	J	J	1464313.311	597859.936
SU5-41D-048	Cobalt-60	0.70	0.130	0.130	03/22/2006	U	UJ	1464313.311	597859.936
SU5-41D-048	Lead-210	7.40	2.500	2.500	03/22/2006	U	UJ	1464313.311	597859.936
SU5-41D-048	Lead-212	16.60	0.830	0.130	03/22/2006			1464313.311	597859.936
SU5-41D-048	Plutonium-238	55.00	43.700	0.090	03/22/2006			1464313.311	597859.936
SU5-41D-048	Plutonium-239/240	62.00	0.480	0.020	03/22/2006			1464313.311	597859.936
SU5-41D-048	Potassium-40	47.80	19.700	0.700	03/22/2006			1464313.311	597859.936
SU5-41D-048	Protactinium-231	4.00	2.100	2.100	03/22/2006	U	U	1464313.311	597859.936
SU5-41D-048	Radium-226	2.90	0.780	0.380	03/22/2006		J	1464313.311	597859.936
SU5-41D-048	Thorium-228	2.60	0.990	0.060	03/22/2006			1464313.311	597859.936
SU5-41D-048	Thorium-229	18.90	1.100	1.100	03/22/2006	U	UJ	1464313.311	597859.936
SU5-41D-048	Thorium-230	2.80	0.950	0.050	03/22/2006			1464313.311	597859.936
SU5-41D-048	Thorium-232	2.10	1.000	0.040	03/22/2006			1464313.311	597859.936
SU5-41D-048	Uranium-235	3.20	0.940	0.940	03/22/2006	U	UJ	1464313.311	597859.936
SU5-41D-048	Uranium-238	2.20	2.000	2.000	03/22/2006	U	U	1464313.311	597859.936
SU5-41D-049	Actinium-227	4.60	0.430	0.430	03/23/2006	U	UJ	1464328.311	597859.936

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-049	Actinium-228	1.93	0.840	0.310	03/23/2006			1464328.311	597859.936
SU5-41D-049	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Bismuth-207	1.20	0.073	0.073	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Bismuth-210M	8.30	0.095	0.095	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Bismuth-214	1.17	0.820	0.160	03/23/2006			1464328.311	597859.936
SU5-41D-049	Cesium-137	3.80	0.130	0.130	03/23/2006	U	U	1464328.311	597859.936
SU5-41D-049	Cobalt-60	0.70	0.120	0.120	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Lead-210	7.40	2.100	2.100	03/23/2006	U	U	1464328.311	597859.936
SU5-41D-049	Lead-212	16.60	0.880	0.140	03/23/2006			1464328.311	597859.936
SU5-41D-049	Plutonium-238	55.00	1.480	0.100	03/23/2006			1464328.311	597859.936
SU5-41D-049	Plutonium-239/240	62.00	0.073	0.073	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Potassium-40	47.80	23.600	0.900	03/23/2006			1464328.311	597859.936
SU5-41D-049	Protactinium-231	4.00	1.700	1.700	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Radium-226	2.90	0.820	0.160	03/23/2006		J	1464328.311	597859.936
SU5-41D-049	Thorium-228	2.60	0.780	0.050	03/23/2006			1464328.311	597859.936
SU5-41D-049	Thorium-229	18.90	0.900	0.900	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Thorium-230	2.80	1.010	0.040	03/23/2006			1464328.311	597859.936
SU5-41D-049	Thorium-232	2.10	0.830	0.050	03/23/2006			1464328.311	597859.936
SU5-41D-049	Uranium-235	3.20	0.770	0.770	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049	Uranium-238	2.20	1.800	1.800	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Actinium-227	4.60	0.520	0.520	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Actinium-228	1.93	0.880	0.420	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Americium-241	63.00	0.200	0.200	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Bismuth-207	1.20	0.100	0.100	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Bismuth-210M	8.30	0.130	0.130	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Bismuth-214	1.17	0.910	0.460	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Cesium-137	3.80	0.150	0.150	03/23/2006	U	U	1464328.311	597859.936
SU5-41D-049D	Cobalt-60	0.70	0.082	0.082	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Lead-210	7.40	2.800	2.800	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Lead-212	16.60	0.850	0.180	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Plutonium-238	55.00	0.920	0.070	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Plutonium-239/240	62.00	0.043	0.043	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Potassium-40	47.80	22.600	0.800	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Protactinium-231	4.00	2.300	2.300	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Radium-226	2.90	0.910	0.460	03/23/2006		J	1464328.311	597859.936
SU5-41D-049D	Thorium-228	2.60	0.950	0.050	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Thorium-230	2.80	0.860	0.050	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Thorium-232	2.10	0.740	0.040	03/23/2006			1464328.311	597859.936
SU5-41D-049D	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-049D	Uranium-238	2.20	2.000	2.000	03/23/2006	U	UJ	1464328.311	597859.936
SU5-41D-050	Actinium-227	4.60	1.190	0.650	03/23/2006			1464343.311	597859.936
SU5-41D-050	Actinium-228	1.93	1.120	0.400	03/23/2006			1464343.311	597859.936
SU5-41D-050	Americium-241	63.00	0.190	0.190	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-050	Bismuth-207	1.20	0.073	0.073	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-050	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-050	Bismuth-214	1.17	0.720	0.340	03/23/2006			1464343.311	597859.936
SU5-41D-050	Cesium-137	3.80	0.363	0.089	03/23/2006			1464343.311	597859.936
SU5-41D-050	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-050	Lead-210	7.40	2.700	2.700	03/23/2006	U	U	1464343.311	597859.936
SU5-41D-050	Lead-212	16.60	1.010	0.170	03/23/2006			1464343.311	597859.936
SU5-41D-050	Plutonium-238	55.00	4.790	0.090	03/23/2006			1464343.311	597859.936
SU5-41D-050	Plutonium-239/240	62.00	0.095	0.049	03/23/2006	J	J	1464343.311	597859.936
SU5-41D-050	Potassium-40	47.80	14.300	1.000	03/23/2006			1464343.311	597859.936
SU5-41D-050	Protactinium-231	4.00	2.200	2.200	03/23/2006	U	U	1464343.311	597859.936
SU5-41D-050	Radium-226	2.90	0.720	0.340	03/23/2006		J	1464343.311	597859.936
SU5-41D-050	Thorium-228	2.60	1.250	0.070	03/23/2006			1464343.311	597859.936
SU5-41D-050	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-050	Thorium-230	2.80	1.340	0.050	03/23/2006			1464343.311	597859.936
SU5-41D-050	Thorium-232	2.10	1.340	0.040	03/23/2006			1464343.311	597859.936

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-050	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-050	Uranium-238	2.20	1.900	1.900	03/23/2006	U	UJ	1464343.311	597859.936
SU5-41D-051	Actinium-227	4.60	0.390	0.390	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Actinium-228	1.93	0.530	0.280	03/22/2006		J	1464290.811	597872.926
SU5-41D-051	Americium-241	63.00	0.160	0.160	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Bismuth-207	1.20	0.058	0.058	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Bismuth-210M	8.30	0.095	0.095	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Bismuth-214	1.17	0.510	0.160	03/22/2006			1464290.811	597872.926
SU5-41D-051	Cesium-137	3.80	0.096	0.096	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Cobalt-60	0.70	0.082	0.082	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Lead-210	7.40	2.000	2.000	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Lead-212	16.60	0.630	0.100	03/22/2006			1464290.811	597872.926
SU5-41D-051	Plutonium-238	55.00	0.320	0.090	03/22/2006			1464290.811	597872.926
SU5-41D-051	Plutonium-239/240	62.00	0.076	0.076	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Potassium-40	47.80	18.100	0.800	03/22/2006			1464290.811	597872.926
SU5-41D-051	Protactinium-231	4.00	1.700	1.700	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Radium-226	2.90	0.510	0.160	03/22/2006		J	1464290.811	597872.926
SU5-41D-051	Thorium-228	2.60	0.980	0.060	03/22/2006			1464290.811	597872.926
SU5-41D-051	Thorium-229	18.90	0.980	0.980	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Thorium-230	2.80	1.130	0.030	03/22/2006			1464290.811	597872.926
SU5-41D-051	Thorium-232	2.10	0.880	0.040	03/22/2006			1464290.811	597872.926
SU5-41D-051	Uranium-235	3.20	0.900	0.900	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-051	Uranium-238	2.20	1.600	1.600	03/22/2006	U	UJ	1464290.811	597872.926
SU5-41D-052	Actinium-227	4.60	0.420	0.420	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Actinium-228	1.93	0.910	0.630	03/22/2006			1464305.811	597872.926
SU5-41D-052	Americium-241	63.00	0.170	0.170	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Bismuth-207	1.20	0.072	0.072	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Bismuth-210M	8.30	0.092	0.092	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Bismuth-214	1.17	0.780	0.150	03/22/2006			1464305.811	597872.926
SU5-41D-052	Cesium-137	3.80	0.110	0.110	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Cobalt-60	0.70	0.120	0.120	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Lead-210	7.40	2.100	2.100	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Lead-212	16.60	0.810	0.150	03/22/2006			1464305.811	597872.926
SU5-41D-052	Plutonium-238	55.00	0.114	0.062	03/22/2006	J	J	1464305.811	597872.926
SU5-41D-052	Plutonium-239/240	62.00	0.052	0.052	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Potassium-40	47.80	22.200	1.000	03/22/2006			1464305.811	597872.926
SU5-41D-052	Protactinium-231	4.00	1.700	1.700	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Radium-226	2.90	0.780	0.150	03/22/2006		J	1464305.811	597872.926
SU5-41D-052	Thorium-228	2.60	0.850	0.050	03/22/2006			1464305.811	597872.926
SU5-41D-052	Thorium-229	18.90	1.000	1.000	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Thorium-230	2.80	1.020	0.040	03/22/2006			1464305.811	597872.926
SU5-41D-052	Thorium-232	2.10	0.810	0.040	03/22/2006			1464305.811	597872.926
SU5-41D-052	Uranium-235	3.20	0.950	0.950	03/22/2006	U	UJ	1464305.811	597872.926
SU5-41D-052	Uranium-238	2.20	1.800	1.800	03/22/2006	U	U	1464305.811	597872.926
SU5-41D-053	Actinium-227	4.60	0.440	0.440	03/23/2006	U	U	1464320.811	597872.926
SU5-41D-053	Actinium-228	1.93	0.730	0.300	03/23/2006		J	1464320.811	597872.926
SU5-41D-053	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Bismuth-207	1.20	0.078	0.078	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Bismuth-210M	8.30	0.099	0.099	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Bismuth-214	1.17	0.610	0.340	03/23/2006			1464320.811	597872.926
SU5-41D-053	Cesium-137	3.80	0.174	0.110	03/23/2006	J	J	1464320.811	597872.926
SU5-41D-053	Cobalt-60	0.70	0.094	0.094	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Lead-210	7.40	2.300	2.300	03/23/2006	U	U	1464320.811	597872.926
SU5-41D-053	Lead-212	16.60	0.930	0.150	03/23/2006			1464320.811	597872.926
SU5-41D-053	Plutonium-238	55.00	3.180	0.090	03/23/2006			1464320.811	597872.926
SU5-41D-053	Plutonium-239/240	62.00	0.070	0.056	03/23/2006	J	J	1464320.811	597872.926
SU5-41D-053	Potassium-40	47.80	23.400	1.200	03/23/2006			1464320.811	597872.926
SU5-41D-053	Protactinium-231	4.00	1.800	1.800	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Radium-226	2.90	0.610	0.340	03/23/2006		J	1464320.811	597872.926
SU5-41D-053	Thorium-228	2.60	0.840	0.080	03/23/2006			1464320.811	597872.926

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-053	Thorium-229	18.90	1.000	1.000	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Thorium-230	2.80	0.720	0.070	03/23/2006			1464320.811	597872.926
SU5-41D-053	Thorium-232	2.10	0.810	0.060	03/23/2006			1464320.811	597872.926
SU5-41D-053	Uranium-235	3.20	0.890	0.890	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-053	Uranium-238	2.20	1.600	1.600	03/23/2006	U	UJ	1464320.811	597872.926
SU5-41D-054	Actinium-227	4.60	0.470	0.470	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Actinium-228	1.93	0.740	0.300	03/23/2006		J	1464335.811	597872.926
SU5-41D-054	Americium-241	63.00	0.190	0.190	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Bismuth-207	1.20	0.090	0.090	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Bismuth-214	1.17	0.710	0.180	03/23/2006			1464335.811	597872.926
SU5-41D-054	Cesium-137	3.80	0.120	0.120	03/23/2006	U	U	1464335.811	597872.926
SU5-41D-054	Cobalt-60	0.70	0.140	0.140	03/23/2006	U	U	1464335.811	597872.926
SU5-41D-054	Lead-210	7.40	2.500	2.500	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Lead-212	16.60	0.800	0.170	03/23/2006			1464335.811	597872.926
SU5-41D-054	Plutonium-238	55.00	2.500	0.080	03/23/2006			1464335.811	597872.926
SU5-41D-054	Plutonium-239/240	62.00	0.045	0.045	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Potassium-40	47.80	18.700	1.100	03/23/2006			1464335.811	597872.926
SU5-41D-054	Protactinium-231	4.00	2.000	2.000	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Radium-226	2.90	0.710	0.180	03/23/2006		J	1464335.811	597872.926
SU5-41D-054	Thorium-228	2.60	1.090	0.080	03/23/2006			1464335.811	597872.926
SU5-41D-054	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Thorium-230	2.80	1.550	0.050	03/23/2006			1464335.811	597872.926
SU5-41D-054	Thorium-232	2.10	0.940	0.040	03/23/2006			1464335.811	597872.926
SU5-41D-054	Uranium-235	3.20	0.960	0.960	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-054	Uranium-238	2.20	1.900	1.900	03/23/2006	U	UJ	1464335.811	597872.926
SU5-41D-055	Actinium-227	4.60	0.430	0.430	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Actinium-228	1.93	0.850	0.280	03/22/2006			1464298.311	597885.917
SU5-41D-055	Americium-241	63.00	0.170	0.170	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Bismuth-207	1.20	0.079	0.079	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Bismuth-210M	8.30	0.100	0.100	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Bismuth-214	1.17	0.760	0.110	03/22/2006			1464298.311	597885.917
SU5-41D-055	Cesium-137	3.80	0.110	0.110	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Cobalt-60	0.70	0.140	0.140	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Lead-210	7.40	2.300	2.300	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Lead-212	16.60	0.600	0.160	03/22/2006			1464298.311	597885.917
SU5-41D-055	Plutonium-238	55.00	0.290	0.050	03/22/2006			1464298.311	597885.917
SU5-41D-055	Plutonium-239/240	62.00	0.039	0.039	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Potassium-40	47.80	16.900	0.900	03/22/2006			1464298.311	597885.917
SU5-41D-055	Protactinium-231	4.00	2.000	2.000	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Radium-226	2.90	0.760	0.110	03/22/2006		J	1464298.311	597885.917
SU5-41D-055	Thorium-228	2.60	0.720	0.080	03/22/2006			1464298.311	597885.917
SU5-41D-055	Thorium-229	18.90	0.920	0.920	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Thorium-230	2.80	0.700	0.050	03/22/2006			1464298.311	597885.917
SU5-41D-055	Thorium-232	2.10	0.820	0.050	03/22/2006			1464298.311	597885.917
SU5-41D-055	Uranium-235	3.20	0.890	0.890	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055	Uranium-238	2.20	1.800	1.800	03/22/2006	U	U	1464298.311	597885.917
SU5-41D-055D	Actinium-227	4.60	0.340	0.340	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Actinium-228	1.93	0.710	0.290	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Americium-241	63.00	0.160	0.160	03/22/2006	U	U	1464298.311	597885.917
SU5-41D-055D	Bismuth-207	1.20	0.060	0.060	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Bismuth-210M	8.30	0.081	0.081	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Bismuth-214	1.17	0.900	0.370	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Cesium-137	3.80	0.120	0.120	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Cobalt-60	0.70	0.110	0.110	03/22/2006	U	U	1464298.311	597885.917
SU5-41D-055D	Lead-210	7.40	2.000	2.000	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Lead-212	16.60	0.730	0.150	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Plutonium-238	55.00	0.222	0.047	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Plutonium-239/240	62.00	0.020	0.020	03/22/2006	U	U	1464298.311	597885.917
SU5-41D-055D	Potassium-40	47.80	17.500	0.700	03/22/2006			1464298.311	597885.917

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-055D	Protactinium-231	4.00	1.600	1.600	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Radium-226	2.90	0.900	0.370	03/22/2006		J	1464298.311	597885.917
SU5-41D-055D	Thorium-228	2.60	0.970	0.090	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Thorium-229	18.90	0.870	0.870	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Thorium-230	2.80	1.290	0.050	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Thorium-232	2.10	0.960	0.030	03/22/2006			1464298.311	597885.917
SU5-41D-055D	Uranium-235	3.20	0.810	0.810	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-055D	Uranium-238	2.20	1.500	1.500	03/22/2006	U	UJ	1464298.311	597885.917
SU5-41D-056	Actinium-227	4.60	0.450	0.450	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Actinium-228	1.93	0.610	0.590	03/23/2006			1464313.311	597885.917
SU5-41D-056	Americium-241	63.00	0.180	0.180	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Bismuth-207	1.20	0.076	0.076	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Bismuth-210M	8.30	0.100	0.100	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Bismuth-214	1.17	0.830	0.410	03/23/2006			1464313.311	597885.917
SU5-41D-056	Cesium-137	3.80	0.150	0.150	03/23/2006	U	U	1464313.311	597885.917
SU5-41D-056	Cobalt-60	0.70	0.094	0.094	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Lead-210	7.40	2.500	2.500	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Lead-212	16.60	0.700	0.130	03/23/2006			1464313.311	597885.917
SU5-41D-056	Plutonium-238	55.00	3.300	0.090	03/23/2006			1464313.311	597885.917
SU5-41D-056	Plutonium-239/240	62.00	0.050	0.050	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Potassium-40	47.80	18.800	0.900	03/23/2006			1464313.311	597885.917
SU5-41D-056	Protactinium-231	4.00	2.100	2.100	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Radium-226	2.90	0.830	0.410	03/23/2006		J	1464313.311	597885.917
SU5-41D-056	Thorium-228	2.60	1.110	0.080	03/23/2006			1464313.311	597885.917
SU5-41D-056	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Thorium-230	2.80	1.020	0.060	03/23/2006			1464313.311	597885.917
SU5-41D-056	Thorium-232	2.10	0.880	0.050	03/23/2006			1464313.311	597885.917
SU5-41D-056	Uranium-235	3.20	0.960	0.960	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-056	Uranium-238	2.20	2.000	2.000	03/23/2006	U	UJ	1464313.311	597885.917
SU5-41D-057	Actinium-227	4.60	0.480	0.480	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Actinium-228	1.93	0.550	0.370	03/23/2006		J	1464328.311	597885.917
SU5-41D-057	Americium-241	63.00	0.180	0.180	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Bismuth-207	1.20	0.068	0.068	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Bismuth-210M	8.30	0.100	0.100	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Bismuth-214	1.17	0.540	0.180	03/23/2006			1464328.311	597885.917
SU5-41D-057	Cesium-137	3.80	0.110	0.110	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Cobalt-60	0.70	0.100	0.100	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Lead-210	7.40	2.200	2.200	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Lead-212	16.60	0.610	0.120	03/23/2006			1464328.311	597885.917
SU5-41D-057	Plutonium-238	55.00	0.980	0.090	03/23/2006			1464328.311	597885.917
SU5-41D-057	Plutonium-239/240	62.00	0.049	0.049	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Potassium-40	47.80	16.100	0.900	03/23/2006			1464328.311	597885.917
SU5-41D-057	Protactinium-231	4.00	1.700	1.700	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Radium-226	2.90	0.540	0.180	03/23/2006		J	1464328.311	597885.917
SU5-41D-057	Thorium-228	2.60	0.770	0.100	03/23/2006			1464328.311	597885.917
SU5-41D-057	Thorium-229	18.90	0.930	0.930	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Thorium-230	2.80	0.670	0.060	03/23/2006			1464328.311	597885.917
SU5-41D-057	Thorium-232	2.10	0.730	0.040	03/23/2006			1464328.311	597885.917
SU5-41D-057	Uranium-235	3.20	0.850	0.850	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-057	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464328.311	597885.917
SU5-41D-058	Actinium-227	4.60	0.430	0.430	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Actinium-228	1.93	0.680	0.520	03/22/2006			1464290.811	597898.907
SU5-41D-058	Americium-241	63.00	0.160	0.160	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Bismuth-207	1.20	0.067	0.067	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Bismuth-210M	8.30	0.089	0.089	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Bismuth-214	1.17	0.760	0.150	03/22/2006			1464290.811	597898.907
SU5-41D-058	Cesium-137	3.80	0.088	0.088	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Cobalt-60	0.70	0.110	0.110	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Lead-210	7.40	2.000	2.000	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Lead-212	16.60	0.460	0.180	03/22/2006			1464290.811	597898.907

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-058	Plutonium-238	55.00	0.420	0.080	03/22/2006			1464290.811	597898.907
SU5-41D-058	Plutonium-239/240	62.00	0.061	0.061	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Potassium-40	47.80	14.900	1.000	03/22/2006			1464290.811	597898.907
SU5-41D-058	Protactinium-231	4.00	1.700	1.700	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Radium-226	2.90	0.760	0.150	03/22/2006		J	1464290.811	597898.907
SU5-41D-058	Thorium-228	2.60	0.770	0.090	03/22/2006			1464290.811	597898.907
SU5-41D-058	Thorium-229	18.90	0.990	0.990	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Thorium-230	2.80	0.870	0.060	03/22/2006			1464290.811	597898.907
SU5-41D-058	Thorium-232	2.10	0.720	0.050	03/22/2006			1464290.811	597898.907
SU5-41D-058	Uranium-235	3.20	0.850	0.850	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-058	Uranium-238	2.20	1.700	1.700	03/22/2006	U	UJ	1464290.811	597898.907
SU5-41D-059	Actinium-227	4.60	0.340	0.340	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Actinium-228	1.93	0.500	0.250	03/22/2006		J	1464305.811	597898.907
SU5-41D-059	Americium-241	63.00	0.890	0.130	03/22/2006			1464305.811	597898.907
SU5-41D-059	Bismuth-207	1.20	0.059	0.059	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Bismuth-210M	8.30	0.076	0.076	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Bismuth-214	1.17	0.690	0.140	03/22/2006			1464305.811	597898.907
SU5-41D-059	Cesium-137	3.80	0.084	0.069	03/22/2006	J	J	1464305.811	597898.907
SU5-41D-059	Cobalt-60	0.70	0.077	0.077	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Lead-210	7.40	1.700	1.700	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Lead-212	16.60	0.510	0.110	03/22/2006			1464305.811	597898.907
SU5-41D-059	**Plutonium-238**	**55.00**	**129.000**	**2.000**	**03/22/2006**			**1464305.811**	**597898.907**
SU5-41D-059	Plutonium-239/240	62.00	2.000	1.200	03/22/2006	J	J	1464305.811	597898.907
SU5-41D-059	Potassium-40	47.80	12.100	0.400	03/22/2006			1464305.811	597898.907
SU5-41D-059	Protactinium-231	4.00	1.300	1.300	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Radium-226	2.90	0.690	0.140	03/22/2006		J	1464305.811	597898.907
SU5-41D-059	Thorium-228	2.60	0.780	0.070	03/22/2006			1464305.811	597898.907
SU5-41D-059	Thorium-229	18.90	0.730	0.730	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Thorium-230	2.80	0.990	0.030	03/22/2006			1464305.811	597898.907
SU5-41D-059	Thorium-232	2.10	0.670	0.030	03/22/2006			1464305.811	597898.907
SU5-41D-059	Uranium-235	3.20	0.750	0.750	03/22/2006	U	UJ	1464305.811	597898.907
SU5-41D-059	Uranium-238	2.20	1.400	1.400	03/22/2006	U	U	1464305.811	597898.907
SU5-41D-060	Actinium-227	4.60	0.520	0.520	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Actinium-228	1.93	0.820	0.340	03/23/2006		J	1464320.811	597898.907
SU5-41D-060	Americium-241	63.00	0.180	0.180	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Bismuth-207	1.20	0.090	0.090	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Bismuth-210M	8.30	0.097	0.097	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Bismuth-214	1.17	0.720	0.400	03/23/2006			1464320.811	597898.907
SU5-41D-060	Cesium-137	3.80	0.100	0.100	03/23/2006	U	U	1464320.811	597898.907
SU5-41D-060	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Lead-210	7.40	2.900	2.900	03/23/2006	U	U	1464320.811	597898.907
SU5-41D-060	Lead-212	16.60	0.840	0.190	03/23/2006			1464320.811	597898.907
SU5-41D-060	Plutonium-238	55.00	0.500	0.100	03/23/2006			1464320.811	597898.907
SU5-41D-060	Plutonium-239/240	62.00	0.055	0.055	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Potassium-40	47.80	19.500	0.900	03/23/2006			1464320.811	597898.907
SU5-41D-060	Protactinium-231	4.00	2.000	2.000	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Radium-226	2.90	0.720	0.400	03/23/2006		J	1464320.811	597898.907
SU5-41D-060	Thorium-228	2.60	0.830	0.070	03/23/2006			1464320.811	597898.907
SU5-41D-060	Thorium-229	18.90	1.100	1.100	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Thorium-230	2.80	1.060	0.050	03/23/2006			1464320.811	597898.907
SU5-41D-060	Thorium-232	2.10	0.820	0.050	03/23/2006			1464320.811	597898.907
SU5-41D-060	Uranium-235	3.20	1.200	1.200	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-060	Uranium-238	2.20	2.000	2.000	03/23/2006	U	UJ	1464320.811	597898.907
SU5-41D-061	Actinium-227	4.60	0.870	0.570	03/23/2006			1464335.811	597898.907
SU5-41D-061	Actinium-228	1.93	0.780	0.290	03/23/2006			1464335.811	597898.907
SU5-41D-061	Americium-241	63.00	0.180	0.180	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Bismuth-207	1.20	0.071	0.071	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Bismuth-210M	8.30	0.097	0.097	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Bismuth-214	1.17	0.460	0.310	03/23/2006			1464335.811	597898.907
SU5-41D-061	Cesium-137	3.80	0.086	0.086	03/23/2006	U	UJ	1464335.811	597898.907

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-061	Cobalt-60	0.70	0.100	0.100	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Lead-210	7.40	2.300	2.300	03/23/2006	U	U	1464335.811	597898.907
SU5-41D-061	Lead-212	16.60	0.630	0.140	03/23/2006			1464335.811	597898.907
SU5-41D-061	Plutonium-238	55.00	0.097	0.082	03/23/2006	J	J	1464335.811	597898.907
SU5-41D-061	Plutonium-239/240	62.00	0.044	0.044	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Potassium-40	47.80	20.900	0.800	03/23/2006			1464335.811	597898.907
SU5-41D-061	Protactinium-231	4.00	1.900	1.900	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Radium-226	2.90	0.460	0.310	03/23/2006		J	1464335.811	597898.907
SU5-41D-061	Thorium-228	2.60	0.850	0.070	03/23/2006			1464335.811	597898.907
SU5-41D-061	Thorium-229	18.90	0.970	0.970	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Thorium-230	2.80	0.870	0.050	03/23/2006			1464335.811	597898.907
SU5-41D-061	Thorium-232	2.10	0.650	0.030	03/23/2006			1464335.811	597898.907
SU5-41D-061	Uranium-235	3.20	0.940	0.940	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-061	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464335.811	597898.907
SU5-41D-062	Actinium-227	4.60	0.480	0.480	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Actinium-228	1.93	1.120	0.320	03/22/2006			1464298.311	597911.897
SU5-41D-062	Americium-241	63.00	0.220	0.220	03/22/2006	U	U	1464298.311	597911.897
SU5-41D-062	Bismuth-207	1.20	0.085	0.085	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Bismuth-210M	8.30	0.110	0.110	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Bismuth-214	1.17	0.670	0.360	03/22/2006			1464298.311	597911.897
SU5-41D-062	Cesium-137	3.80	0.100	0.100	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Cobalt-60	0.70	0.096	0.096	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Lead-210	7.40	2.200	2.200	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Lead-212	16.60	0.900	0.170	03/22/2006			1464298.311	597911.897
SU5-41D-062	Plutonium-238	55.00	16.300	0.070	03/22/2006			1464298.311	597911.897
SU5-41D-062	Plutonium-239/240	62.00	0.172	0.058	03/22/2006	J	J	1464298.311	597911.897
SU5-41D-062	Potassium-40	47.80	28.200	0.800	03/22/2006			1464298.311	597911.897
SU5-41D-062	Protactinium-231	4.00	1.900	1.900	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Radium-226	2.90	0.670	0.360	03/22/2006		J	1464298.311	597911.897
SU5-41D-062	Thorium-228	2.60	1.130	0.060	03/22/2006			1464298.311	597911.897
SU5-41D-062	Thorium-229	18.90	1.100	1.100	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Thorium-230	2.80	0.900	0.050	03/22/2006			1464298.311	597911.897
SU5-41D-062	Thorium-232	2.10	1.060	0.040	03/22/2006			1464298.311	597911.897
SU5-41D-062	Uranium-235	3.20	1.000	1.000	03/22/2006	U	UJ	1464298.311	597911.897
SU5-41D-062	Uranium-238	2.20	1.900	1.900	03/22/2006	U	U	1464298.311	597911.897
SU5-41D-063	Actinium-227	4.60	0.370	0.370	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Actinium-228	1.93	0.940	0.310	03/23/2006			1464313.311	597911.897
SU5-41D-063	Americium-241	63.00	0.140	0.140	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Bismuth-207	1.20	0.077	0.077	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Bismuth-210M	8.30	0.088	0.088	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Bismuth-214	1.17	0.380	0.290	03/23/2006			1464313.311	597911.897
SU5-41D-063	Cesium-137	3.80	0.106	0.092	03/23/2006	J	J	1464313.311	597911.897
SU5-41D-063	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Lead-210	7.40	1.600	1.600	03/23/2006	U	U	1464313.311	597911.897
SU5-41D-063	Lead-212	16.60	0.760	0.090	03/23/2006			1464313.311	597911.897
SU5-41D-063	Plutonium-238	55.00	3.520	0.080	03/23/2006			1464313.311	597911.897
SU5-41D-063	Plutonium-239/240	62.00	0.087	0.045	03/23/2006	J	J	1464313.311	597911.897
SU5-41D-063	Potassium-40	47.80	14.700	1.000	03/23/2006			1464313.311	597911.897
SU5-41D-063	Protactinium-231	4.00	1.700	1.700	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Radium-226	2.90	0.380	0.290	03/23/2006		J	1464313.311	597911.897
SU5-41D-063	Thorium-228	2.60	1.050	0.050	03/23/2006			1464313.311	597911.897
SU5-41D-063	Thorium-229	18.90	0.850	0.850	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Thorium-230	2.80	1.040	0.050	03/23/2006			1464313.311	597911.897
SU5-41D-063	Thorium-232	2.10	1.040	0.030	03/23/2006			1464313.311	597911.897
SU5-41D-063	Uranium-235	3.20	0.820	0.820	03/23/2006	U	UJ	1464313.311	597911.897
SU5-41D-063	Uranium-238	2.20	1.400	1.400	03/23/2006	U	U	1464313.311	597911.897
SU5-41D-064	Actinium-227	4.60	0.460	0.460	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Actinium-228	1.93	0.600	0.290	03/23/2006		J	1464328.311	597911.897
SU5-41D-064	Americium-241	63.00	0.170	0.170	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Bismuth-207	1.20	0.080	0.080	03/23/2006	U	U	1464328.311	597911.897

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-064	Bismuth-210M	8.30	0.098	0.098	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Bismuth-214	1.17	0.450	0.320	03/23/2006			1464328.311	597911.897
SU5-41D-064	Cesium-137	3.80	0.095	0.095	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Lead-210	7.40	2.100	2.100	03/23/2006	U	U	1464328.311	597911.897
SU5-41D-064	Lead-212	16.60	0.770	0.160	03/23/2006			1464328.311	597911.897
SU5-41D-064	Plutonium-238	55.00	0.250	0.070	03/23/2006			1464328.311	597911.897
SU5-41D-064	Plutonium-239/240	62.00	0.027	0.027	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Potassium-40	47.80	21.000	0.900	03/23/2006			1464328.311	597911.897
SU5-41D-064	Protactinium-231	4.00	1.900	1.900	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Radium-226	2.90	0.450	0.320	03/23/2006		J	1464328.311	597911.897
SU5-41D-064	Thorium-228	2.60	0.790	0.070	03/23/2006			1464328.311	597911.897
SU5-41D-064	Thorium-229	18.90	0.970	0.970	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Thorium-230	2.80	0.840	0.060	03/23/2006			1464328.311	597911.897
SU5-41D-064	Thorium-232	2.10	1.000	0.040	03/23/2006			1464328.311	597911.897
SU5-41D-064	Uranium-235	3.20	0.940	0.940	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-064	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464328.311	597911.897
SU5-41D-065	Actinium-227	4.60	0.270	0.270	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Actinium-228	1.93	0.260	0.260	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Americium-241	63.00	0.100	0.100	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Bismuth-207	1.20	0.043	0.043	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Bismuth-210M	8.30	0.063	0.063	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Bismuth-214	1.17	0.460	0.120	03/23/2006			1464290.811	597924.888
SU5-41D-065	Cesium-137	3.80	0.054	0.054	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Cobalt-60	0.70	0.064	0.064	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Lead-210	7.40	1.500	1.500	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Lead-212	16.60	0.248	0.091	03/23/2006			1464290.811	597924.888
SU5-41D-065	Plutonium-238	55.00	1.970	0.050	03/23/2006			1464290.811	597924.888
SU5-41D-065	Plutonium-239/240	62.00	0.051	0.045	03/23/2006	J	J	1464290.811	597924.888
SU5-41D-065	Potassium-40	47.80	5.200	0.600	03/23/2006			1464290.811	597924.888
SU5-41D-065	Protactinium-231	4.00	1.200	1.200	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Radium-226	2.90	0.460	0.120	03/23/2006		J	1464290.811	597924.888
SU5-41D-065	Thorium-228	2.60	0.240	0.070	03/23/2006			1464290.811	597924.888
SU5-41D-065	Thorium-229	18.90	0.610	0.610	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Thorium-230	2.80	0.630	0.030	03/23/2006			1464290.811	597924.888
SU5-41D-065	Thorium-232	2.10	0.350	0.040	03/23/2006			1464290.811	597924.888
SU5-41D-065	Uranium-235	3.20	0.570	0.570	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-065	Uranium-238	2.20	1.100	1.100	03/23/2006	U	UJ	1464290.811	597924.888
SU5-41D-066	Actinium-227	4.60	1.280	0.720	03/28/2006			1464305.811	597924.888
SU5-41D-066	Actinium-228	1.93	1.140	0.390	03/28/2006		J	1464305.811	597924.888
SU5-41D-066	Americium-241	63.00	0.220	0.220	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Bismuth-207	1.20	0.093	0.093	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Bismuth-210M	8.30	0.120	0.120	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Bismuth-214	1.17	0.760	0.170	03/28/2006			1464305.811	597924.888
SU5-41D-066	Cesium-137	3.80	0.110	0.110	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Cobalt-60	0.70	0.140	0.140	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Lead-210	7.40	2.600	2.600	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Lead-212	16.60	1.110	0.130	03/28/2006			1464305.811	597924.888
SU5-41D-066	Plutonium-238	55.00	2.100	0.050	03/28/2006			1464305.811	597924.888
SU5-41D-066	Plutonium-239/240	62.00	0.047	0.047	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Potassium-40	47.80	30.800	1.000	03/28/2006			1464305.811	597924.888
SU5-41D-066	Protactinium-231	4.00	2.300	2.300	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Radium-226	2.90	0.760	0.170	03/28/2006		J	1464305.811	597924.888
SU5-41D-066	Thorium-228	2.60	1.290	0.040	03/28/2006			1464305.811	597924.888
SU5-41D-066	Thorium-229	18.90	1.200	1.200	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Thorium-230	2.80	1.010	0.040	03/28/2006			1464305.811	597924.888
SU5-41D-066	Thorium-232	2.10	1.060	0.040	03/28/2006			1464305.811	597924.888
SU5-41D-066	Uranium-235	3.20	1.100	1.100	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-066	Uranium-238	2.20	2.200	2.200	03/28/2006	U	UJ	1464305.811	597924.888
SU5-41D-068	Actinium-227	4.60	0.280	0.280	03/22/2006	U	UJ	1464283.311	597937.878

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-068	Actinium-228	1.93	0.330	0.330	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Americium-241	63.00	0.130	0.130	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Bismuth-207	1.20	0.055	0.055	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Bismuth-210M	8.30	0.064	0.064	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Bismuth-214	1.17	0.430	0.230	03/22/2006			1464283.311	597937.878
SU5-41D-068	Cesium-137	3.80	0.072	0.072	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Cobalt-60	0.70	0.052	0.052	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Lead-210	7.40	1.300	1.300	03/22/2006	U	U	1464283.311	597937.878
SU5-41D-068	Lead-212	16.60	0.262	0.097	03/22/2006			1464283.311	597937.878
SU5-41D-068	Plutonium-238	55.00	21.600	0.070	03/22/2006			1464283.311	597937.878
SU5-41D-068	Plutonium-239/240	62.00	0.161	0.043	03/22/2006	J	J	1464283.311	597937.878
SU5-41D-068	Potassium-40	47.80	6.100	0.600	03/22/2006			1464283.311	597937.878
SU5-41D-068	Protactinium-231	4.00	1.200	1.200	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Radium-226	2.90	0.430	0.230	03/22/2006		J	1464283.311	597937.878
SU5-41D-068	Thorium-228	2.60	0.390	0.070	03/22/2006			1464283.311	597937.878
SU5-41D-068	Thorium-229	18.90	0.650	0.650	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Thorium-230	2.80	0.680	0.030	03/22/2006			1464283.311	597937.878
SU5-41D-068	Thorium-232	2.10	0.500	0.050	03/22/2006			1464283.311	597937.878
SU5-41D-068	Uranium-235	3.20	0.590	0.590	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-068	Uranium-238	2.20	1.100	1.100	03/22/2006	U	UJ	1464283.311	597937.878
SU5-41D-069	Actinium-227	4.60	0.570	0.570	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Actinium-228	1.93	1.230	0.380	03/23/2006		J	1464298.311	597937.878
SU5-41D-069	Americium-241	63.00	0.240	0.240	03/23/2006	U	U	1464298.311	597937.878
SU5-41D-069	Bismuth-207	1.20	0.089	0.089	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Bismuth-210M	8.30	0.130	0.130	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Bismuth-214	1.17	0.800	0.180	03/23/2006			1464298.311	597937.878
SU5-41D-069	Cesium-137	3.80	0.130	0.130	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Cobalt-60	0.70	0.120	0.120	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Lead-210	7.40	3.000	3.000	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Lead-212	16.60	1.240	0.190	03/23/2006			1464298.311	597937.878
SU5-41D-069	Plutonium-238	55.00	4.150	0.080	03/23/2006			1464298.311	597937.878
SU5-41D-069	Plutonium-239/240	62.00	0.091	0.052	03/23/2006	J	J	1464298.311	597937.878
SU5-41D-069	Potassium-40	47.80	32.600	0.800	03/23/2006			1464298.311	597937.878
SU5-41D-069	Protactinium-231	4.00	2.400	2.400	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Radium-226	2.90	0.800	0.180	03/23/2006		J	1464298.311	597937.878
SU5-41D-069	Thorium-228	2.60	1.190	0.060	03/23/2006			1464298.311	597937.878
SU5-41D-069	Thorium-229	18.90	1.300	1.300	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Thorium-230	2.80	1.080	0.040	03/23/2006			1464298.311	597937.878
SU5-41D-069	Thorium-232	2.10	1.290	0.070	03/23/2006			1464298.311	597937.878
SU5-41D-069	Uranium-235	3.20	1.200	1.200	03/23/2006	U	UJ	1464298.311	597937.878
SU5-41D-069	Uranium-238	2.20	2.400	2.400	03/23/2006	U	U	1464298.311	597937.878
SU5-41D-070	Actinium-227	4.60	0.400	0.400	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Actinium-228	1.93	0.560	0.300	03/23/2006		J	1464313.311	597937.878
SU5-41D-070	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Bismuth-207	1.20	0.067	0.067	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Bismuth-210M	8.30	0.084	0.084	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Bismuth-214	1.17	0.900	0.370	03/23/2006			1464313.311	597937.878
SU5-41D-070	Cesium-137	3.80	0.110	0.110	03/23/2006	U	U	1464313.311	597937.878
SU5-41D-070	Cobalt-60	0.70	0.085	0.085	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Lead-210	7.40	2.100	2.100	03/23/2006	U	U	1464313.311	597937.878
SU5-41D-070	Lead-212	16.60	0.520	0.140	03/23/2006			1464313.311	597937.878
SU5-41D-070	Plutonium-238	55.00	1.860	0.070	03/23/2006			1464313.311	597937.878
SU5-41D-070	Plutonium-239/240	62.00	0.048	0.043	03/23/2006	J	J	1464313.311	597937.878
SU5-41D-070	Potassium-40	47.80	10.500	0.800	03/23/2006			1464313.311	597937.878
SU5-41D-070	Protactinium-231	4.00	1.900	1.900	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Radium-226	2.90	0.900	0.370	03/23/2006		J	1464313.311	597937.878
SU5-41D-070	Thorium-228	2.60	0.670	0.070	03/23/2006			1464313.311	597937.878
SU5-41D-070	Thorium-229	18.90	0.860	0.860	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Thorium-230	2.80	0.890	0.050	03/23/2006			1464313.311	597937.878
SU5-41D-070	Thorium-232	2.10	0.530	0.030	03/23/2006			1464313.311	597937.878

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-070	Uranium-235	3.20	0.800	0.800	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-070	Uranium-238	2.20	1.500	1.500	03/23/2006	U	UJ	1464313.311	597937.878
SU5-41D-071	Actinium-227	4.60	0.290	0.290	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Actinium-228	1.93	0.330	0.330	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Americium-241	63.00	0.151	0.110	03/22/2006			1464275.811	597950.868
SU5-41D-071	Bismuth-207	1.20	0.048	0.048	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Bismuth-210M	8.30	0.057	0.057	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Bismuth-214	1.17	0.530	0.270	03/22/2006			1464275.811	597950.868
SU5-41D-071	Cesium-137	3.80	0.072	0.072	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Cobalt-60	0.70	0.084	0.084	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Lead-210	7.40	1.700	1.700	03/22/2006	U	U	1464275.811	597950.868
SU5-41D-071	Lead-212	16.60	0.317	0.092	03/22/2006			1464275.811	597950.868
SU5-41D-071	Plutonium-238	55.00	26.300	0.080	03/22/2006			1464275.811	597950.868
SU5-41D-071	Plutonium-239/240	62.00	0.175	0.028	03/22/2006	J	J	1464275.811	597950.868
SU5-41D-071	Potassium-40	47.80	9.300	0.600	03/22/2006			1464275.811	597950.868
SU5-41D-071	Protactinium-231	4.00	1.100	1.100	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Radium-226	2.90	0.530	0.270	03/22/2006		J	1464275.811	597950.868
SU5-41D-071	Thorium-228	2.60	0.540	0.070	03/22/2006			1464275.811	597950.868
SU5-41D-071	Thorium-229	18.90	0.660	0.660	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Thorium-230	2.80	0.860	0.030	03/22/2006			1464275.811	597950.868
SU5-41D-071	Thorium-232	2.10	0.410	0.030	03/22/2006			1464275.811	597950.868
SU5-41D-071	Uranium-235	3.20	0.670	0.670	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-071	Uranium-238	2.20	1.200	1.200	03/22/2006	U	UJ	1464275.811	597950.868
SU5-41D-072	Actinium-227	4.60	0.510	0.510	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Actinium-228	1.93	1.000	0.450	03/23/2006		J	1464290.811	597950.868
SU5-41D-072	Americium-241	63.00	0.270	0.190	03/23/2006		J	1464290.811	597950.868
SU5-41D-072	Bismuth-207	1.20	0.095	0.095	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Bismuth-214	1.17	0.600	0.420	03/23/2006			1464290.811	597950.868
SU5-41D-072	Cesium-137	3.80	0.100	0.100	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Lead-210	7.40	2.800	2.800	03/23/2006	U	U	1464290.811	597950.868
SU5-41D-072	Lead-212	16.60	0.790	0.200	03/23/2006			1464290.811	597950.868
SU5-41D-072	Plutonium-238	55.00	6.770	0.070	03/23/2006			1464290.811	597950.868
SU5-41D-072	Plutonium-239/240	62.00	0.095	0.029	03/23/2006	J	J	1464290.811	597950.868
SU5-41D-072	Potassium-40	47.80	22.800	1.000	03/23/2006			1464290.811	597950.868
SU5-41D-072	Protactinium-231	4.00	2.200	2.200	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Radium-226	2.90	0.600	0.420	03/23/2006		J	1464290.811	597950.868
SU5-41D-072	Thorium-228	2.60	1.150	0.070	03/23/2006			1464290.811	597950.868
SU5-41D-072	Thorium-229	18.90	1.000	1.000	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Thorium-230	2.80	1.020	0.050	03/23/2006			1464290.811	597950.868
SU5-41D-072	Thorium-232	2.10	1.120	0.030	03/23/2006			1464290.811	597950.868
SU5-41D-072	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-072	Uranium-238	2.20	2.000	2.000	03/23/2006	U	UJ	1464290.811	597950.868
SU5-41D-073	Actinium-227	4.60	0.800	0.500	03/23/2006			1464305.811	597950.868
SU5-41D-073	Actinium-228	1.93	0.740	0.290	03/23/2006		J	1464305.811	597950.868
SU5-41D-073	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Bismuth-207	1.20	0.059	0.059	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Bismuth-210M	8.30	0.085	0.085	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Bismuth-214	1.17	0.580	0.290	03/23/2006			1464305.811	597950.868
SU5-41D-073	Cesium-137	3.80	0.088	0.088	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Cobalt-60	0.70	0.065	0.065	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Lead-210	7.40	1.600	1.600	03/23/2006	U	U	1464305.811	597950.868
SU5-41D-073	Lead-212	16.60	0.630	0.100	03/23/2006			1464305.811	597950.868
SU5-41D-073	Plutonium-238	55.00	2.820	0.090	03/23/2006			1464305.811	597950.868
SU5-41D-073	Plutonium-239/240	62.00	0.058	0.058	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Potassium-40	47.80	9.400	0.800	03/23/2006			1464305.811	597950.868
SU5-41D-073	Protactinium-231	4.00	1.600	1.600	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Radium-226	2.90	0.580	0.290	03/23/2006		J	1464305.811	597950.868
SU5-41D-073	Thorium-228	2.60	0.630	0.060	03/23/2006			1464305.811	597950.868

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-073	Thorium-229	18.90	0.870	0.870	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Thorium-230	2.80	0.790	0.050	03/23/2006			1464305.811	597950.868
SU5-41D-073	Thorium-232	2.10	0.520	0.030	03/23/2006			1464305.811	597950.868
SU5-41D-073	Uranium-235	3.20	0.860	0.860	03/23/2006	U	UJ	1464305.811	597950.868
SU5-41D-073	Uranium-238	2.20	1.600	1.600	03/23/2006	U	U	1464305.811	597950.868
SU5-41D-074	Actinium-227	4.60	0.380	0.380	03/22/2006	U	U	1464268.311	597963.859
SU5-41D-074	Actinium-228	1.93	0.470	0.310	03/22/2006		J	1464268.311	597963.859
SU5-41D-074	Americium-241	63.00	0.140	0.140	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Bismuth-207	1.20	0.068	0.068	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Bismuth-210M	8.30	0.074	0.074	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Bismuth-214	1.17	0.600	0.130	03/22/2006			1464268.311	597963.859
SU5-41D-074	Cesium-137	3.80	0.074	0.074	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Cobalt-60	0.70	0.081	0.081	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Lead-210	7.40	1.900	1.900	03/22/2006	U	U	1464268.311	597963.859
SU5-41D-074	Lead-212	16.60	0.550	0.099	03/22/2006			1464268.311	597963.859
SU5-41D-074	Plutonium-238	55.00	3.240	0.070	03/22/2006			1464268.311	597963.859
SU5-41D-074	Plutonium-239/240	62.00	0.056	0.041	03/22/2006	J	J	1464268.311	597963.859
SU5-41D-074	Potassium-40	47.80	11.200	0.400	03/22/2006			1464268.311	597963.859
SU5-41D-074	Protactinium-231	4.00	1.500	1.500	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Radium-226	2.90	0.600	0.130	03/22/2006		J	1464268.311	597963.859
SU5-41D-074	Thorium-228	2.60	0.720	0.070	03/22/2006			1464268.311	597963.859
SU5-41D-074	Thorium-229	18.90	0.830	0.830	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Thorium-230	2.80	0.860	0.030	03/22/2006			1464268.311	597963.859
SU5-41D-074	Thorium-232	2.10	0.630	0.030	03/22/2006			1464268.311	597963.859
SU5-41D-074	Uranium-235	3.20	0.830	0.830	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-074	Uranium-238	2.20	1.400	1.400	03/22/2006	U	UJ	1464268.311	597963.859
SU5-41D-075	Actinium-227	4.60	0.320	0.320	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Actinium-228	1.93	0.640	0.230	03/23/2006		J	1464283.311	597963.859
SU5-41D-075	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Bismuth-207	1.20	0.060	0.060	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Bismuth-210M	8.30	0.078	0.078	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Bismuth-214	1.17	0.840	0.330	03/23/2006			1464283.311	597963.859
SU5-41D-075	Cesium-137	3.80	0.082	0.082	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Cobalt-60	0.70	0.100	0.100	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Lead-210	7.40	1.800	1.800	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Lead-212	16.60	0.730	0.100	03/23/2006			1464283.311	597963.859
SU5-41D-075	Plutonium-238	55.00	20.200	0.070	03/23/2006			1464283.311	597963.859
SU5-41D-075	Plutonium-239/240	62.00	0.260	0.040	03/23/2006			1464283.311	597963.859
SU5-41D-075	Potassium-40	47.80	16.900	0.700	03/23/2006			1464283.311	597963.859
SU5-41D-075	Protactinium-231	4.00	1.400	1.400	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Radium-226	2.90	0.840	0.330	03/23/2006		J	1464283.311	597963.859
SU5-41D-075	Thorium-228	2.60	0.830	0.070	03/23/2006			1464283.311	597963.859
SU5-41D-075	Thorium-229	18.90	0.780	0.780	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Thorium-230	2.80	1.090	0.050	03/23/2006			1464283.311	597963.859
SU5-41D-075	Thorium-232	2.10	0.720	0.040	03/23/2006			1464283.311	597963.859
SU5-41D-075	Uranium-235	3.20	0.720	0.720	03/23/2006	U	UJ	1464283.311	597963.859
SU5-41D-075	Uranium-238	2.20	1.500	1.500	03/23/2006	U	U	1464283.311	597963.859
SU5-41D-076	Actinium-227	4.60	0.600	0.600	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Actinium-228	1.93	0.910	0.380	03/28/2006		J	1464298.311	597963.859
SU5-41D-076	Americium-241	63.00	0.240	0.240	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Bismuth-207	1.20	0.099	0.099	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Bismuth-210M	8.30	0.120	0.120	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Bismuth-214	1.17	1.160	0.510	03/28/2006			1464298.311	597963.859
SU5-41D-076	Cesium-137	3.80	0.120	0.120	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Cobalt-60	0.70	0.140	0.140	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Lead-210	7.40	2.800	2.800	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Lead-212	16.60	0.960	0.160	03/28/2006			1464298.311	597963.859
SU5-41D-076	Plutonium-238	55.00	0.051	0.051	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Plutonium-239/240	62.00	0.051	0.051	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Potassium-40	47.80	19.600	1.100	03/28/2006			1464298.311	597963.859

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-076	Protactinium-231	4.00	2.400	2.400	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Radium-226	2.90	1.160	0.510	03/28/2006		J	1464298.311	597963.859
SU5-41D-076	Thorium-228	2.60	1.070	0.070	03/28/2006			1464298.311	597963.859
SU5-41D-076	Thorium-229	18.90	1.200	1.200	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Thorium-230	2.80	1.470	0.060	03/28/2006			1464298.311	597963.859
SU5-41D-076	Thorium-232	2.10	0.970	0.030	03/28/2006			1464298.311	597963.859
SU5-41D-076	Uranium-235	3.20	1.200	1.200	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-076	Uranium-238	2.20	2.300	2.300	03/28/2006	U	UJ	1464298.311	597963.859
SU5-41D-078	Actinium-227	4.60	0.420	0.360	03/22/2006		J	1464260.811	597976.849
SU5-41D-078	Actinium-228	1.93	0.250	0.200	03/22/2006		J	1464260.811	597976.849
SU5-41D-078	Americium-241	63.00	0.110	0.110	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Bismuth-207	1.20	0.046	0.046	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Bismuth-210M	8.30	0.057	0.057	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Bismuth-214	1.17	0.380	0.110	03/22/2006			1464260.811	597976.849
SU5-41D-078	Cesium-137	3.80	0.063	0.063	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Cobalt-60	0.70	0.063	0.063	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Lead-210	7.40	1.200	1.200	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Lead-212	16.60	0.298	0.081	03/22/2006			1464260.811	597976.849
SU5-41D-078	Plutonium-238	55.00	0.930	0.070	03/22/2006			1464260.811	597976.849
SU5-41D-078	Plutonium-239/240	62.00	0.025	0.025	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Potassium-40	47.80	4.900	0.800	03/22/2006			1464260.811	597976.849
SU5-41D-078	Protactinium-231	4.00	1.100	1.100	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Radium-226	2.90	0.380	0.110	03/22/2006		J	1464260.811	597976.849
SU5-41D-078	Thorium-228	2.60	0.290	0.040	03/22/2006			1464260.811	597976.849
SU5-41D-078	Thorium-229	18.90	0.640	0.640	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Thorium-230	2.80	0.550	0.070	03/22/2006			1464260.811	597976.849
SU5-41D-078	Thorium-232	2.10	0.360	0.050	03/22/2006			1464260.811	597976.849
SU5-41D-078	Uranium-235	3.20	0.660	0.660	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-078	Uranium-238	2.20	1.100	1.100	03/22/2006	U	UJ	1464260.811	597976.849
SU5-41D-079	Actinium-227	4.60	0.510	0.510	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Actinium-228	1.93	0.960	0.340	03/22/2006		J	1464275.811	597976.849
SU5-41D-079	Americium-241	63.00	0.180	0.180	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Bismuth-207	1.20	0.080	0.080	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Bismuth-210M	8.30	0.110	0.110	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Bismuth-214	1.17	0.700	0.190	03/22/2006			1464275.811	597976.849
SU5-41D-079	Cesium-137	3.80	0.100	0.100	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Cobalt-60	0.70	0.100	0.100	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Lead-210	7.40	2.400	2.400	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Lead-212	16.60	1.200	0.170	03/22/2006			1464275.811	597976.849
SU5-41D-079	Plutonium-238	55.00	1.200	0.060	03/22/2006			1464275.811	597976.849
SU5-41D-079	Plutonium-239/240	62.00	0.038	0.038	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Potassium-40	47.80	31.500	0.900	03/22/2006			1464275.811	597976.849
SU5-41D-079	Protactinium-231	4.00	2.100	2.100	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Radium-226	2.90	0.700	0.190	03/22/2006		J	1464275.811	597976.849
SU5-41D-079	Thorium-228	2.60	0.950	0.070	03/22/2006			1464275.811	597976.849
SU5-41D-079	Thorium-229	18.90	1.100	1.100	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Thorium-230	2.80	0.650	0.020	03/22/2006			1464275.811	597976.849
SU5-41D-079	Thorium-232	2.10	0.990	0.040	03/22/2006			1464275.811	597976.849
SU5-41D-079	Uranium-235	3.20	1.000	1.000	03/22/2006	U	UJ	1464275.811	597976.849
SU5-41D-079	Uranium-238	2.20	2.200	2.000	03/22/2006			1464275.811	597976.849
SU5-41D-080	Actinium-227	4.60	0.390	0.390	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Actinium-228	1.93	1.110	0.320	03/23/2006		J	1464290.811	597976.849
SU5-41D-080	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Bismuth-207	1.20	0.071	0.071	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Bismuth-210M	8.30	0.089	0.089	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Bismuth-214	1.17	1.150	0.130	03/23/2006			1464290.811	597976.849
SU5-41D-080	Cesium-137	3.80	0.100	0.100	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Cobalt-60	0.70	0.120	0.120	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Lead-212	16.60	0.880	0.140	03/23/2006			1464290.811	597976.849

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-080	Plutonium-238	55.00	3.260	0.050	03/23/2006			1464290.811	597976.849
SU5-41D-080	Plutonium-239/240	62.00	0.047	0.025	03/23/2006	J	J	1464290.811	597976.849
SU5-41D-080	Potassium-40	47.80	19.200	1.000	03/23/2006			1464290.811	597976.849
SU5-41D-080	Protactinium-231	4.00	1.800	1.800	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Radium-226	2.90	1.150	0.130	03/23/2006		J	1464290.811	597976.849
SU5-41D-080	Thorium-228	2.60	0.850	0.060	03/23/2006			1464290.811	597976.849
SU5-41D-080	Thorium-229	18.90	0.980	0.980	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Thorium-230	2.80	1.220	0.050	03/23/2006			1464290.811	597976.849
SU5-41D-080	Thorium-232	2.10	1.020	0.030	03/23/2006			1464290.811	597976.849
SU5-41D-080	Uranium-235	3.20	0.980	0.980	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-080	Uranium-238	2.20	1.500	1.500	03/23/2006	U	UJ	1464290.811	597976.849
SU5-41D-081	Actinium-227	4.60	0.380	0.380	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Actinium-228	1.93	0.530	0.530	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Americium-241	63.00	0.150	0.150	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Bismuth-207	1.20	0.062	0.062	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Bismuth-210M	8.30	0.093	0.093	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Bismuth-214	1.17	0.730	0.140	03/23/2006			1464305.811	597976.849
SU5-41D-081	Cesium-137	3.80	0.081	0.081	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Cobalt-60	0.70	0.085	0.085	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Lead-212	16.60	0.520	0.140	03/23/2006			1464305.811	597976.849
SU5-41D-081	Plutonium-238	55.00	0.171	0.055	03/23/2006	J		1464305.811	597976.849
SU5-41D-081	Plutonium-239/240	62.00	0.024	0.024	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Potassium-40	47.80	13.200	1.000	03/23/2006			1464305.811	597976.849
SU5-41D-081	Protactinium-231	4.00	1.600	1.600	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Radium-226	2.90	0.730	0.140	03/23/2006		J	1464305.811	597976.849
SU5-41D-081	Thorium-228	2.60	0.650	0.050	03/23/2006			1464305.811	597976.849
SU5-41D-081	Thorium-229	18.90	0.940	0.940	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Thorium-230	2.80	0.950	0.040	03/23/2006			1464305.811	597976.849
SU5-41D-081	Thorium-232	2.10	0.640	0.040	03/23/2006			1464305.811	597976.849
SU5-41D-081	Uranium-235	3.20	0.920	0.920	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-081	Uranium-238	2.20	1.600	1.600	03/23/2006	U	UJ	1464305.811	597976.849
SU5-41D-082	Actinium-227	4.60	0.490	0.490	03/23/2006	U	U	1464268.311	597989.840
SU5-41D-082	Actinium-228	1.93	0.560	0.260	03/23/2006		J	1464268.311	597989.840
SU5-41D-082	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Bismuth-207	1.20	0.065	0.065	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Bismuth-210M	8.30	0.086	0.086	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Bismuth-214	1.17	0.500	0.280	03/23/2006			1464268.311	597989.840
SU5-41D-082	Cesium-137	3.80	0.073	0.073	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Cobalt-60	0.70	0.088	0.088	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Lead-210	7.40	1.600	1.600	03/23/2006	U	U	1464268.311	597989.840
SU5-41D-082	Lead-212	16.60	0.551	0.098	03/23/2006			1464268.311	597989.840
SU5-41D-082	Plutonium-238	55.00	4.330	0.040	03/23/2006			1464268.311	597989.840
SU5-41D-082	Plutonium-239/240	62.00	0.043	0.043	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Potassium-40	47.80	16.000	0.700	03/23/2006			1464268.311	597989.840
SU5-41D-082	Protactinium-231	4.00	1.600	1.600	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Radium-226	2.90	0.500	0.280	03/23/2006		J	1464268.311	597989.840
SU5-41D-082	Thorium-228	2.60	0.650	0.060	03/23/2006			1464268.311	597989.840
SU5-41D-082	Thorium-229	18.90	0.760	0.760	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Thorium-230	2.80	0.770	0.040	03/23/2006			1464268.311	597989.840
SU5-41D-082	Thorium-232	2.10	0.720	0.040	03/23/2006			1464268.311	597989.840
SU5-41D-082	Uranium-235	3.20	0.900	0.900	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-082	Uranium-238	2.20	1.500	1.500	03/23/2006	U	UJ	1464268.311	597989.840
SU5-41D-083	Actinium-227	4.60	0.470	0.470	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Actinium-228	1.93	0.980	0.340	03/23/2006		J	1464283.311	597989.840
SU5-41D-083	Americium-241	63.00	0.180	0.180	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Bismuth-207	1.20	0.082	0.082	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Bismuth-210M	8.30	0.120	0.120	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Bismuth-214	1.17	0.920	0.160	03/23/2006			1464283.311	597989.840
SU5-41D-083	Cesium-137	3.80	0.090	0.090	03/23/2006	U	UJ	1464283.311	597989.840

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Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-083	Cobalt-60	0.70	0.100	0.100	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Lead-210	7.40	2.300	2.300	03/23/2006	U	U	1464283.311	597989.840
SU5-41D-083	Lead-212	16.60	1.120	0.120	03/23/2006			1464283.311	597989.840
SU5-41D-083	Plutonium-238	55.00	0.098	0.064	03/23/2006	J	J	1464283.311	597989.840
SU5-41D-083	Plutonium-239/240	62.00	0.042	0.042	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Potassium-40	47.80	20.400	0.800	03/23/2006			1464283.311	597989.840
SU5-41D-083	Protactinium-231	4.00	2.100	2.100	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Radium-226	2.90	0.920	0.160	03/23/2006		J	1464283.311	597989.840
SU5-41D-083	Thorium-228	2.60	1.100	0.060	03/23/2006			1464283.311	597989.840
SU5-41D-083	Thorium-229	18.90	1.200	1.200	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Thorium-230	2.80	1.270	0.040	03/23/2006			1464283.311	597989.840
SU5-41D-083	Thorium-232	2.10	1.000	0.030	03/23/2006			1464283.311	597989.840
SU5-41D-083	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-083	Uranium-238	2.20	1.900	1.900	03/23/2006	U	UJ	1464283.311	597989.840
SU5-41D-084	Actinium-227	4.60	0.230	0.230	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Actinium-228	1.93	0.280	0.280	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Americium-241	63.00	0.074	0.074	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Bismuth-207	1.20	0.046	0.046	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Bismuth-210M	8.30	0.053	0.053	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Bismuth-214	1.17	0.460	0.230	03/23/2006			1464298.311	597989.840
SU5-41D-084	Cesium-137	3.80	0.055	0.055	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Cobalt-60	0.70	0.050	0.050	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Lead-210	7.40	1.200	1.200	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Lead-212	16.60	0.166	0.064	03/23/2006			1464298.311	597989.840
SU5-41D-084	Plutonium-238	55.00	0.600	0.080	03/23/2006			1464298.311	597989.840
SU5-41D-084	Plutonium-239/240	62.00	0.026	0.026	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Potassium-40	47.80	4.850	0.450	03/23/2006			1464298.311	597989.840
SU5-41D-084	Protactinium-231	4.00	1.000	1.000	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Radium-226	2.90	0.460	0.230	03/23/2006		J	1464298.311	597989.840
SU5-41D-084	Thorium-228	2.60	0.204	0.067	03/23/2006			1464298.311	597989.840
SU5-41D-084	Thorium-229	18.90	0.540	0.540	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Thorium-230	2.80	0.490	0.040	03/23/2006			1464298.311	597989.840
SU5-41D-084	Thorium-232	2.10	0.203	0.048	03/23/2006			1464298.311	597989.840
SU5-41D-084	Uranium-235	3.20	0.470	0.470	03/23/2006	U	UJ	1464298.311	597989.840
SU5-41D-084	Uranium-238	2.20	0.940	0.940	03/23/2006	U	U	1464298.311	597989.840
SU5-41D-085	Actinium-227	4.60	0.330	0.330	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Actinium-228	1.93	0.470	0.470	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Americium-241	63.00	0.150	0.150	03/22/2006	U	U	1464260.811	598002.830
SU5-41D-085	Bismuth-207	1.20	0.052	0.052	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Bismuth-210M	8.30	0.066	0.066	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Bismuth-214	1.17	0.460	0.280	03/22/2006			1464260.811	598002.830
SU5-41D-085	Cesium-137	3.80	0.080	0.080	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Cobalt-60	0.70	0.077	0.077	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Lead-210	7.40	1.600	1.600	03/22/2006	U	U	1464260.811	598002.830
SU5-41D-085	Lead-212	16.60	0.310	0.090	03/22/2006			1464260.811	598002.830
SU5-41D-085	Plutonium-238	55.00	1.280	0.060	03/22/2006			1464260.811	598002.830
SU5-41D-085	Plutonium-239/240	62.00	0.043	0.043	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Potassium-40	47.80	5.500	1.000	03/22/2006			1464260.811	598002.830
SU5-41D-085	Protactinium-231	4.00	1.200	1.200	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Radium-226	2.90	0.460	0.280	03/22/2006		J	1464260.811	598002.830
SU5-41D-085	Thorium-228	2.60	0.430	0.070	03/22/2006			1464260.811	598002.830
SU5-41D-085	Thorium-229	18.90	0.810	0.810	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Thorium-230	2.80	0.660	0.040	03/22/2006			1464260.811	598002.830
SU5-41D-085	Thorium-232	2.10	0.340	0.050	03/22/2006			1464260.811	598002.830
SU5-41D-085	Uranium-235	3.20	0.720	0.720	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-085	Uranium-238	2.20	1.400	1.400	03/22/2006	U	UJ	1464260.811	598002.830
SU5-41D-086	Actinium-227	4.60	0.400	0.400	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Actinium-228	1.93	0.970	0.330	03/23/2006			1464275.811	598002.830
SU5-41D-086	Americium-241	63.00	0.170	0.170	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Bismuth-207	1.20	0.083	0.083	03/23/2006	U	UJ	1464275.811	598002.830

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-086	Bismuth-210M	8.30	0.092	0.092	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Bismuth-214	1.17	1.070	0.150	03/23/2006			1464275.811	598002.830
SU5-41D-086	Cesium-137	3.80	0.088	0.088	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Cobalt-60	0.70	0.110	0.110	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Lead-210	7.40	2.100	2.100	03/23/2006	U	U	1464275.811	598002.830
SU5-41D-086	Lead-212	16.60	1.160	0.120	03/23/2006			1464275.811	598002.830
SU5-41D-086	Plutonium-238	55.00	3.640	0.070	03/23/2006			1464275.811	598002.830
SU5-41D-086	Plutonium-239/240	62.00	0.024	0.024	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Potassium-40	47.80	22.900	0.600	03/23/2006			1464275.811	598002.830
SU5-41D-086	Protactinium-231	4.00	1.700	1.700	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Radium-226	2.90	1.070	0.150	03/23/2006		J	1464275.811	598002.830
SU5-41D-086	Thorium-228	2.60	1.220	0.060	03/23/2006			1464275.811	598002.830
SU5-41D-086	Thorium-229	18.90	0.970	0.970	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Thorium-230	2.80	1.370	0.050	03/23/2006			1464275.811	598002.830
SU5-41D-086	Thorium-232	2.10	1.020	0.040	03/23/2006			1464275.811	598002.830
SU5-41D-086	Uranium-235	3.20	0.910	0.910	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-086	Uranium-238	2.20	1.700	1.700	03/23/2006	U	UJ	1464275.811	598002.830
SU5-41D-087	Actinium-227	4.60	0.530	0.530	03/23/2006	U	U	1464290.811	598002.830
SU5-41D-087	Actinium-228	1.93	1.080	0.340	03/23/2006			1464290.811	598002.830
SU5-41D-087	Americium-241	63.00	0.210	0.210	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Bismuth-207	1.20	0.076	0.076	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Bismuth-210M	8.30	0.110	0.110	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Bismuth-214	1.17	1.080	0.190	03/23/2006			1464290.811	598002.830
SU5-41D-087	Cesium-137	3.80	0.099	0.099	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Cobalt-60	0.70	0.093	0.093	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Lead-210	7.40	2.900	2.900	03/23/2006	U	U	1464290.811	598002.830
SU5-41D-087	Lead-212	16.60	0.910	0.180	03/23/2006			1464290.811	598002.830
SU5-41D-087	Plutonium-238	55.00	1.590	0.070	03/23/2006			1464290.811	598002.830
SU5-41D-087	Plutonium-239/240	62.00	0.028	0.025	03/23/2006	J	J	1464290.811	598002.830
SU5-41D-087	Potassium-40	47.80	15.900	1.100	03/23/2006			1464290.811	598002.830
SU5-41D-087	Protactinium-231	4.00	2.200	2.200	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Radium-226	2.90	1.080	0.190	03/23/2006		J	1464290.811	598002.830
SU5-41D-087	Thorium-228	2.60	0.890	0.050	03/23/2006			1464290.811	598002.830
SU5-41D-087	Thorium-229	18.90	1.200	1.200	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Thorium-230	2.80	1.200	0.050	03/23/2006			1464290.811	598002.830
SU5-41D-087	Thorium-232	2.10	0.880	0.040	03/23/2006			1464290.811	598002.830
SU5-41D-087	Uranium-235	3.20	1.100	1.100	03/23/2006	U	UJ	1464290.811	598002.830
SU5-41D-087	Uranium-238	2.20	2.100	2.100	03/23/2006	U	U	1464290.811	598002.830
SU5-41D-088	Actinium-227	4.60	0.430	0.300	03/22/2006			1464268.311	598015.820
SU5-41D-088	Actinium-228	1.93	0.240	0.240	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Americium-241	63.00	0.096	0.096	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Bismuth-207	1.20	0.045	0.045	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Bismuth-210M	8.30	0.057	0.057	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Bismuth-214	1.17	0.340	0.090	03/22/2006			1464268.311	598015.820
SU5-41D-088	Cesium-137	3.80	0.047	0.047	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Cobalt-60	0.70	0.077	0.077	03/22/2006	U	U	1464268.311	598015.820
SU5-41D-088	Lead-210	7.40	1.400	1.400	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Lead-212	16.60	0.231	0.063	03/22/2006			1464268.311	598015.820
SU5-41D-088	Plutonium-238	55.00	0.222	0.037	03/22/2006			1464268.311	598015.820
SU5-41D-088	Plutonium-239/240	62.00	0.037	0.037	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Potassium-40	47.80	6.000	0.400	03/22/2006			1464268.311	598015.820
SU5-41D-088	Protactinium-231	4.00	1.100	1.100	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Radium-226	2.90	0.340	0.090	03/22/2006		J	1464268.311	598015.820
SU5-41D-088	Thorium-228	2.60	0.164	0.074	03/22/2006	J	J	1464268.311	598015.820
SU5-41D-088	Thorium-229	18.90	0.550	0.550	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Thorium-230	2.80	0.660	0.060	03/22/2006			1464268.311	598015.820
SU5-41D-088	Thorium-232	2.10	0.250	0.050	03/22/2006			1464268.311	598015.820
SU5-41D-088	Uranium-235	3.20	0.590	0.590	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-088	Uranium-238	2.20	1.000	1.000	03/22/2006	U	UJ	1464268.311	598015.820
SU5-41D-089	Actinium-227	4.60	0.380	0.380	03/23/2006	U	UJ	1464283.311	598015.820

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-089	Actinium-228	1.93	1.020	0.260	03/23/2006			1464283.311	598015.820
SU5-41D-089	Americium-241	63.00	0.160	0.160	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Bismuth-207	1.20	0.065	0.065	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Bismuth-210M	8.30	0.089	0.089	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Bismuth-214	1.17	1.030	0.180	03/23/2006			1464283.311	598015.820
SU5-41D-089	Cesium-137	3.80	0.110	0.110	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Cobalt-60	0.70	0.120	0.120	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Lead-212	16.60	1.140	0.120	03/23/2006			1464283.311	598015.820
SU5-41D-089	Plutonium-238	55.00	0.300	0.050	03/23/2006			1464283.311	598015.820
SU5-41D-089	Plutonium-239/240	62.00	0.045	0.045	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Potassium-40	47.80	18.700	0.800	03/23/2006			1464283.311	598015.820
SU5-41D-089	Protactinium-231	4.00	1.600	1.600	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Radium-226	2.90	1.030	0.180	03/23/2006		J	1464283.311	598015.820
SU5-41D-089	Thorium-228	2.60	1.080	0.090	03/23/2006			1464283.311	598015.820
SU5-41D-089	Thorium-229	18.90	0.900	0.900	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Thorium-230	2.80	1.860	0.060	03/23/2006			1464283.311	598015.820
SU5-41D-089	Thorium-232	2.10	0.990	0.060	03/23/2006			1464283.311	598015.820
SU5-41D-089	Uranium-235	3.20	0.890	0.890	03/23/2006	U	UJ	1464283.311	598015.820
SU5-41D-089	Uranium-238	2.20	1.800	1.800	03/23/2006	U	U	1464283.311	598015.820
SU5-41D-090	Actinium-227	4.60	0.390	0.390	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Actinium-228	1.93	0.570	0.270	03/23/2006			1464298.311	598015.820
SU5-41D-090	Americium-241	63.00	0.170	0.170	03/23/2006	U	U	1464298.311	598015.820
SU5-41D-090	Bismuth-207	1.20	0.075	0.075	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Bismuth-210M	8.30	0.095	0.095	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Bismuth-214	1.17	0.650	0.180	03/23/2006			1464298.311	598015.820
SU5-41D-090	Cesium-137	3.80	0.082	0.082	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Cobalt-60	0.70	0.088	0.088	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Lead-210	7.40	2.000	2.000	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Lead-212	16.60	0.480	0.130	03/23/2006			1464298.311	598015.820
SU5-41D-090	Plutonium-238	55.00	0.510	0.060	03/23/2006			1464298.311	598015.820
SU5-41D-090	Plutonium-239/240	62.00	0.039	0.039	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Potassium-40	47.80	12.300	0.800	03/23/2006			1464298.311	598015.820
SU5-41D-090	Protactinium-231	4.00	1.600	1.600	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Radium-226	2.90	0.650	0.180	03/23/2006		J	1464298.311	598015.820
SU5-41D-090	Thorium-228	2.60	0.790	0.080	03/23/2006			1464298.311	598015.820
SU5-41D-090	Thorium-229	18.90	0.910	0.910	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Thorium-230	2.80	0.890	0.070	03/23/2006			1464298.311	598015.820
SU5-41D-090	Thorium-232	2.10	0.410	0.070	03/23/2006			1464298.311	598015.820
SU5-41D-090	Uranium-235	3.20	0.800	0.800	03/23/2006	U	UJ	1464298.311	598015.820
SU5-41D-090	Uranium-238	2.20	1.600	1.600	03/23/2006	U	U	1464298.311	598015.820
SU5-41D-091	Actinium-227	4.60	1.270	0.610	03/22/2006			1464290.811	598028.811
SU5-41D-091	Actinium-228	1.93	1.130	0.350	03/22/2006			1464290.811	598028.811
SU5-41D-091	Americium-241	63.00	0.190	0.190	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Bismuth-207	1.20	0.075	0.075	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Bismuth-210M	8.30	0.100	0.100	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Bismuth-214	1.17	0.860	0.160	03/22/2006			1464290.811	598028.811
SU5-41D-091	Cesium-137	3.80	0.100	0.100	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Cobalt-60	0.70	0.100	0.100	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Lead-210	7.40	2.400	2.400	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Lead-212	16.60	0.980	0.110	03/22/2006			1464290.811	598028.811
SU5-41D-091	Plutonium-238	55.00	0.151	0.083	03/22/2006	J	J	1464290.811	598028.811
SU5-41D-091	Plutonium-239/240	62.00	0.055	0.055	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Potassium-40	47.80	25.300	0.900	03/22/2006			1464290.811	598028.811
SU5-41D-091	Protactinium-231	4.00	1.900	1.900	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Radium-226	2.90	0.860	0.160	03/22/2006		J	1464290.811	598028.811
SU5-41D-091	Thorium-228	2.60	1.080	0.060	03/22/2006			1464290.811	598028.811
SU5-41D-091	Thorium-229	18.90	0.940	0.940	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Thorium-230	2.80	0.980	0.030	03/22/2006			1464290.811	598028.811
SU5-41D-091	Thorium-232	2.10	0.800	0.040	03/22/2006			1464290.811	598028.811

Table 1: Offsite Verification Results (pCi/g)

[results > CO and < HS are bold]

Location	Analyte	CO	Result	DL	Date	Lab Qual	Data Qual	X Coord	Y Coord
SU5-41D-091	Uranium-235	3.20	0.960	0.960	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-091	Uranium-238	2.20	1.800	1.800	03/22/2006	U	UJ	1464290.811	598028.811
SU5-41D-30AD	Actinium-227	4.60	0.880	0.600	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Actinium-228	1.93	0.790	0.330	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Americium-241	63.00	0.180	0.180	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Bismuth-207	1.20	0.073	0.073	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Bismuth-210M	8.30	0.110	0.110	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Bismuth-214	1.17	1.000	0.370	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Cesium-137	3.80	0.091	0.091	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Cobalt-60	0.70	0.096	0.096	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Lead-210	7.40	2.300	2.300	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Lead-212	16.60	0.760	0.130	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Plutonium-238	55.00	0.084	0.084	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Plutonium-239/240	62.00	0.084	0.084	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Potassium-40	47.80	15.200	0.700	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Protactinium-231	4.00	2.100	2.100	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Radium-226	2.90	1.000	0.370	04/04/2006		J	1464343.311	597807.974
SU5-41D-30AD	Thorium-228	2.60	0.880	0.110	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Thorium-229	18.90	1.100	1.100	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Thorium-230	2.80	1.550	0.070	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Thorium-232	2.10	0.920	0.050	04/04/2006			1464343.311	597807.974
SU5-41D-30AD	Uranium-235	3.20	0.950	0.950	04/04/2006	U	UJ	1464343.311	597807.974
SU5-41D-30AD	Uranium-238	2.20	1.800	1.800	04/04/2006	U	UJ	1464343.311	597807.974

U: not detected
J: estimated
DL: detection limit
qual: qualifier
CO: cleanup objective
HS: hot spot
D: duplicate
A: indicates resample
** results > CO but not evaluated individually because they are daughter products of Th-232 which includes daughter product activity in its CO

Table 2: 95% UCL for Pu-238 at SU5

Data File

Variable: 19

Raw Statistics	
Number of Valid Samples	89
Number of Unique Samples	86
Minimum	0.051
Maximum	129
Mean	11.71907
Median	3.3
Standard Deviation	17.94373
Variance	321.9776
Coefficient of Variation	1.531157
Skewness	3.604125

Gamma Statistics	
k hat	0.479884
k star (bias corrected)	0.471198
Theta hat	24.42064
Theta star	24.87077
nu hat	85.41929
nu star	83.87332
Approx.Chi Square Value (.05)	63.76187
Adjusted Level of Significance	0.047303
Adjusted Chi Square Value	63.47428

Log-transformed Statistics	
Minimum of log data	-2.97593
Maximum of log data	4.859812
Mean of log data	1.129106
Standard Deviation of log data	1.969047
Variance of log data	3.877147

Assuming gamma distribution (0.05)

RECOMMENDATION

Use Adjusted Gamma UCL

Therefore, the 95% UCL

PASSES

when compared to the cleanup objective of 55 pCi/g

Normal Distribution Test	
Lilliefors Test Statisitic	0.257763
Lilliefors 5% Critical Value	0.093916
Data not normal at 5% significance level	

95% UCL (Assuming Normal Distribution)	
Student's-t UCL	14.88092

Gamma Distribution Test	
A-D Test Statistic	1.403297
A-D 5% Critical Value	0.823432
K-S Test Statistic	0.096431
K-S 5% Critical Value	0.100474
Data follow approximate gamma distibution at 5% significance level	

95% UCLs (Assuming Gamma Distribution)	
Approximate Gamma UCL	15.41544
Adjusted Gamma UCL	15.48528

Lognormal Distribution Test	
Lilliefors Test Statisitic	0.133562
Lilliefors 5% Critical Value	0.093916
Data not lognormal at 5% significance level	

95% UCLs (Assuming Lognormal Distribution)	
95% H-UCL	42.91951
95% Chebyshev (MVUE) UCL	48.74791
97.5% Chebyshev (MVUE) UCL	61.0875
99% Chebyshev (MVUE) UCL	85.32622

95% Non-parametric UCLs	
CLT UCL	14.84763
Adj-CLT UCL (Adjusted for skewness)	15.62406
Mod-t UCL (Adjusted for skewness)	15.00202
Jackknife UCL	14.88092
Standard Bootstrap UCL	14.83659
Bootstrap-t UCL	16.15614
Hall's Bootstrap UCL	17.48589
Percentile Bootstrap UCL	14.95134
BCA Bootstrap UCL	15.77733
95% Chebyshev (Mean, Sd) UCL	20.00983
97.5% Chebyshev (Mean, Sd) UCL	23.59725
99% Chebyshev (Mean, Sd) UCL	30.64405

Table 3: Sign Test for Pu-238 at SU5

	Activity (pCi/g)		
ID	**Pu-238**	CO-Meas	Sign Test
SU5-41D-001	19.000	0.060	+
SU5-41D-002	19.800	0.070	+
SU5-41D-003	9.600	0.090	+
SU5-41D-004	14.900	0.050	+
SU5-41D-005	3.910	0.070	+
SU5-41D-006	30.300	0.070	+
SU5-41D-007	42.000	0.070	+
SU5-41D-008	13.700	0.050	+
SU5-41D-009	15.100	0.060	+
SU5-41D-010	1.210	0.050	+
SU5-41D-011	20.000	0.050	+
SU5-41D-012	17.600	0.060	+
SU5-41D-013	25.400	0.070	+
SU5-41D-014	0.107	0.066	+
SU5-41D-015	17.100	0.090	+
SU5-41D-016	15.100	0.050	+
SU5-41D-017A	28.500	0.080	+
SU5-41D-018	36.000	0.070	+
SU5-41D-019	8.700	0.060	+
SU5-41D-020	27.100	0.090	+
SU5-41D-021	46.800	0.070	+
SU5-41D-022	24.500	0.060	+
SU5-41D-023	0.450	0.100	+
SU5-41D-024	0.126	0.098	+
SU5-41D-025	0.116	0.080	+
SU5-41D-026	24.100	0.080	+
SU5-41D-027	24.100	0.090	+
SU5-41D-028A	33.900	0.070	+
SU5-41D-029A	13.600	0.070	+
SU5-41D-030A	0.180	0.180	+
SU5-41D-031	22.100	0.060	+
SU5-41D-032	0.700	0.080	+
SU5-41D-033	40.600	0.080	+
SU5-41D-034	48.700	0.060	+
SU5-41D-035A	1.450	0.080	+
SU5-41D-036	2.920	0.050	+
SU5-41D-037	1.660	0.060	+
SU5-41D-038	0.190	0.110	+
SU5-41D-039	2.130	0.070	+
SU5-41D-040	5.180	0.080	+
SU5-41D-041	23.600	0.080	+
SU5-41D-042	0.420	0.100	+
SU5-41D-043	10.400	0.100	+
SU5-41D-044A	8.400	0.100	+
SU5-41D-045	20.300	0.070	+
SU5-41D-046	0.990	0.070	+
SU5-41D-047	0.174	0.092	+
SU5-41D-048	43.700	0.090	+
SU5-41D-049	1.480	0.100	+
SU5-41D-050	4.790	0.090	+

Table 3: Sign Test for Pu-238 at SU5

SU5-41D-051	0.320	0.090	+
SU5-41D-052	0.114	0.062	+
SU5-41D-053	3.180	0.090	+
SU5-41D-054	2.500	0.080	+
SU5-41D-055	0.290	0.050	+
SU5-41D-056	3.300	0.090	+
SU5-41D-057	0.980	0.090	+
SU5-41D-058	0.420	0.080	+
SU5-41D-059	**129.000**	**2.000**	-
SU5-41D-060	0.500	0.100	+
SU5-41D-061	0.097	0.082	+
SU5-41D-062	16.300	0.070	+
SU5-41D-063	3.520	0.080	+
SU5-41D-064	0.250	0.070	+
SU5-41D-065	1.970	0.050	+
SU5-41D-066	2.100	0.050	+
SU5-41D-068	21.600	0.070	+
SU5-41D-069	4.150	0.080	+
SU5-41D-070	1.860	0.070	+
SU5-41D-071	26.300	0.080	+
SU5-41D-072	6.770	0.070	+
SU5-41D-073	2.820	0.090	+
SU5-41D-074	3.240	0.070	+
SU5-41D-075	20.200	0.070	+
SU5-41D-076	0.051	0.051	+
SU5-41D-078	0.930	0.070	+
SU5-41D-079	1.200	0.060	+
SU5-41D-080	3.260	0.050	+
SU5-41D-081	0.171	0.055	+
SU5-41D-082	4.330	0.040	+
SU5-41D-083	0.098	0.064	+
SU5-41D-084	0.600	0.080	+
SU5-41D-085	1.280	0.060	+
SU5-41D-086	3.640	0.070	+
SU5-41D-087	1.590	0.070	+
SU5-41D-088	0.222	0.037	+
SU5-41D-089	0.300	0.050	+
SU5-41D-090	0.510	0.060	+
SU5-41D-091	0.151	0.083	+

Average:	11.72
Std. Deviation:	17.94
Maximum:	129.00
Cleanup Obj.:	55.00
Hot Spot:	165
N:	89
S+:	88
k Crit:	53
P/F:	**PASS**

Table 4: Recalculation of N for SU5

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
0.472	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
17.94	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	tritium	7580	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.33	*(s)*	
Sign p	0.884930		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.60
Delta	0.40
(s)	0.33
Rel Shift	1.204
(N)	12.00

Pu-238 Area Factor (N) 918

Sample Grid Spacing

SU Area	1,587.88	m^2
Grid Length	10.7	m
Grid Height	9.3	m

Sample Grid Spacing

SU Area	17074	ft^2
Grid Length	35.1	ft
Grid Height	30.4	ft

PRSs 41 ditch

Survey Unit 5

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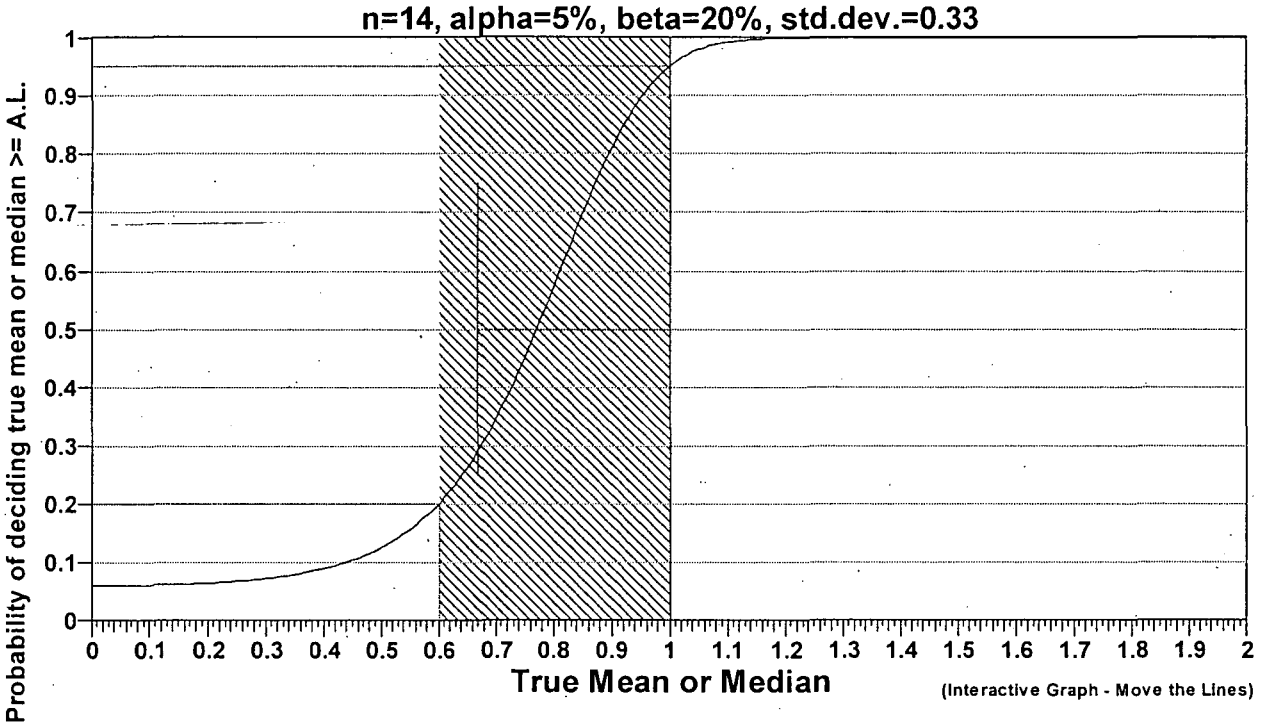
Table 5: Retro Power Curve SU5



APPENDIX C

POST-EX SUD EXCERPTS

Survey Unit Design (SUD)

Project: **PRS 67, 41 Ditch & PRS 363; Open Drainage Ditch**

Note: the 41 Ditch verification is not included herein and will be presented in the PRS 441 Pre-Ex SUD.

Review & Approval

Project Engineer: Karen Arthur

Reviewer: James Fontaine

Reviewer:

Note: Verification samples were collected prior to approval of this Post-Ex SUD (Deviation from Standard VSAP), per Core Team approval, to facilitate the closure schedule.

document	Title
Fact Sheet	PRSs 67, 68, 69, & 70: Site Stormwater Drainage System; March 2004
RP	Site Stormwater Drainage System Removal Plan, Final, August 2004
WP	PRS 67, 41 Ditch, & PRS 363; Open Drainage Ditch ER/ST-04-012
VSAP	Standard Verification Sampling & Analysis Plan, Final, August 2004
Changes from Pre-Ex SUD:	
Fact Sheet	PRS 363- Plutonium-238 - Contaminated Area, Public Review Draft, September 2004

☐ **Pre-Excavation** or X **Post-Excavation**?

Summary of Changes (for Post-Excavation SUDs ONLY) (see following pages for details)	YES	NO	Comment
1. Did the COC(s) change?	x		See Item 3a
2. Did the grid size or N change?	x		See Item 6a
3. Did the classification change?		x	
4. Were bias/judgmental samples collected?	x		See Table 1 of Appendix II
5. Other significant change?		x	

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SUD Worksheet

Item 1	Summary of historic **information** relevant to SU: In general, systematic isolation of various segments of the Storm Drainage System (starting at the Asphalt pond), draining the isolated segments, sampling, removal of contaminated sediments or soil areas was accomplished. Contaminated soil in a portion of the area represented by the PRSs in the Work Plan has been previously remediated by the old D&D Group (area associated with the Waste Transfer System lines crossing the drainage ditch. Once the prerequisite planning and required preparations are complete, the actual removal will be performed with periodic verification and backfilling as the removal proceeds. Generally speaking, each phase will be completed or at least in transition prior to starting the next, although the project retains the authority to alter the sequencing if the situation warrants. The plan is to place all facets of the Storm Drainage System back into service upon completion of verification sampling. Most of the planned remediation projects, which supply storm water to this system, will be nearing completion and present a low possibility for recontamination. Those areas, which are not complete, will require monitoring of potential contamination sources and the appropriate storm water pollution prevention plans must be implemented to guard against cross-contamination/re-contamination. The Removal Plan identifies those prerequisite tasks to be done by others and provides instructions for work presented in Attachment A and B to the Removal Plan. Any risks or safety concerns are also noted; however, detailed task-by-task work instructions for work and health and safety is more fully addressed in the Work Package (Detailed Work Instructions) and the associated JSHA.
Item 2	Summary of historic **data** relevant to SU: The depth of contamination varies from the surface to a maximum of about 6 feet within the PRSs. Concentrations of Pu-238, the dominate radiological COC above CO (55 pCi/g), varied from non-detects to a maximum of 1198 pCi/g. The other listed radiological COCs found to be above COs were Pb-210 (one location at 34.95 pCi/g), Th-228 (at two locations with the maximum being 4.08 pCi/g), and Th-232 (at two locations with the maximum being 3.39 pCi/g). The listed chemical COC for PRS 67 is benzo(a)pyrene. The maximum sediment sample result was 8.0 mg/kg and the CO is 4.8 mg/kg. Benzo(a)pyrene is present in urban environments as a result of incomplete combustion in motor vehicles and is a component of asphalt based products. One sample result located at the discharge pipe from the asphalt pond (PRS 68) was above the CO. It should be noted that the result is below the maximum seen in the Miami-Erie Canal background levels (Dec. 2002). Because benzo(a)pyrene is a component of asphalt based products and incomplete combustion, it is expected to be found in PRS 67 which conveys drainage from asphalt surfaces (i.e., roads and an asphalt pond). Accordingly, benzo(a)pyrene should not be considered a COC however, a bias sample will be taken at the aforementioned location following remedial activities in this area. Historic and RASS sampling (during the removal action) are depicted and listed in Attachment A. **Changes from Pre-Ex SUD**: A bias sample was collected and analyzed for benzo(a)pyrene per the Pre-Ex SUD. The result of 390 ug/kg is well below the CO of 4,080 ug/kg. Therefore, benzo(a)pyrene will not be considered a COC.

Item 3a

COC	BASIS	(pCi/g) CO	HS	MAX	Offsite Analysis & Compendium Method gamma (A-015)	Iso Pu (A-012)	Iso Th (A-012)	Iso U (A-012)
Pu-238	Public Fact Sheet for PRSs 67, 68, 69, & 70: Site Stormwater Drainage System; Public Fact Sheet for PRS 363; Public Fact Sheet for PRS 41	55	165.13	1198		X		
Pb-210	Additional sampling event conducted October 25, 2004	7.4	19.8	34.95	X			
Th-228	Additional sampling event conducted October 25, 2004	2.6	4.8	4.08			X	
Th-232	Additional sampling event conducted October 25, 2004	2.1	3.5	3.39			X	

Analyses are to be performed per Mound Methods Compendium and COs (for surface samples/analysis i.e., bedrock, asphalt, concrete) as applicable. Compendium Method A-012 is Isotopic Uranium, Isotopic Plutonium, and Isotopic Thorium by Alpha Spectrometry and Compendium Method A-015 is Gamma Spectrometry. Surface samples/analysis are to be in accordance with MD-80036 OP 30005, 30007, and 30040. Hard surfaces will be swiped and gross alpha and beta measurements will be performed and compared to the most restrictive COC in Mound 2000 Work Plan Appendix A Table 1 (NUREG 1.86 Regulatory Guide). If the location fails to meet the most restrictive criteria then it will be sent to alpha spec for determination of the COC so the applicable, instead of the most restrictive, criteria can be applied.

Based on regulator concern about Th-230 not being a COC in PRS 67, but being a COC in remediation efforts in areas up gradient from PRS 67, RASS data of the material removed will be provided with the Post-Excavation SUD which will then be used to update the COC list, as appropriate.

Changes if any, from Pre-exc SUD: All samples will be analyzed onsite by gamma spec to address the Pb-210 concern. Use of onsite long count gamma spec analysis (Deviation from Standard VSAP) was approved by the Core Team.

RASS data of the material removed indicated that Th-230 and Ra-226 were the only additional COC present at unacceptable levels and therefore was added as a COC. In lieu of providing the RASS data per item 3a above, final verification data will be provided in the Data Report to document the cleanup criteria for Th-230 have been met.

Clarification: PRS 363 COC is Pu-238 only.

COC	BASIS	(pCi/g) CO	HS	MAX	Offsite Analysis & Compendium Method gamma (A-015)	Iso Pu (A-012)	Iso Th (A-012)	Iso U (A-012)
Ra-226	RASS sample results	2.9	4.7	>2.9	Onsite X			
Th-230	RASS sample results	2.8	4.6	8.2			X	

Item 3b	Chem basis for std dev, AM COCs/New COCs	See Item 2

Item 4	Classify Areas & provide justification	Selection	Class	Scan Coverage guidelines
	The Areas are classified as Class 1 due to remedial actions to be performed within the areas to address known contamination and due to the potential for radioactive contamination to be present outside of the remediated areas. Note: Given the geometry of the SUs it is not physically possible to achieve 100% scan coverage, therefore, a best effort will be given utilizing the standard VSAP, Final, August 2004, Section 4.4 Special Considerations. Surrogate sampling in lieu of scanning is planned for SU2 and SU3.	X	1	100%
			2	10-90%
			3	Judgmental

Changes if any, from Pre-exc SUD: NONE

Item 5	Subdivide areas into SUs	This SUD consists of five SUs:
	See Attachment A for Data	SU1 is behind the historical location of Building 22 and is a remediated area of approximately 5,790 sq. ft.
	See Attachment B for SUs	SU2 encompasses the location from item 3.1 (approximately 25 feet by 25 feet) and one location from item 3.6 (approximately four feet by four feet) from the Work Package. The total area is approximately 9,956 sq. ft. SU3 encompasses two locations from item 3.6 (each approximately four foot by four foot) from the Work Package. The total area is approximately 17,081 sq. ft. and includes PRS 363. SU4 encompasses five locations from item 3.6 (each approximately four foot by four foot) from the Work Package. The total area is approximately 18,193 sq. ft. SU5 encompasses the location of item 3.12 (approximately 45 foot by 120 foot) from the Work Package. The total area is approximately 15,607 sq. ft. and includes PRS 41 Ditch.

Changes if any, from Pre-exc SUD:

PRS 363 was excavated and verified apart from SU3. Excavation and verification of sample location 12N15, which is located in PRS 363, took place before excavation and verification of any of the SUs included in this Post-Ex SUD.

SU2 and SU3 were sampled and remediated. Results above CO were excavated and chased, resulting in a total excavated area of 13,762 square feet; which was removed from SU2 and SU3 and subsequently identified as SU6, see Figure 5. SU6 was verified per agreement of the Core Team.

Sampling results for the western portion of SU4 will be addressed/verified as part of the PRS 441 SUD as shown on Figure 4.

SU5 was not sampled and will be verified as part of the PRS 441 SUD.

Item 6a	Calculations / Rad

1. Calculate the (s) for each COC listed in Item 3a above: See Attachment B.
2. Number of Samples (N): See Attachment B.

Spreadsheet Calculated = 12 samples based upon the data for all five SUs.

SU1 Scanning MDC (Area Factor) corrected = 198 samples, SU2 Scanning MDC (Area Factor) corrected = 341 samples

SU3 Scanning MDC (Area Factor) corrected = 586 samples, SU4 Scanning MDC (Area Factor) corrected = 624 samples

SU5 Scanning MDC (Area Factor) corrected = 535 samples

Visual Sample Plan (VSP) 15 foot triangular grid:

SU1 Calculated = 30 Selected Samples (on Map) = **31**, SU2 Calculated = 52 Selected Samples (on Map) = **51**

SU3 Calculated = 88 Selected Samples (on Map) = **92**, SU4 Calculated = 94 Selected Samples (on Map) = **96**

SU5 Calculated = 81 Selected Samples (on Map) = **81**

The determination of the number of samples is consistent with section 3.7 of the standard VSAP, which provides a default grid spacing for SUs where PU-238 is the primary driver in the removal action.

Sample locations were selected by VSP with sampling goals of finding a Hot Spot utilizing a 15-foot triangular grid with a random starting point. Additional samples (bias) were chosen via judgmental sampling. Sample locations will be surveyed at the time of sampling or closely following.

A total of 351 sample locations will be assessed.

Note: Due to safety concerns of placing an individual in the excavation, FSS side wall sampling will be accomplished by scraping the sidewall with an excavator bucket and subsequent sampling of the material in the bucket in accordance with the procedures established the standard VSAP, Final, August 2004, Section 4.4 Special Considerations.

Changes if any, from Pre-exc SUD:

The SU6 spreadsheet, and revised SU2, SU3, and SU4 spreadsheets are in Appendix II.

Item 6b	Calculations/Chem, Std dev, Number of Samples	See Item 2

Changes if any, from Pre-exc SUD: See changes from Pre-Ex SUD for Item 2.

Item 7	Grid spacing	From Attachment B. Triangular 15 foot grid, as laid out by Visual Sample Plan.

	Changes if any, from Pre-exc SUD: NONE	
Item 8	QA/QC: 1/20 via field duplicate in accordance with Mound Methods Compendium. Q-002 Chain-of-Custody Procedures Q-003 Documentation Requirements Q-004 Laboratory Data Reduction Q-006 Validation of Laboratory Data Packages Q-007 Data Assessment Q-008 Data Integrity Verification Q-010 Electronic Data Deliverable Format Specifications – MEIMS Std. ... S-001 General Instructions for Field Personnel S-002 Soil Sampling With a Spade and Scoop S-028 Sample Control and Documentation S-029 Guide to Handling, Packaging, and Shipping of Samples and Method Q-002	
Item 9	Bias/judgement samples (Additional bias samples are always within the discretion of the EPA.)	Bias samples have been chosen at the locations of small removal areas (e.g., Work Package item 3.6 dig areas) and are denoted by "Type" = "Manual" on the page that provides the sample location coordinates in Attachment B.

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Item 10 Not otherwise covered.../ comments

Site policy requires performance of onsite soil screening (NaI or germanium) on verification samples slated for offsite analysis and evaluation of the results prior to shipment. This analysis will generally be performed on a split of the verification sample containerized in an EPA dish (approximately 500 mL) but may be performed on the actual verification sample as long as containerization requirements are maintained for the offsite lab. Count time of the analysis will be sufficient to meet the cleanup objectives (COs) of the contaminants of concern (COCs) requiring verification.

If there is an insufficient volume of material to fill an EPA dish within a 1m x 1m square centered on the proposed sample location, due to bedrock or obstruction (such as a structure, foundation, concrete, pavement/asphalt, large rock formations, utility bank, etc. which is not to be removed), then sediment/soil analysis will not be performed. In lieu of a sediment/soil analysis result, RadCon will survey the surface per COs and provide documentation thereof in an RSDS. Potentially impacted work area atop the excavation, where excavated sediment/material was loaded into haulers, and are not hard surfaces (e.g., concrete and asphalt) will be shown within the appropriate SU on the Post-Excavation SUD. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are hard surfaces (e.g., concrete and asphalt) will be surveyed and released per RadCon procedures. The RSDS(s) will be included as documentation. Any final sample location that does not meet the surface release criteria will be submitted to the Core Team for concurrence or determination of further action.

Accessibility for sampling is a constraining factor. Sampling of the excavation walls may be impeded due to excavation wall accessibility by both personnel and equipment. Sidewall sampling will be performed via excavator sampling. Accessibility to the excavation floor by personnel may be impeded due to the width of the excavation not being sufficient to use a man-box for access. Where sufficient volume of soil exists and is accessible with an excavator a soil sample will be taken otherwise a surface survey (swipe and direct) will be performed utilizing methods available from atop the excavation. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are not hard surfaces (i.e., concrete and asphalt) are shown as part of the SU. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are hard surfaces (i.e., concrete and asphalt) will be surveyed and released per RadCon procedures in accordance **with DOE Order 5400.5 and Mound 2000 Work Plan Appendix A Table 1**.

In-process sampling events (Characterization and Remedial Action Support Survey (RASS) samples) will be conducted during the entire PRS remediation. Those samples will undergo gamma spectrometry analysis to guide actions. RASS sampling of the remediated areas were used to determine if the FSS (verification) sampling could be conducted. For SU2 and SU3 scanning will be accomplished via surrogate sampling on a 15 foot triangular grid which is offset from the final status survey grid coordinates by 7.5 feet easting (15/2) and 6.495 feet northing ((15*0.866)/2). If a value is observed to be above the CO the area will be excavated to "clean" sampling locations and then re-sampled. See Attachment C for surrogate sampling location information.

The SUs will be laid out and walked down prior to the approval of the Post-Excavation SUD. At this time any changes due to bank or stream location considerations will be investigated, negotiated, and incorporated.

The plan is to place all facets of the Storm Drainage System back into service upon completion of verification sampling. Most of the plant remediation projects, which supply storm water to this system, will be nearing completion and present a low possibility for recontamination. Those areas, which are not complete, will require monitoring of potential contamination sources and the appropriate storm water pollution prevention measures/plans must be put in place to guard against cross-contamination.

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APPENDIX III

41-Ditch (SU5)

ADDITION TO PRS 67, 41 DITCH & PRS 363; OPEN DRAINAGE DITCH POST-EX SUD FINAL

- Explanation for Appendix III and any changes
- PRS 67 Post-Ex SUD Final Change Page
- Figures:
  Figure 1: Map of SU5 (41-Ditch) and Survey Locations (Previously Provided to Regulators)
  Figure 2: SU5 (41-Ditch) in Relation to Surrounding PRS Survey Units
- Table 1: Pre-Ex SUD Comparison to Post-Ex SUD Table (Previously Provided to Regulators)
- Revised MARSSIM Spreadsheet for recalculation of N for SU5
- Final Status Survey Points Geographical Coordinates and Location Name (Label)

Explanation for Appendix III to PRS 67 Post-Ex SUD (SU5 Only)

Due to the Department of Energy revising the contract scope for CH2M Hill to exclude PRS 441 it is necessary to change where SU5 (41-Ditch and Lower PRS 67) Post-Excavation SUD information would be placed. This in conjunction with Ohio EPA Comment 1 (12/16/05): "Please update the cover of the SUD to reflect current conditions as follows: "Note: the 41 Ditch verification is not included herein and will be presented in the PRS 67 Post-Ex SUD for SU5."" has precipitated Appendix III to the PRS 67 Post-Ex SUD Final. The Text Box with an arrow pointing to 41 Ditch on page one of the PRS 67 Post-Ex SUD Final should read "Note: the 41 Ditch and Lower PRS 67 verification is contained herein as Appendix III. The west most section of PRS 67 SU4 (remediation was put on hold due to potentially jeopardizing the integrity of the rail spur staging area (PRS 441)) shall be contained in the Post-Excavation SUD for PRS 441 as SU10."

RASS data obtained during the remedial action did not add any additional contaminants of concern. The area of SU5 did change from the Pre-Ex SUD due to expanding the area to ensure total coverage of the 41-ditch from the north concrete culvert (where 41-Ditch begins) to where former PRS 67 SU5 butts against PRS 70 (SU2 and 23). The SU5 boundary also encompasses the areas where removed materials were loaded into haulers for transporting to the rail spur. Due to the larger SU5 area the Area Factor adjusted (N) and the number of samples (based upon a 15-foot triangular grid) increased.

Survey Unit Design (SUD)

FINAL

Project: **PRS 67, 41 Ditch & PRS 363; Open Drainage Ditch**

Note: the 41 Ditch and Lower PRS 67 (SU5) verification is contained herein as Appendix III. The west most section of PRS 67 SU4 (remediation was put on hold due to potentially jeopardizing the integrity of the rail spur staging area (PRS 441)) shall be contained in the Post-Excavation SUD for PRS 441 as SU10.

Review & Approval

Project Engineer: Karen Arthur _____

Reviewer: James Fontaine CMline for J. Fontaine

Reviewer: _____

Note: Verification samples were collected prior to approval of this Post-Ex SUD (SU1 - SU4 , Deviating from the Standard VSAP), per Core Team approval, to facilitate the closure schedule.

document	Title
Fact Sheet	PRSs 67, 68, 69, & 70: Site Stormwater Drainage System; March 2004
RP	Site Stormwater Drainage System Removal Plan, Final, August 2004
WP	PRS 67, 41 Ditch, & PRS 363; Open Drainage Ditch ER/ST-04-012
VSAP	Standard Verification Sampling & Analysis Plan, Final, August 2004
Changes from Pre-Ex SUD: Fact Sheet	PRS 363- Plutonium-238 - Contaminated Area, Public Review Draft, September 2004

☐ **Pre-Excavation** or X **Post-Excavation**? (Appendix III SU5 Only)

Summary of Changes (for Post-Excavation SUDs ONLY) (see following pages for details)	YES	NO	Comment
1. Did the COC(s) change?		x	
2. Did the grid size or N change?	x		See Item 6a
3. Did the classification change?		x	
4. Were bias/judgmental samples collected?		x	
5. Other significant change?		x	

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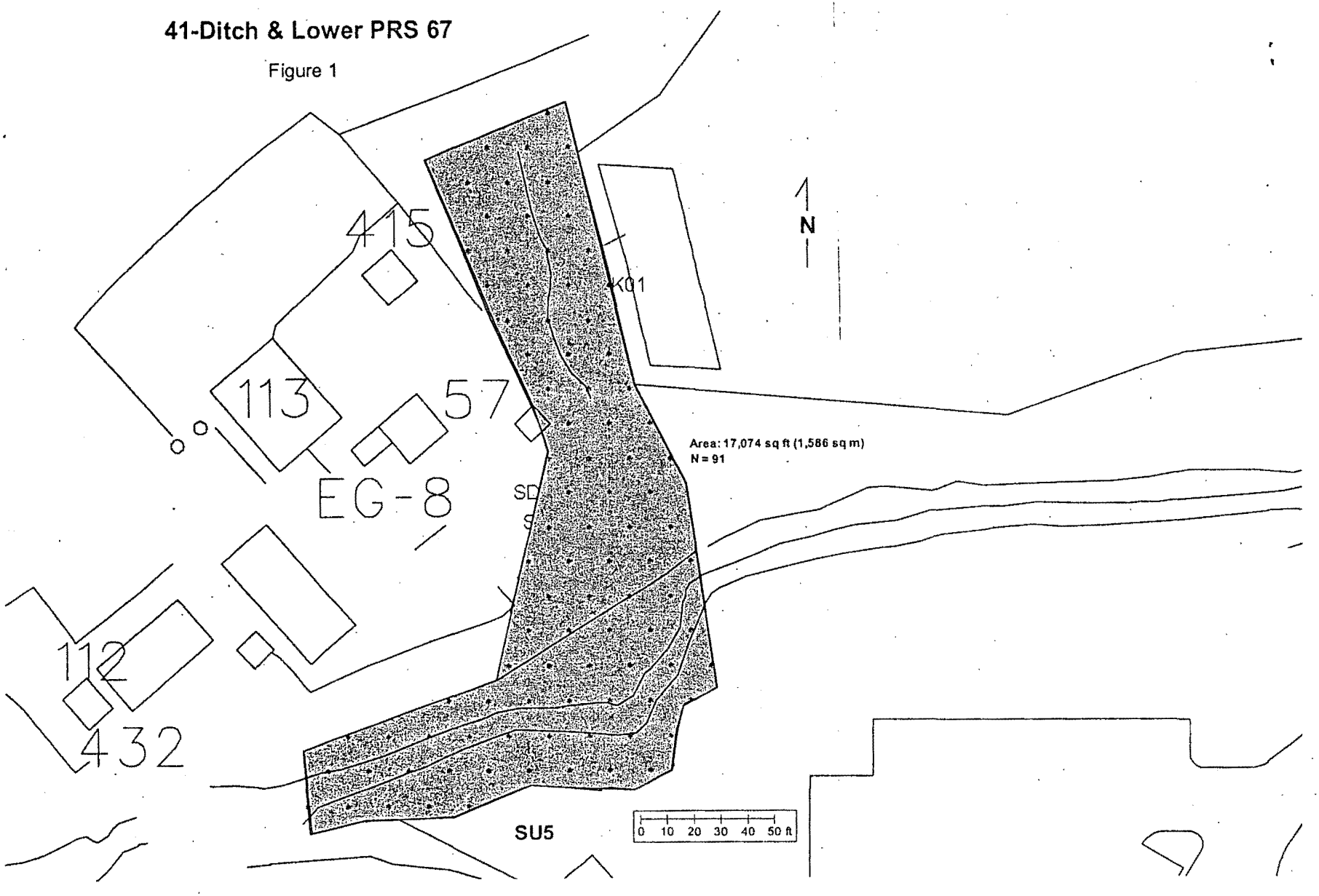
41-Ditch & Lower PRS 67

Figure 1



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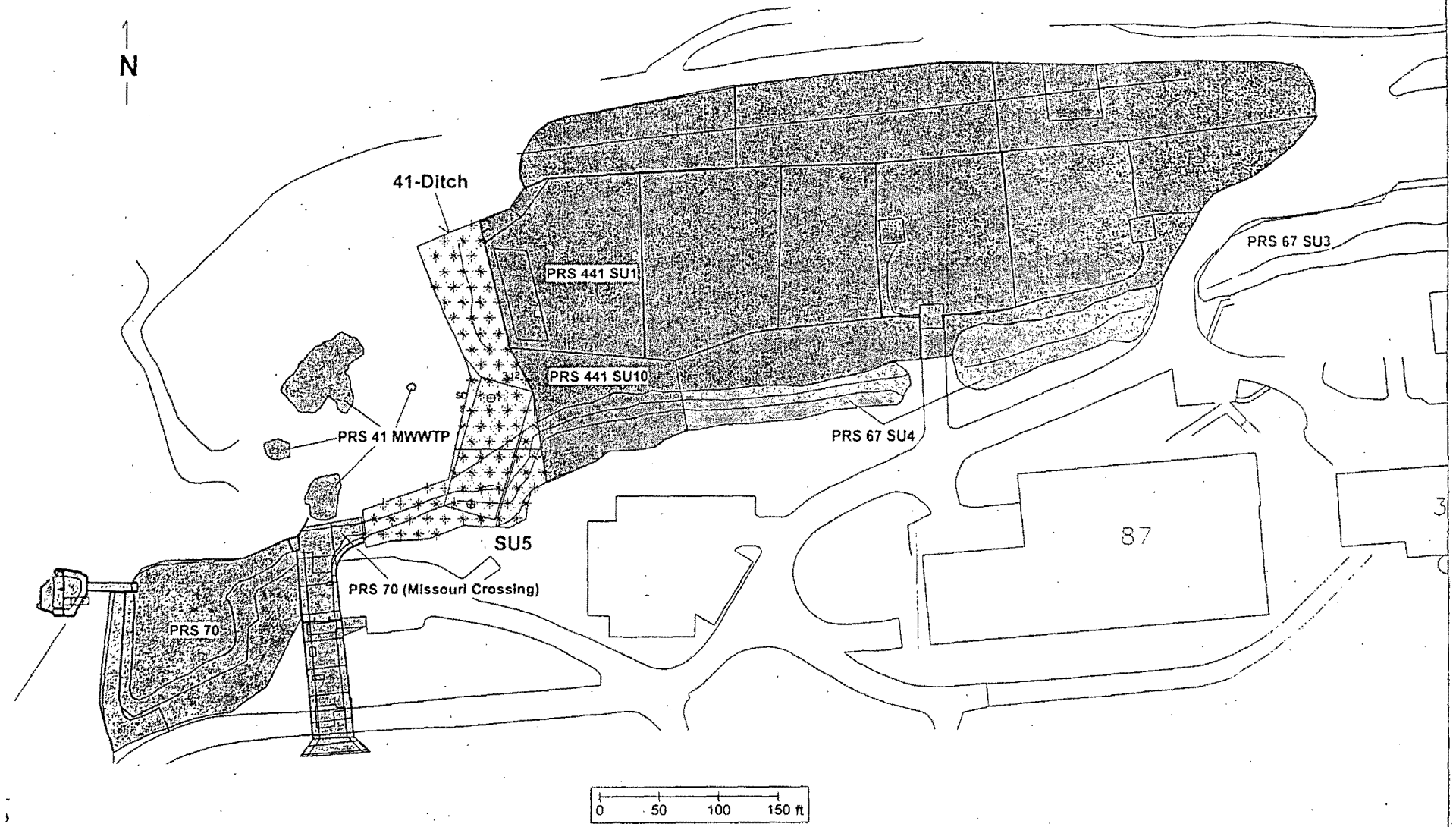
SU5 (41-Ditch)

Figure 2 - Proximity of Surrounding PRSs



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PRS 67 SU5 41-Ditch (Comparison)
Table 1

Pre Ex SUD				Post Ex SUD				
SU#	Location	COC	Proposed Area of Verification (sq ft)	SU#	Location	COC	Off-Site Analysis	Actual Area of Verification (sq ft)
5	Surface soil area developed in the Pre-Ex SUD	Pb-210 Pu-238 Th-228 Th-232	15,607	5	Surface soil area developed in the Pre-Ex SUD plus area expanded to encompass gap between PRS 67 and PRS 70	Pb-210 Pu-238 Th-228 Th-232	Gamma Spec Iso-Pu Iso-Th	17,074

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Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
0.4166	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
11.5901	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
0.309	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
0.547	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.36 (s)		
Sign p	0.903199		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.36
Rel Shift	1.389
(N)	12.00

Area Factor adjusted (N) 585

15-foot triangular grid will be used per section 3.7 of the Standard VSAP
Revised N = 91 based upon the 15-foot triangular grid

Sample Grid Spacing

SU Area	1,586	m^2	SU Area	17,074	ft^2
Grid Length	10.7	m	Grid Length	35.1	ft
Grid Height	9.3	m	Grid Height	30.4	ft

PRS	67	Survey Unit	5

The Effective (s) and Estimated (N) - Sign Test did not change from the Pre-Ex SUD
Historical data presented in the Pre Excavation SUD was used to calculate N

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Area: PRS11 SU5 & 41-Ditch

X Coord	Y Coord	Label
1464200.811	597769.003	SU5-41D-001
1464215.811	597769.003	SU5-41D-002
1464230.811	597769.003	SU5-41D-003
1464245.811	597769.003	SU5-41D-004
1464260.811	597769.003	SU5-41D-005
1464208.311	597781.993	SU5-41D-006
1464223.311	597781.993	SU5-41D-007
1464238.311	597781.993	SU5-41D-008
1464253.311	597781.993	SU5-41D-009
1464268.311	597781.993	SU5-41D-010
1464283.311	597781.993	SU5-41D-011
1464298.311	597781.993	SU5-41D-012
1464313.311	597781.993	SU5-41D-013
1464328.311	597781.993	SU5-41D-014
1464215.811	597794.984	SU5-41D-015
1464230.811	597794.984	SU5-41D-016
1464245.811	597794.984	SU5-41D-017
1464260.811	597794.984	SU5-41D-018
1464275.811	597794.984	SU5-41D-019
1464290.811	597794.984	SU5-41D-020
1464305.811	597794.984	SU5-41D-021
1464320.811	597794.984	SU5-41D-022
1464335.811	597794.984	SU5-41D-023
1464253.311	597807.974	SU5-41D-024
1464268.311	597807.974	SU5-41D-025
1464283.311	597807.974	SU5-41D-026
1464298.311	597807.974	SU5-41D-027
1464313.311	597807.974	SU5-41D-028
1464328.311	597807.974	SU5-41D-029
1464343.311	597807.974	SU5-41D-030
1464275.811	597820.965	SU5-41D-031
1464290.811	597820.965	SU5-41D-032
1464305.811	597820.965	SU5-41D-033
1464320.811	597820.965	SU5-41D-034
1464335.811	597820.965	SU5-41D-035
1464350.811	597820.965	SU5-41D-036
1464283.311	597833.955	SU5-41D-037
1464298.311	597833.955	SU5-41D-038
1464313.311	597833.955	SU5-41D-039
1464328.311	597833.955	SU5-41D-040
1464343.311	597833.955	SU5-41D-041
1464290.811	597846.945	SU5-41D-042
1464305.811	597846.945	SU5-41D-043
1464320.811	597846.945	SU5-41D-044
1464335.811	597846.945	SU5-41D-045
1464283.311	597859.936	SU5-41D-046
1464298.311	597859.936	SU5-41D-047
1464313.311	597859.936	SU5-41D-048
1464328.311	597859.936	SU5-41D-049
1464343.311	597859.936	SU5-41D-050

Area: PRS11 SU5 & 41-Ditch

X Coord	Y Coord	Label
1464290.811	597872.926	SU5-41D-051
1464305.811	597872.926	SU5-41D-052
1464320.811	597872.926	SU5-41D-053
1464335.811	597872.926	SU5-41D-054
1464298.311	597885.917	SU5-41D-055
1464313.311	597885.917	SU5-41D-056
1464328.311	597885.917	SU5-41D-057
1464290.811	597898.907	SU5-41D-058
1464305.811	597898.907	SU5-41D-059
1464320.811	597898.907	SU5-41D-060
1464335.811	597898.907	SU5-41D-061
1464298.311	597911.897	SU5-41D-062
1464313.311	597911.897	SU5-41D-063
1464328.311	597911.897	SU5-41D-064
1464290.811	597924.888	SU5-41D-065
1464305.811	597924.888	SU5-41D-066
1464320.811	597924.888	SU5-41D-067
1464283.311	597937.878	SU5-41D-068
1464298.311	597937.878	SU5-41D-069
1464313.311	597937.878	SU5-41D-070
1464275.811	597950.868	SU5-41D-071
1464290.811	597950.868	SU5-41D-072
1464305.811	597950.868	SU5-41D-073
1464268.311	597963.859	SU5-41D-074
1464283.311	597963.859	SU5-41D-075
1464298.311	597963.859	SU5-41D-076
1464313.311	597963.859	SU5-41D-077
1464260.811	597976.849	SU5-41D-078
1464275.811	597976.849	SU5-41D-079
1464290.811	597976.849	SU5-41D-080
1464305.811	597976.849	SU5-41D-081
1464268.311	597989.84	SU5-41D-082
1464283.311	597989.84	SU5-41D-083
1464298.311	597989.84	SU5-41D-084
1464260.811	598002.83	SU5-41D-085
1464275.811	598002.83	SU5-41D-086
1464290.811	598002.83	SU5-41D-087
1464268.311	598015.82	SU5-41D-088
1464283.311	598015.82	SU5-41D-089
1464298.311	598015.82	SU5-41D-090
1464290.811	598028.811	SU5-41D-091

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Survey Unit Design (SUD)

Final

Project: **Mound Wastewater Treatment Plant (Buildings 57, 112, 113, 415, 432, and EG-8; PRSs 43 through 56 and part of PRS41)**

Review & Approval

Project Engineer: Karen Arthur _____

Reviewer: Jim Fontaine _____

Reviewer: _____

document	Title
AM	MWWTP Complex Removal Action (PRS 43-56 and part of PRS41)
WP	Demolition of MWWTP (Bldg 57, 112, 113, 415, 432, & EG-8)
VSAP	Standard Verification Sampling & Analysis Plan, Final, August 2004
Fact Sheet	PRS 41

☐ **Pre-Excavation** or ☒ **Post-Excavation**

Summary of Changes (for Post-Excavation SUDs ONLY) (see following pages for details)	YES	NO	Comment
1. Did the COC(s) change?	x		Added Ra-226
2. Did the grid size or N change?	x		N changed from 9 to 10
3. Did the classification change?		x	
4. Were bias/judgmental samples collected?	x		13 collected
5. Other significant change?		x	

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SUD Worksheet

Acronyms

Ac	Actinium
AM	Action Memorandum
Bi	Bismuth
Co	Cobalt
CO	Cleanup Objective
COC	Contaminant of Concern
Chem	Chemical
Cs	Cesium
DOE	Department of Energy
dev	deviation
Ex	excavation
Iso	Isotopic
EG	emergency generator
EPA	Environmental Protection Agency
FIDLER	field instrument for the detection of low energy radiation
FSS	Final Status Survey
Hg	mercury
HS	Hot Spot
Iso	isotopic
m	meter
MARSSIM	Multi – Agency Radiation Survey and Site Investigation Manual
MD	Mound Document
MDC	Minimum Detectable Concentration
MEIMS	Mound Environmental Information Management System
mL	milli liters
MWWTP	Mound Wastewater Treatment Plant
N	number of samples
NA or N/A	not applicable
NaI	sodium idodie
pCi/g	pico-Curie(s) per gram
PRS	Potential Release Site
Pu	Plutonium
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action/Removal Action
RadCon	Radiological Control
Ra	Radium
RASS	Remedial Action Support Survey
RSDS	Radiological Survey Data Sheet
(s) or s	effective standard deviation (MARSSIM)
sq. ft.	square feet
std	standard
SU	Survey Unit
SUD	Survey Unit Design
Th	Thorium
U	Uranium
VSAP	Verification Sampling and Analysis Plan
VSP	Visual Sample Plan
WP	Work Package/Work Plan

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Item	
Item 1	Summary of historic **information** relevant to SU: The MWWTP Complex was used to treat sanitary waste prior to discharge from the site. Sample analysis of soil surrounding the complex and sludge from the complex revealed three isotopes to be above cleanup objectives. These isotopes are Pu-238, Th-232, and Ra-228.
Item 2	Summary of historic **data** relevant to SU: See Appendix A

Item 3a

COC	BASIS	(pCi/g) CO	(pCi/g) HS	(pCi/g) MAX	Iso Pu (A-012)	Iso Th (A-012)	Gamma Spec (A-015)
PU-238	Results from soil samples above Cleanup Objective	55	165	1235	X		
Th-232	Results from soil samples above Cleanup Objective	2.1	3.5	63		X	
Ra-228	Results from sludge samples above Cleanup Objectives	2.07	6.21	2.37			X

COCs were determined by identifying analytes with historic soil results or sludge results exceeding Cleanup Objectives, located within 15 feet of the Mound Wastewater Treatment Plant.
Analyses of COCs in surface soil are to be performed per Mound Methods Compendium as applicable. Pu-238 and Th-232 will be analyzed by Compendium Method A-012, which is Alpha Spectroscopy for Isotopic Uranium, Isotopic Plutonium, and Isotopic Thorium. Ra-228 will be analyzed by Compendium Method A-015, which is Gamma Spectroscopy. Ra-228 appears in the same spectroscopy line as Ac-227, which is an analyte called out in A-015. Surface samples/analysis are to be in accordance with MD-80036 OP 30005, 30007, 30040 for the FIDLER.

Changes if any, from Pre-exc SUD:

Ra-226 added as a COC based on RASS results. Ra-226 CO = 2.9 pCi/g, HS = 4.7 pCi/g, analysis via A-015 gamma spec.

Item		
Item 3b	Chem basis for std dev, AM COCs/New COCs	Known chemicals and materials used in the MWWTP were Sodium Hypochlorite, which was stored in Building 432, and fly ash, which was stored in Building 415. No spills were reported for chemicals and materials used in the MWWTP. Sodium Hypochlorite is the same as chlorine bleach, which breaks down into table salt and oxygen. Therefore, no analysis is planned for this chemical. The composition of fly ash is highly variable depending on the source of the coal, whose burning resulted in the fly ash. Mercury could be one possible constituent. RASS sampling in the area of Building 415, will be analyzed for mercury. If it is found, it will be added to the post-excavation SUD as a COC.

Changes if any, from Pre-exc SUD:

RASS data for mercury (Hg) and sample locations are shown in Attachment II. Hg not detected above Hazard Index = 1 criteria, therefore not a COC.

Item 4

Classify Areas & provide justification

The area covered by this SUD includes the area to be excavated around the elevated soil samples. Because of the elevated soil samples, the SU has been classified as Class 1. Since SCR47 had elevated results at a depth of 12 feet, the layback area around the excavation will be 18 feet. The total area covered by the SUD is 1,481 sq. ft. A 4' x 4' area was included in the SU around the remaining elevated soil samples.

Selection	Class	Scan Coverage guidelines
SU 1	1	100%
N/A	2	

N/A	3	

Changes if any, from Pre-exc SUD:

To be consistent with PRS 41 verification efforts, SU1 was renamed as SU4.

The elevated historic sample locations were removed and chased. The total of excavation and loadout areas amounted to 5,439 square feet.

A summary of these changes is included in Table 1 and Figure 1 of Attachment II.

Item 5	Subdivide areas into SUs See Appendix A for Data See Appendix B for SU information	Since the area of the SU is less than the 17,500 sq. ft. threshold, only one survey unit was designated.

Item 6a

Calculations / Rad

1. Calculate the (s) for each COC listed above: See Appendix B.
2. Number of Samples (N): See Appendix B.

Spreadsheet Calculated = 9 samples based upon the data for SU1.

SU1 Scanning MDC (Area Factor) corrected = 46 samples

Visual Sample Plan (VSP) 15 foot triangular grid:

SU1 Calculated= 8; Selected Samples (on Map) = 9

Biased Samples at PRSs 43 to 56 = 14

The determination of the number of samples is consistent with section 3.7 of the standard VSAP, which provides a default grid spacing for SUs where PU-238 is the primary driver in the removal action.

Sample locations were selected by VSP with sampling goals of finding a Hot Spot utilizing a 15-foot triangular grid with a random starting point. Additional samples chosen via judgmental sampling. Sample locations will be surveyed at the time of sampling or closely following.

A total of 23 sample locations will be assessed.

Note: Some in-ground structures may be built into the ground by more than the 3 feet required for removal. For any of these structures that are open and accessible, RASS samples will be collected and analyzed. If contamination above clean-up objectives is encountered, the contaminated portion of the structures will be removed. If the resulting excavation is more than 4 feet deep, due to safety concerns of placing an individual in the excavation, FSS side wall sampling will be accomplished by scraping the sidewall with an excavator bucket and subsequent sampling of the material in the bucket in accordance with the procedures established the standard VSAP, Final, August 2004, Section 4.4 Special Considerations.

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	Changes if any, from Pre-exc SUD: See revised spreadsheet in Attachment II. A total of 32 verification samples will be collected as shown on Figure 1 of Attachment II. Bias samples were collected at the base of each inground structure per the Core Team approved Work Plan. These RASS data (walkovers and Soil Analysis Reports) are presented in RSDSs in Attachment II. All results are below CO. No further bias sampling required. See MWWTP Structure OSC Report, Draft Proposed Final, March 2006, Appendix F for as-left surface data.
Item 6b	Calculations/Chem, Std dev, Number of Samples NA, See Item 3b
	Changes if any, from Pre-exc SUD: NONE
Item 7	Grid spacing From Appendix B. Triangular 15 foot grid, laid out by Visual Sample Plan.
	Changes if any, from Pre-exc SUD: NONE.
Item 8	QA/QC: 1/20 via field duplicate in accordance with Mound Methods Compendium. Q-002 Chain-of-Custody Procedures Q-003 Documentation Requirements Q-004 Laboratory Data Reduction Q-006 Validation of Laboratory Data Packages Q-007 Data Assessment Q-008 Data Integrity Verification Q-010 Electronic Data Deliverable Format Specifications – MEIMS Std. ... S-001 General Instructions for Field Personnel S-002 Soil Sampling With a Spade and Scoop S-028 Sample Control and Documentation S-029 Guide to Handling, Packaging, and Shipping of Samples and Method Q-002
Item 9	Bias/judgment samples. (Additional bias samples are always within the discretion of the EPA.) Biased sample locations were located at PRS locations 43-56.
	Changes if any, from Pre-exc SUD: See change to Item 6a.

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Item	
10	Not otherwise covered comments Characterization sampling collected during removal of the slabs, piping, and other in-ground structures, will be used to convert this Pre-excavation SUD into the Post-excavation SUD. Site policy requires performance of onsite soil screening (NaI or germanium) on verification samples slated for offsite analysis and evaluation of the results prior to shipment. This analysis will generally be performed on a split of the verification sample containerized in an EPA dish (approximately 500 mL) but may be performed on the actual verification sample as long as containerization requirements are maintained for the offsite lab. Count time of the analysis will be sufficient to meet the cleanup objectives (COs) of the contaminants of concern (COCs) requiring verification. If there is an insufficient volume of material to fill an EPA dish within a 1m x 1m square centered on the proposed sample location, due to bedrock or obstruction (such as a structure, foundation, concrete, pavement/asphalt, large rock formations, utility bank, etc. which is not to be removed), then sediment/soil analysis will not be performed. In lieu of a sediment/soil analysis result, RadCon will survey the surface per COs and provide documentation thereof in an RSDS. Potentially impacted work areas near the excavation, where excavated material was loaded into haulers, and which are soil surfaces, are sampled within SU1. Potentially impacted work area near the excavation, including staging areas, where excavated materials were loaded into haulers, and which are hard surfaces (e.g., concrete and asphalt), will be surveyed and released per RadCon procedures in accordance with DOE Order 5400.5 and Mound 2000 Work Plan Appendix A Table 1. The RSDS(s) will be included in the data report as documentation. Any final sample location that does not meet the surface release criteria will be submitted to the Core Team for concurrence. In-process sampling events (Characterization and Remedial Action Support Survey (RASS) samples) will be conducted during slab and in-ground structure removal. Those samples will undergo gamma and (as needed) alpha spectrometry analysis to guide actions. RASS sampling of the remediated areas will be used to determine if the FSS (verification) sampling could be conducted. On site gamma spec typically provides results for: Co-60, Cs-137, Pb-210, Ra-226, Ac-227 (D), Th-230, Th-232 (D), Pu-238, and Am-241. In addition, any isotopes identified to be greater than their MDA (e.g., U-238, Bi-210m, etc.) will be reported on the analytical results sheet. Any exceedances of the CO associated with any isotope will constitute disposal as contaminated waste and evaluation for inclusion as a COC.
	Changes if any, from Pre-exc The Core Team inquired about the potential applicability of the PRS 41 Characterization Data Report to the current RA at the MWWTP. The PRS 41/64/417 Data Report, December 2002, Rev. 0 was previously reviewed and approved by the Core Team. A question was raised as to whether the soil boring that was not able to be installed during the characterization should be addressed now. Only one soil boring was not installed (B012). Per Variance 1 on Table 7 of the Data Report, B012, located in the area of the MWWTP, was eliminated from the plan. The placement of B012 was proposed as the least congested location among the utilities and structures in the immediate area; however, during sampling it was determined that sufficient distance from underground utilities was not available and therefore drilling in that location was not appropriate. In this case, characterization data was used to support or deny the need for a RA. The Core Team determined that a RA was required at PRS 41, thereby eliminating the need for further characterization. As well, a significant amount of additional information regarding the levels of contamination in that area was gained through the RA, walkover surveys, and RASS and bias sampling. The RA verification is addressed as part of this Post-Ex SUD. The characterization depth was 0-4 feet (anticipated depth to drum staging area). The following inground structures were removed to or beyond the 4 foot depth (see aerial photo in Attachment II): sludge Tanks 137 & 138, grit chamber Tank 101, comminutor Tank 102, equalization basin Tanks 103, 104, 105, & 106, aeration pit Tanks 107 & 108, wet well, chlorine contact basin Tanks 111 & 112, new clarifier Tank 122, and RAS pump pit.

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APPENDIX D

BACKFILL PACKAGE

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STD VSAP BACKFILL INFO

This information will be represented in the Data Report.

For: PRS 41 MWWTP (SU4 only)

Checklist:

(per Section 5.6 of Std VSAP, Final, Aug 04)

- ☑ final Graphic EXHIBIT 1
  (show sample locations & note any >CO and/or >HS)
- ☑ COC sample results Th 232, Ra 226, Ra 228, Pu 238
  (show DLs, HS, COs, and COC std deviation(s)) EXHIBIT 2
- ☑ recalc of N & retro curve EXHIBIT 3
- ☑ preliminary data were reviewed
  (Data Review & Validation Report will be submitted with the Data Report)
- ☑ Sign test & 95%UCL (per SU) EXHIBIT 4
  (not required if all results <CO, see pg 19/21 of VSAP)
- ☑ backfill is planned to begin on 27 April 06

From: (sign/date) 24 April 06

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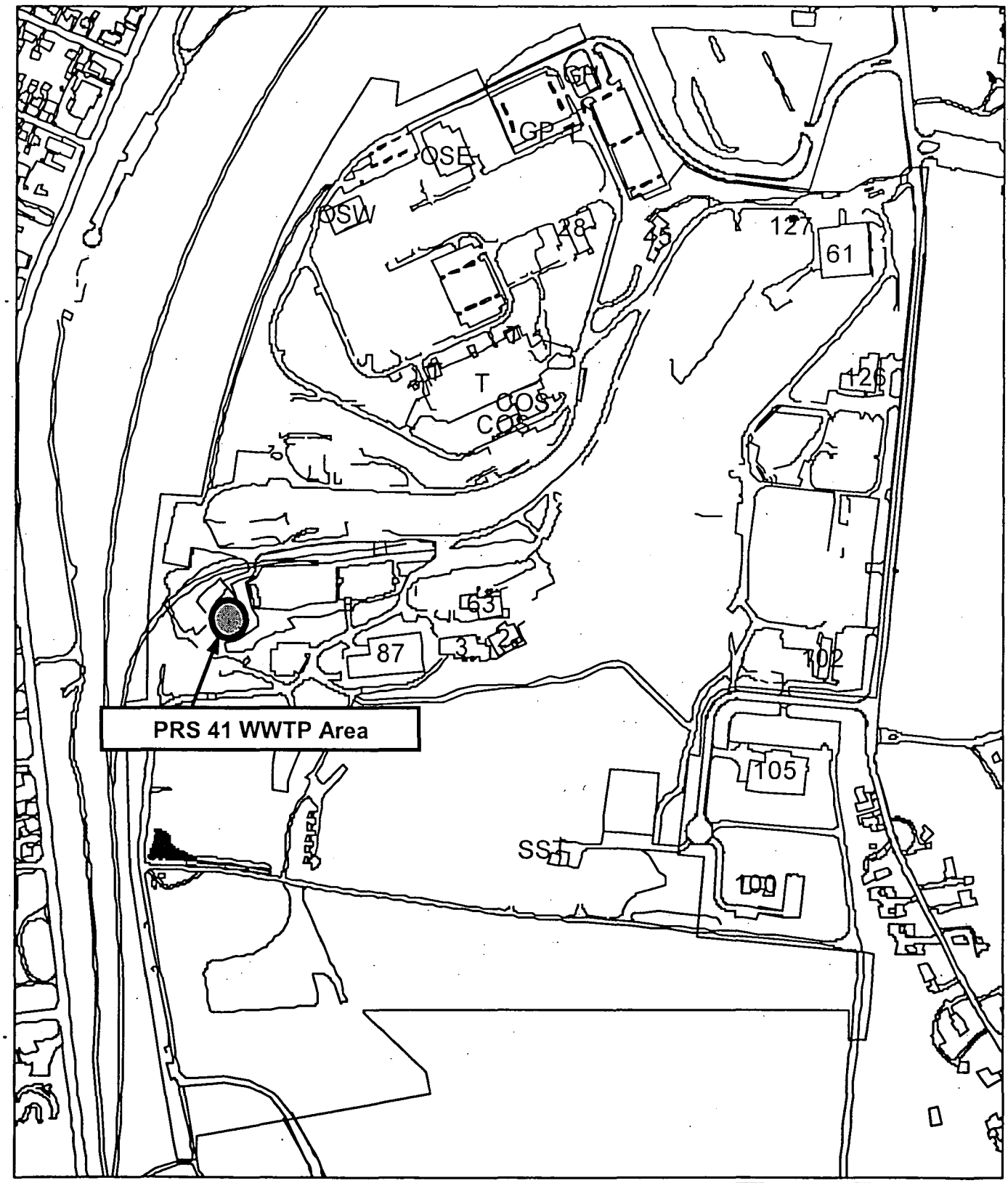

Scale in feet

0 200400 600 8001000

N

Figure 1:
Location of PRS 41 MWWTP Area

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EXHIBIT 1

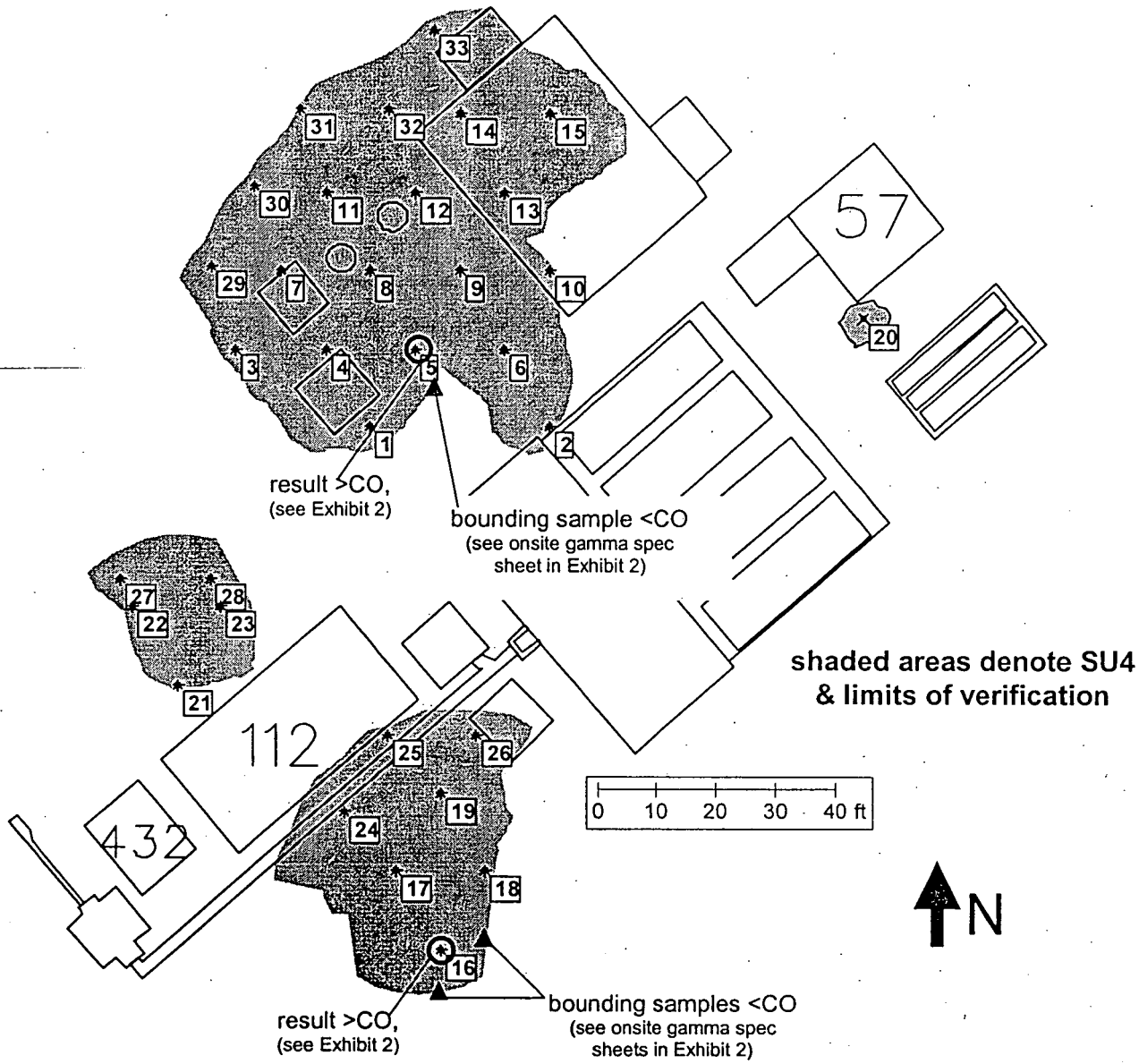

Figure 2: Verification Locations

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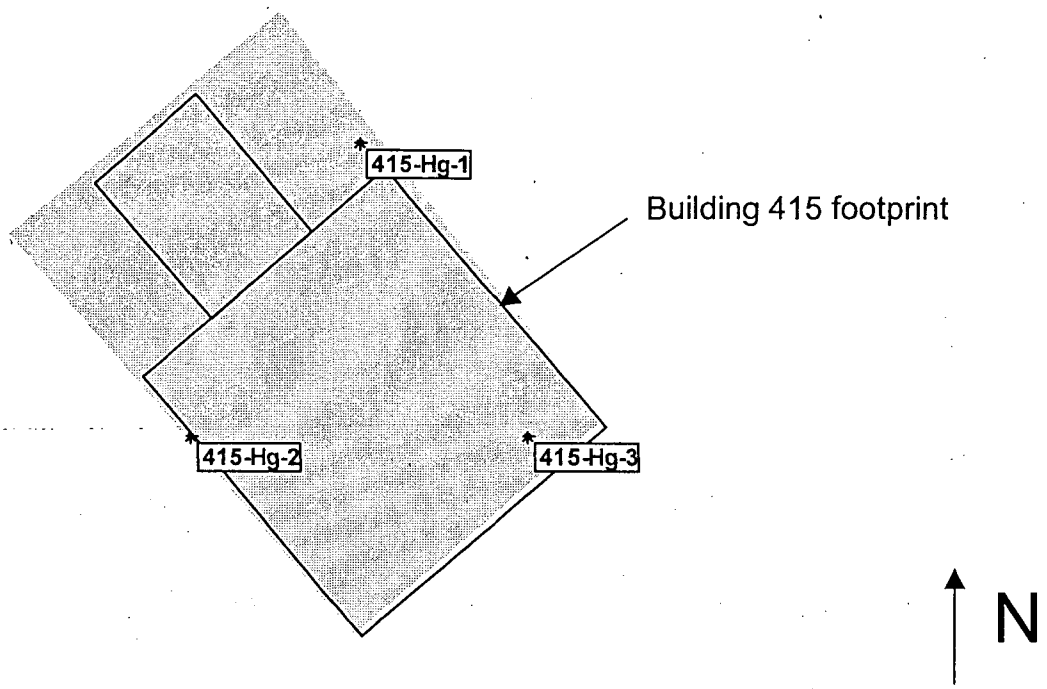
EXHIBIT 1



ID	Date	analyte	CO	Result	Lab Qual	MDC	Units
BD 415 HG-1	1/25/06	Mercury	63.9	0.036	U	0.036	MG/KG
BD 415 HG-2	1/25/06	Mercury	63.9	0.061		0.035	MG/KG
BD 415 HG-3	1/25/06	Mercury	63.9	0.071		0.042	MG/KG

U: not detected
MDC: minimum detectable concentration
CO: cleanup objective based on hazard index =1

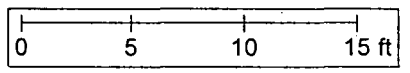


Figure 3: Hg sample locations at former Building 415

COC VERIFICATION RESULTS

Location	Result	Lab Qualifier	Units	Isotope	MDA	Value Used
SU4-41-001	-0.004	U	pCi/g	Plutonium-238	0.11	0.055
SU4-41-002	0.15		pCi/g	Plutonium-238	0.061	0.15
SU4-41-003	0.36		pCi/g	Plutonium-238	0.09	0.36
SU4-41-004	1.32		pCi/g	Plutonium-238	0.08	1.32
SU4-41-005	0.167		pCi/g	Plutonium-238	0.09	0.167
SU4-41-006	0.016	U	pCi/g	Plutonium-238	0.075	0.016
SU4-41-007	0.031	U	pCi/g	Plutonium-238	0.077	0.031
SU4-41-008	0.002	U	pCi/g	Plutonium-238	0.087	0.002
SU4-41-009	0.115		pCi/g	Plutonium-238	0.079	0.115
SU4-41-010	-0.025	U	pCi/g	Plutonium-238	0.09	0.045
SU4-41-011	0.065	U	pCi/g	Plutonium-238	0.092	0.065
SU4-41-012	0.27		pCi/g	Plutonium-238	0.08	0.27
SU4-41-013	-0.003	U	pCi/g	Plutonium-238	0.09	0.045
SU4-41-014	0.043	U	pCi/g	Plutonium-238	0.059	0.043
SU4-41-015	0.159		pCi/g	Plutonium-238	0.069	0.159
SU4-41-016A	24.3		pCi/g	Plutonium-238	0.08	24.3
SU4-41-017	0.153		pCi/g	Plutonium-238	0.062	0.153
SU4-41-018A	0.109	J	pCi/g	Plutonium-238	0.055	0.109
SU4-41-019	-0.01	U	pCi/g	Plutonium-238	0.063	0.0315
SU4-41-020	0.2		pCi/g	Plutonium-238	0.058	0.2
SU4-41-021	0.025	U	pCi/g	Plutonium-238	0.071	0.025
SU4-41-022	0.187		pCi/g	Plutonium-238	0.058	0.187
SU4-41-023	-0.009	U	pCi/g	Plutonium-238	0.062	0.031
SU4-41-024	0.32		pCi/g	Plutonium-238	0.04	0.32
SU4-41-025	0.079	J	pCi/g	Plutonium-238	0.038	0.079
SU4-41-026	0.128		pCi/g	Plutonium-238	0.066	0.128
SU4-41-027	0.067	U	pCi/g	Plutonium-238	0.071	0.067
SU4-41-028	0.231		pCi/g	Plutonium-238	0.04	0.231
SU4-41-029	-0.005	U	pCi/g	Plutonium-238	0.072	0.036
SU4-41-030	0.084	J	pCi/g	Plutonium-238	0.059	0.084
SU4-41-031	0.179		pCi/g	Plutonium-238	0.047	0.179
SU4-41-032	0.016	U	pCi/g	Plutonium-238	0.047	0.016
SU4-41-033	0.01	U	pCi/g	Plutonium-238	0.058	0.01

SU4 Pu-238

Standard Deviation	4.211
Max Result	24.3
Cleanup Objective	55
Hot Spot Criteria	165.13

MDA: minimum detectable activity
U: not detected J: estimated

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EXHIBIT 2

COC VERIFICATION RESULTS

Location	Result	Lab Qualifier	Units	Isotope	MDA	Value Used
SU4-41-001	0.59		pCi/g	Radium (226)	0.49	0.59
SU4-41-002	0.29	U	pCi/g	Radium (226)	0.36	0.29
SU4-41-003	0.51		pCi/g	Radium (226)	0.31	0.51
SU4-41-004	0.68		pCi/g	Radium (226)	0.42	0.68
SU4-41-005	0.71		pCi/g	Radium (226)	0.42	0.71
SU4-41-006	0.69		pCi/g	Radium (226)	0.49	0.69
SU4-41-007	0.6		pCi/g	Radium (226)	0.33	0.6
SU4-41-008	0.64		pCi/g	Radium (226)	0.4	0.64
SU4-41-009	0.47		pCi/g	Radium (226)	0.19	0.47
SU4-41-010	0.71		pCi/g	Radium (226)	0.24	0.71
SU4-41-011	0.76		pCi/g	Radium (226)	0.49	0.76
SU4-41-012	0.57		pCi/g	Radium (226)	0.18	0.57
SU4-41-013	0.68		pCi/g	Radium (226)	0.37	0.68
SU4-41-014	0.6		pCi/g	Radium (226)	0.42	0.6
SU4-41-015	0.63		pCi/g	Radium (226)	0.35	0.63
SU4-41-016A	0.82		pCi/g	Radium (226)	0.39	0.82
SU4-41-017	0.9		pCi/g	Radium (226)	0.54	0.9
SU4-41-018A	0.81		pCi/g	Radium (226)	0.41	0.81
SU4-41-019	0.4		pCi/g	Radium (226)	0.36	0.4
SU4-41-020	0.38		pCi/g	Radium (226)	0.33	0.38
SU4-41-021	0.67		pCi/g	Radium (226)	0.35	0.67
SU4-41-022	0.36		pCi/g	Radium (226)	0.29	0.36
SU4-41-023	0.61		pCi/g	Radium (226)	0.42	0.61
SU4-41-024	0.74		pCi/g	Radium (226)	0.2	0.74
SU4-41-025	0.4		pCi/g	Radium (226)	0.29	0.4
SU4-41-026	0.51		pCi/g	Radium (226)	0.18	0.51
SU4-41-027	0.41		pCi/g	Radium (226)	0.23	0.41
SU4-41-028	0.35		pCi/g	Radium (226)	0.27	0.35
SU4-41-029	0.58		pCi/g	Radium (226)	0.37	0.58
SU4-41-030	0.47		pCi/g	Radium (226)	0.39	0.47
SU4-41-031	0.56		pCi/g	Radium (226)	0.37	0.56
SU4-41-032	0.38		pCi/g	Radium (226)	0.3	0.38
SU4-41-033	0.44		pCi/g	Radium (226)	0.31	0.44

SU4 Ra-226

Standard Deviation	0.155
Max Result	0.9
Cleanup Objective	2.9
Hot Spot Criteria	4.7

MDA: minimum detectable activity
U: not detected J: estimated

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EXHIBIT 2

COC VERIFICATION RESULTS

Location	Result	Lab Qualifier	Units	Isotope	MDA	Value Used
SU4-41-001	0.91		pCi/g	Radium 228	0.47	0.91
SU4-41-002	0.93		pCi/g	Radium 228	0.24	0.93
SU4-41-003	0.72		pCi/g	Radium 228	0.25	0.72
SU4-41-004	0.34	U	pCi/g	Radium 228	0.54	0.34
SU4-41-005	0.98		pCi/g	Radium 228	0.4	0.98
SU4-41-006	0.94		pCi/g	Radium 228	0.44	0.94
SU4-41-007	0.22	U	pCi/g	Radium 228	0.31	0.22
SU4-41-008	0.41	U	pCi/g	Radium 228	0.56	0.41
SU4-41-009	1		pCi/g	Radium 228	0.47	1
SU4-41-010	1.1		pCi/g	Radium 228	0.47	1.1
SU4-41-011	1.92		pCi/g	Radium 228	0.36	1.92
SU4-41-012	0.59		pCi/g	Radium 228	0.37	0.59
SU4-41-013	0.21	U	pCi/g	Radium 228	0.25	0.21
SU4-41-014	0.59	U	pCi/g	Radium 228	0.62	0.59
SU4-41-015	0.72		pCi/g	Radium 228	0.3	0.72
SU4-41-016A	**2.48**		**pCi/g**	**Radium 228**	**0.47**	**2.48**
SU4-41-017	0.86		pCi/g	Radium 228	0.36	0.86
SU4-41-018A	1.55		pCi/g	Radium 228	0.36	1.55
SU4-41-019	0.91		pCi/g	Radium 228	0.39	0.91
SU4-41-020	0.29	U	pCi/g	Radium 228	0.53	0.29
SU4-41-021	1.48		pCi/g	Radium 228	0.37	1.48
SU4-41-022	0.2	U	pCi/g	Radium 228	0.39	0.2
SU4-41-023	0.66	U	pCi/g	Radium 228	0.74	0.66
SU4-41-024	1.57		pCi/g	Radium 228	0.42	1.57
SU4-41-025	0.48		pCi/g	Radium 228	0.3	0.48
SU4-41-026	0.59		pCi/g	Radium 228	0.26	0.59
SU4-41-027	0.2	U	pCi/g	Radium 228	0.3	0.2
SU4-41-028	0.24	U	pCi/g	Radium 228	0.38	0.24
SU4-41-029	0.8		pCi/g	Radium 228	0.38	0.8
SU4-41-030	1.27		pCi/g	Radium 228	0.33	1.27
SU4-41-031	0.43		pCi/g	Radium 228	0.4	0.43
SU4-41-032	0.64		pCi/g	Radium 228	0.54	0.64
SU4-41-033	0.71		pCi/g	Radium 228	0.57	0.71

SU4 Ra-228

Standard Deviation	0.528
Max Result	2.48
Cleanup Objective	2.1
Hot Spot Criteria	3.4

MDA: minimum detectable activity
U: not detected J: estimated

A92/173

EXHIBIT 2

COC VERIFICATION RESULTS

Location	Result	Lab Qualifier	Units	Isotope	MDA	Value Used
SU4-41-001	1.18		pCi/g	Thorium-232	0.06	1.18
SU4-41-002	0.7		pCi/g	Thorium-232	0.03	0.7
SU4-41-003	0.73		pCi/g	Thorium-232	0.03	0.73
SU4-41-004	0.55		pCi/g	Thorium-232	0.05	0.55
SU4-41-005	**2.23**		**pCi/g**	**Thorium-232**	**0.03**	**2.23**
SU4-41-006	1.4		pCi/g	Thorium-232	0.05	1.4
SU4-41-007	0.4		pCi/g	Thorium-232	0.03	0.4
SU4-41-008	0.45		pCi/g	Thorium-232	0.03	0.45
SU4-41-009	1.59		pCi/g	Thorium-232	0.06	1.59
SU4-41-010	1.74		pCi/g	Thorium-232	0.07	1.74
SU4-41-011	1.7		pCi/g	Thorium-232	0.05	1.7
SU4-41-012	0.93		pCi/g	Thorium-232	0.05	0.93
SU4-41-013	0.57		pCi/g	Thorium-232	0.06	0.57
SU4-41-014	0.79		pCi/g	Thorium-232	0.06	0.79
SU4-41-015	1.32		pCi/g	Thorium-232	0.04	1.32
SU4-41-016A	**3.3**		**pCi/g**	**Thorium-232**	**0.02**	**3.3**
SU4-41-017	1.48		pCi/g	Thorium-232	0.05	1.48
SU4-41-018A	1.37		pCi/g	Thorium-232	0.04	1.37
SU4-41-019	1.14		pCi/g	Thorium-232	0.03	1.14
SU4-41-020	0.52		pCi/g	Thorium-232	0.07	0.52
SU4-41-021	1.96		pCi/g	Thorium-232	0.05	1.96
SU4-41-022	0.36		pCi/g	Thorium-232	0.04	0.36
SU4-41-023	1.08		pCi/g	Thorium-232	0.05	1.08
SU4-41-024	1.36		pCi/g	Thorium-232	0.07	1.36
SU4-41-025	0.59		pCi/g	Thorium-232	0.09	0.59
SU4-41-026	1.02		pCi/g	Thorium-232	0.06	1.02
SU4-41-027	0.3		pCi/g	Thorium-232	0.06	0.3
SU4-41-028	0.33		pCi/g	Thorium-232	0.05	0.33
SU4-41-029	0.91		pCi/g	Thorium-232	0.05	0.91
SU4-41-030	1.37		pCi/g	Thorium-232	0.04	1.37
SU4-41-031	1.02		pCi/g	Thorium-232	0.04	1.02
SU4-41-032	0.85		pCi/g	Thorium-232	0.06	0.85
SU4-41-033	0.53		pCi/g	Thorium-232	0.03	0.53

SU4 Th-232

Standard Deviation	0.640
Max Result	3.3
Cleanup Objective	2.1
Hot Spot Criteria	3.5

MDA: minimum detectable activity
U: not detected J: estimated

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EXHIBIT 2

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL09817
File ID: 2SC04165.s0
Priority: Yes

Description\Location
PRS 41 020206-05 As left
Long Count

Collector: 7561
Date Received: 2/2/06
Date Collected: 2/2/06

Radionuclide		Activity (pCi/g)	MDA
Co-60	*	0	0.09
Cs-137	*	0.03	0.04
Pb-210		0.75	0.69
Ra-226		1.56	0.88
Ac-227 (D)	*	0.12	0.25
Th-230	*	0	7.8
Th-232 (D)		1.31	0.2
Pu-238	*	3.57	16.42
Am-241	*	0	0.08

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA

Σ_{DOT} 0.03 nCi/g

Instrument type: High Purity Germanium

Σ_{DOT} 2nCi/g limit, total activity.

(D) Denotes identification by daughter emissions. Sample is Assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation

Comments:

Date: 2/3/06 Counted By: 5288 Analyzed By: 5288 Initials

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EXHIBIT 2

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL11031
File ID: 2SC04644.s0
Priority: Yes

Description\Location 24Apr06

PRS41 SU4 #16 ~~NW~~ NE
Long Count

Collector:
Date Received: 3/23/06
Date Collected: 3/23/06

Radionuclide		Activity (pCi/g)	MDA
Co-60	*	0.04	0.05
Cs-137	*	0	0.05
Pb-210		0.84	0.62
Ra-226		0.99	0.82
Ac-227 (D)	*	0	0.29
Th-230	*	3.32	7.21
Th-232 (D)		0.72	0.21
Pu-238	*	0	15.44
Am-241	*	0.01	0.07

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA

Σ_{DOT} 0.03 nCi/g

Instrument type: High Purity Germanium

Σ_{DOT} 2nCi/g limit, total activity.

(D) Denotes identification by daughter emissions. Sample is Assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation

Comments:

Date: 3/24/06 Counted By: 5288 Analyzed By: 5288 Initials [redacted]

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EXHIBIT 2

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: GL11032
File ID: 2SC04645.s0
Priority: Yes

Description\Location
PRS41 SU4 #16 SW
Long Count

Collector:
Date Received: 3/23/06
Date Collected: 3/23/06

Radionuclide		Activity (pCi/g)	MDA
Co-60	*	0	0.06
Cs-137	*	0.02	0.05
Pb-210	*	0.28	0.65
Ra-226		1.21	0.87
Ac-227 (D)	*	0.07	0.26
Th-230	*	2.33	7.88
Th-232 (D)		1.46	0.2
Pu-238	*	7.45	16.35
Am-241	*	0	0.08

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA

Σ_{DOT} 0.03 nCi/g

Instrument type: High Purity Germanium

Σ DOT 2nCi/g limit, total activity.

(D) Denotes identification by daughter emissions. Sample is Assumed to be in secular equilibrium.

* Indicates activity < MDA. MDA used in limits calculation

Comments:

Date: 3/24/06 Counted By: 5288 Analyzed By: 5288 Initials [redacted]

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EXHIBIT 2

Recalculation of N for SU4

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cm-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
4.2106	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231	27.2	(pCi/g)
	Pa-231+D	4	(pCi/g)
0.1546	Ra-226+D	2.9	(pCi/g)
0.528	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-229+D	5.06	(pCi/g)
	Th-230	83.8	(pCi/g)
	Th-230+D	2.8	(pCi/g)
	Th-232	73.4	(pCi/g)
0.6397	Th-232+D	73.4	(pCi/g)
	Tritium	1.80E+05	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-233/234	103	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	15.01	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	42.3	(pCi/g)
	U-238+D	2.09	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
Effective	0.27	*(s)*	
Sign p	0.884930	Pu-238 Area Factor (N)	168

Estimate (N) - Sign Test

DCGL	1
LBGR	0.66
Delta	0.34
(s)	0.27
Rel Shift	1.267
(N)	12.00

Calculate the Total Effective (s)

Recalculation from Verification Data

Sample Grid Spacing

SU Area	505	m^2	SU Area	5,439	ft^2
Grid Length	6.0	m	Grid Length	19.8	ft
Grid Height	5.2	m	Grid Height	17.2	ft

Area MWWTP **Survey Unit** SU 4

EXHIBIT 3

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SU4 Power Curve

n=9, alpha=5%, beta=20%, std.dev.=0.12

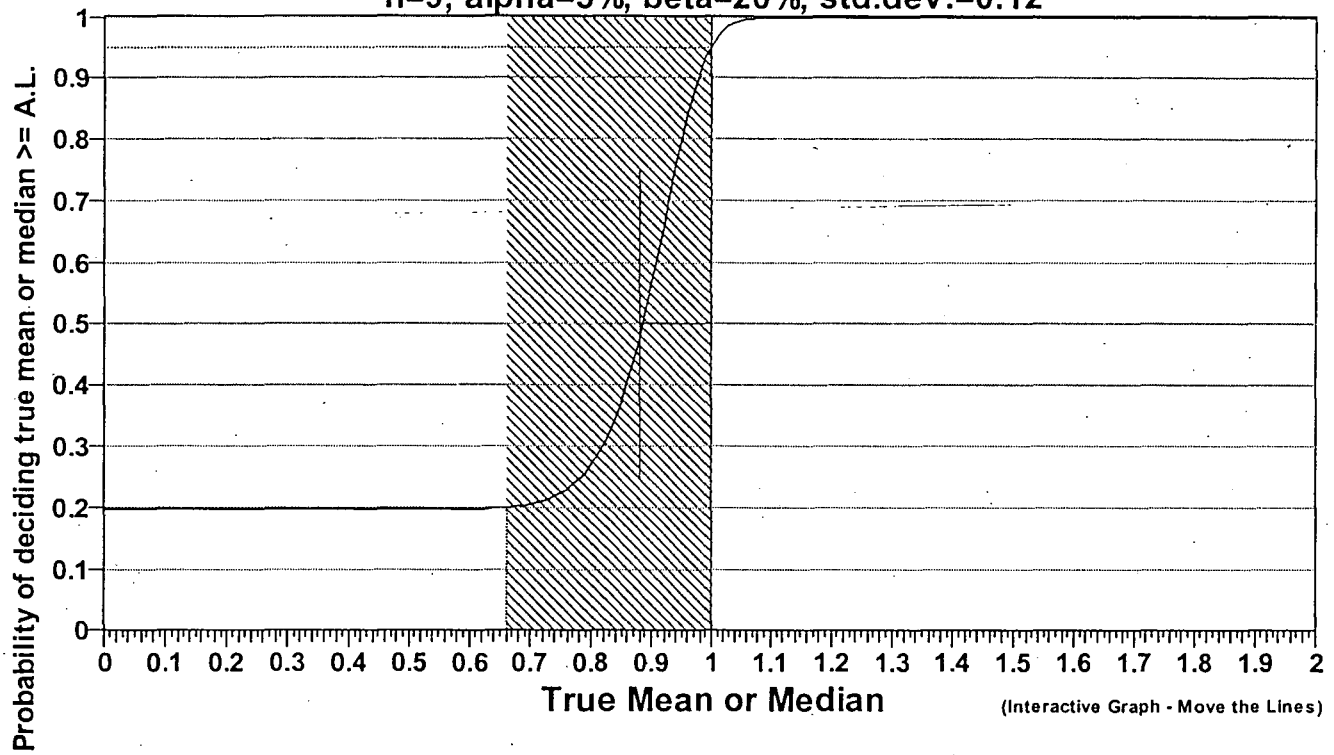

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EXHIBIT 3

Sign Test for Th-232 at SU4

ID	Th-232 (Activity (pCi/g))	CO-Meas	Sign Test
SU4-41-001	1.18	0.920	+
SU4-41-002	0.7	1.400	+
SU4-41-003	0.73	1.370	+
SU4-41-004	0.55	1.550	+
SU4-41-005	**2.23**	-0.130	-
SU4-41-006	1.4	0.700	+
SU4-41-007	0.4	1.700	+
SU4-41-008	0.45	1.650	+
SU4-41-009	1.59	0.510	+
SU4-41-010	1.74	0.360	+
SU4-41-011	1.7	0.400	+
SU4-41-012	0.93	1.170	+
SU4-41-013	0.57	1.530	+
SU4-41-014	0.79	1.310	+
SU4-41-015	1.32	0.780	+
SU4-41-016A	**3.3**	-1.200	-
SU4-41-017	1.48	0.620	+
SU4-41-018A	1.37	0.730	+
SU4-41-019	1.14	0.960	+
SU4-41-020	0.52	1.580	+
SU4-41-021	1.96	0.140	+
SU4-41-022	0.36	1.740	+
SU4-41-023	1.08	1.020	+
SU4-41-024	1.36	0.740	+
SU4-41-025	0.59	1.510	+
SU4-41-026	1.02	1.080	+
SU4-41-027	0.3	1.800	+
SU4-41-028	0.33	1.770	+
SU4-41-029	0.91	1.190	+
SU4-41-030	1.37	0.730	+
SU4-41-031	1.02	1.080	+
SU4-41-032	0.85	1.250	+
SU4-41-033	0.53	1.570	+

Average:	1.08
Std. Deviation:	0.64
Median:	1.02
Maximum:	3.30
Cleanup Obj.:	2.10
Hot Spot:	3.5
N:	33
S+:	31
k Crit:	22
P/F:	**PASS**

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EXHIBIT 4

Sign Test for Ra-228 at SU4

ID	Activity (pCi/g) Ra-228	CO-Meas	Sign Test
SU4-41-001	0.91	1.190	+
SU4-41-002	0.93	1.170	+
SU4-41-003	0.72	1.380	+
SU4-41-004	0.34	1.760	+
SU4-41-005	0.98	1.120	+
SU4-41-006	0.94	1.160	+
SU4-41-007	0.22	1.880	+
SU4-41-008	0.41	1.690	+
SU4-41-009	1	1.100	+
SU4-41-010	1.1	1.000	+
SU4-41-011	1.92	0.180	+
SU4-41-012	0.59	1.510	+
SU4-41-013	0.21	1.890	+
SU4-41-014	0.59	1.510	+
SU4-41-015	0.72	1.380	+
SU4-41-016A	**2.48**	-0.380	-
SU4-41-017	0.86	1.240	+
SU4-41-018A	1.55	0.550	+
SU4-41-019	0.91	1.190	+
SU4-41-020	0.29	1.810	+
SU4-41-021	1.48	0.620	+
SU4-41-022	0.2	1.900	+
SU4-41-023	0.66	1.440	+
SU4-41-024	1.57	0.530	+
SU4-41-025	0.48	1.620	+
SU4-41-026	0.59	1.510	+
SU4-41-027	0.2	1.900	+
SU4-41-028	0.24	1.860	+
SU4-41-029	0.8	1.300	+
SU4-41-030	1.27	0.830	+
SU4-41-031	0.43	1.670	+
SU4-41-032	0.64	1.460	+
SU4-41-033	0.71	1.390	+

Average:	0.82
Std. Deviation:	0.53
Median:	0.72
Maximum:	2.48
Cleanup Obj.:	2.10
Hot Spot:	3.4
N:	33
S+:	32
k Crit:	22
P/F:	**PASS**

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EXHIBIT 4

95% UCL for Th-232 at SU4

Data File	PRS 41 MWWTP SU4	Variable:	Th-232
Raw Statistics		Normal Distribution Test	
Number of Valid Samples	33	Shapiro-Wilk Test Statisitic	0.897261
Number of Unique Samples	31	Shapiro-Wilk 5% Critical Value	0.931
Minimum	0.3	Data not normal at 5% significance level	
Maximum	3.3		
Mean	1.083939	95% UCL (Assuming Normal Distribution)	
Median	1.02	Student's-t UCL	1.272556
Standard Deviation	0.639663		
Variance	0.409168	Gamma Distribution Test	
Coefficient of Variation	0.590128	A-D Test Statistic	0.213992
Skewness	1.412261	A-D 5% Critical Value	0.752741
		K-S Test Statistic	0.091288
Gamma Statistics		K-S 5% Critical Value	0.154168
k hat	3.242191	Data follow gamma distribution	
k star (bias corrected)	2.967649	at 5% significance level	
Theta hat	0.334323		
Theta star	0.365252	95% UCLs (Assuming Gamma Distribution)	
nu hat	213.9846	Approximate Gamma UCL	1.290774
nu star	195.8648	Adjusted Gamma UCL	1.302481
Approx.Chi Square Value (.05)	164.4793		
Adjusted Level of Significance	0.0419	Lognormal Distribution Test	
Adjusted Chi Square Value	163.0009	Shapiro-Wilk Test Statisitic	0.976555
		Shapiro-Wilk 5% Critical Value	0.931
Log-transformed Statistics		Data are lognormal at 5% significance level	
Minimum of log data	-1.20397		
Maximum of log data	1.193922	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	-0.08147	95% H-UCL	1.349252
Standard Deviation of log data	0.588919	95% Chebyshev (MVUE) UCL	1.606601
Variance of log data	0.346826	97.5% Chebyshev (MVUE) UCL	1.830281
		99% Chebyshev (MVUE) UCL	2.269658
		95% Non-parametric UCLs	
		CLT UCL	1.267095
Data follow gamma distribution (0.05)		Adj-CLT UCL (Adjusted for skewness)	1.296346
RECOMMENDATION		Mod-t UCL (Adjusted for skewness)	1.277118
Use Approximate Gamma UCL		Jackknife UCL	1.272556
		Standard Bootstrap UCL	1.264239
Therefore, the 95% UCL		Bootstrap-t UCL	1.308231
		Hall's Bootstrap UCL	1.33424
PASSES		Percentile Bootstrap UCL	1.268485
		BCA Bootstrap UCL	1.301515
when compared to the cleanup objective		95% Chebyshev (Mean, Sd) UCL	1.569307
of 2.1 pCi/g		97.5% Chebyshev (Mean, Sd) UCL	1.779326
		99% Chebyshev (Mean, Sd) UCL	2.191868

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EXHIBIT 4

95% UCL for Ra-228 at SU4

Data File	K:\SHARED\ER\PRS 041\Verificatiion Sampl	Variable:	Ra-228

Raw Statistics		Normal Distribution Test	
Number of Valid Samples	33	Shapiro-Wilk Test Statisitic	0.896405
Number of Unique Samples	28	Shapiro-Wilk 5% Critical Value	0.931
Minimum	0.2	Data not normal at 5% significance level	
Maximum	2.48		
Mean	0.816364	95% UCL (Assuming Normal Distribution)	
Median	0.72	Student's-t UCL	0.971983
Standard Deviation	0.52776		
Variance	0.27853	Gamma Distribution Test	
Coefficient of Variation	0.646476	A-D Test Statistic	0.292101
Skewness	1.275675	A-D 5% Critical Value	0.755701
		K-S Test Statistic	0.086294
Gamma Statistics		K-S 5% Critical Value	0.154669
k hat	2.582178	Data follow gamma distribution	
k star (bias corrected)	2.367637	at 5% significance level	
Theta hat	0.316153		
Theta star	0.344801	95% UCLs (Assuming Gamma Distribution)	
nu hat	170.4238	Approximate Gamma UCL	0.993827
nu star	156.264	Adjusted Gamma UCL	1.004
Approx.Chi Square Value (.05)	128.3606		
Adjusted Level of Significance	0.0419	Lognormal Distribution Test	
Adjusted Chi Square Value	127.0601	Shapiro-Wilk Test Statisitic	0.954486
		Shapiro-Wilk 5% Critical Value	0.931
Log-transformed Statistics		Data are lognormal at 5% significance level	
Minimum of log data	-1.60944		
Maximum of log data	0.908259	95% UCLs (Assuming Lognormal Distribution)	
Mean of log data	-0.40885	95% H-UCL	1.071045
Standard Deviation of log data	0.677245	95% Chebyshev (MVUE) UCL	1.288411
Variance of log data	0.458661	97.5% Chebyshev (MVUE) UCL	1.48733
		99% Chebyshev (MVUE) UCL	1.878069
		95% Non-parametric UCLs	
		CLT UCL	0.967478
Data follow gamma distribution (0.05)		Adj-CLT UCL (Adjusted for skewness)	0.989278
RECOMMENDATION		Mod-t UCL (Adjusted for skewness)	0.975383
Use Approximate Gamma UCL		Jackknife UCL	0.971983
		Standard Bootstrap UCL	0.966883
Therefore, the 95% UCL		Bootstrap-t UCL	1.01127
		Hall's Bootstrap UCL	0.998026
PASSES		Percentile Bootstrap UCL	0.973333
		BCA Bootstrap UCL	1.00697
when compared to the cleanup objective		95% Chebyshev (Mean, Sd) UCL	1.216821
of 2.1 pCi/g		97.5% Chebyshev (Mean, Sd) UCL	1.390099
		99% Chebyshev (Mean, Sd) UCL	1.73047

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EXHIBIT 4

APPENDIX E

WALKOVER DOCUMENTATION

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM)	SURVEY NO.
41 Ditch	06-ER-0367
PURPOSE:	RWP NO.
41-Ditch walk-over Summary	N/A
	DATE: 5/25/2006
	TIME: 8:00

MAP / DRAWING

The Bicron FIDLER or Sodium Iodine is used as an indicator only:

Walk-over:
This is a summary report of FIDLER readings taken during and following daily field excavation activities at 41 Ditch and represents the accessible as-left surfaces prior to verification sampling for those areas. This report only applies to those areas indicated above.

100% walk-over of all accessible surfaces within verification limits and slopedback areas occurred as a matter of course throughout the excavation process. Walk-overs entailed surveying as referenced in MD-80036 and MD-80043 Radiological Control Procedures. Fidler readings on all surfaces were at backgroung levels for channel out and channel one based on COCs.

COPY

LEGEND:
- # = mrem/hr (γ) whole body
- #E = mrem/hr (β+η+γ) extremity on contact
- K = factor of 1000
- — · — · — · · = radiological boundary

(#) - mrem/hr neutron

(#) - swipe number

[#] - air sample number

(#/α) or /β - direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
	N	
	A	

[redacted]

HP#	Date:
6175	5-25-06
HP#	Date:
5416	5-25-06

ML-9620 (2-98)

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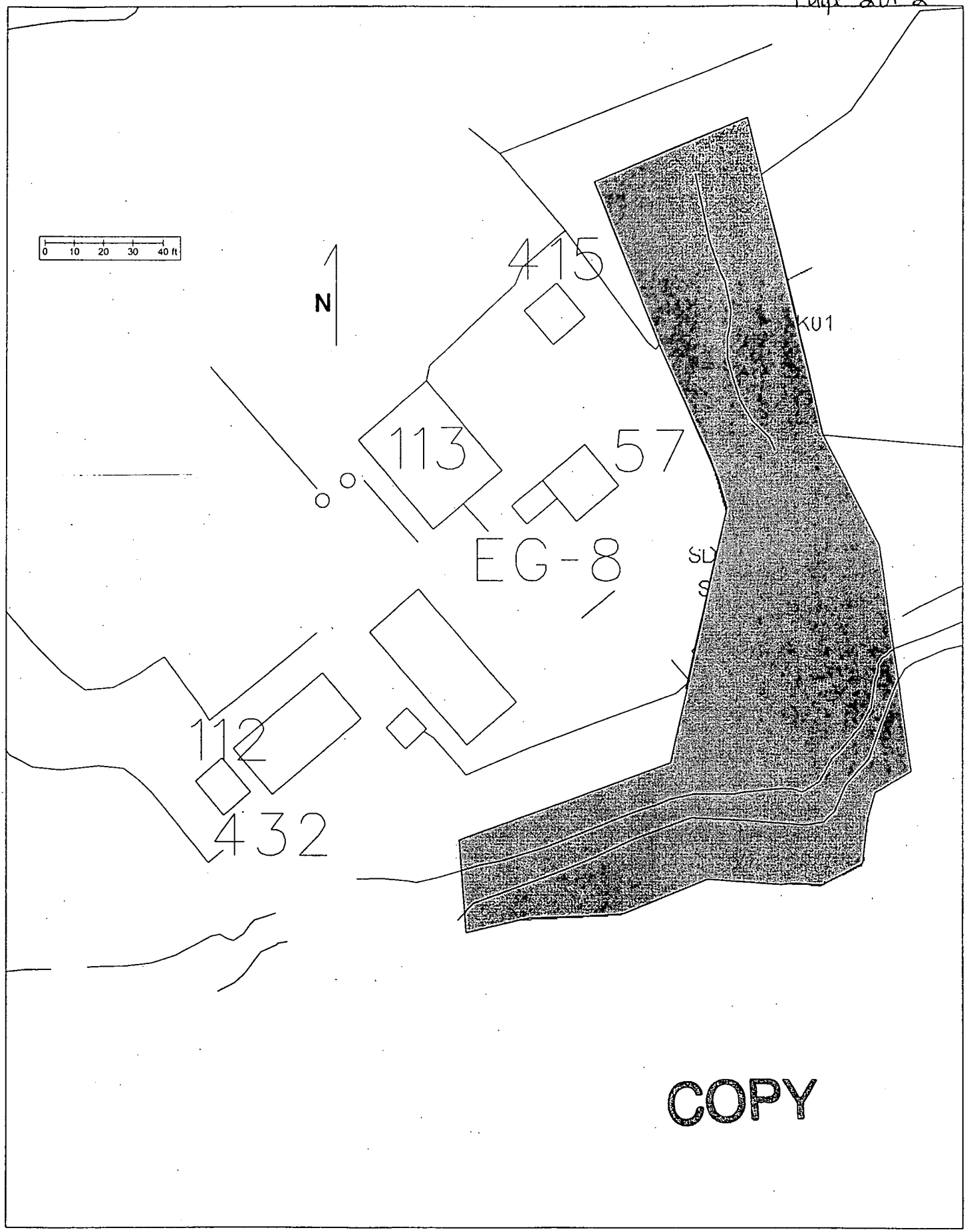

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RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM)	SURVEY NO.
PRS 41	06-ER-0366
PURPOSE:	RWP NO.
	N/A
PRS-41 walk-over Summary	DATE: 5/25/2006
	TIME: 7:00

MAP / DRAWING

The Bicron FIDLER or Sodium Iodine was used as an indicator only:

Walk-over:
This is a summary report of FIDLER readings taken during and following daily field excavation activities at PRS-41 and represents the accessible as-left surfaces prior to verification sampling for those areas. This report only applies to those areas indicated above.

100% walk-over of all accessible surfaces within verification limits and slopedback areas occurred as a matter of course throughout the excavation process. Walk-overs entailed surveying as referenced in MD-80036 and MD-80043 Radiological Control Procedures. Fidler readings on all surfaces were at backgroung levels for channel out and channel one based on COCs.

LEGEND:
- # = mrem/hr (γ) whole body
- #E = mrem/hr (β+η+γ) extremity on contact
- K = factor of 1000
- — · — · — · · = radiological boundary
- # - mrem/hr neutron
- # - swipe number
- # - air sample number
- #/α or /β - direct contamination measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
	N	
	A	

[redacted]

HP#	Date:
6175	5-25-06
HP#	Date:
5416	5-25-06

ML-9620 (2-98)

COPY

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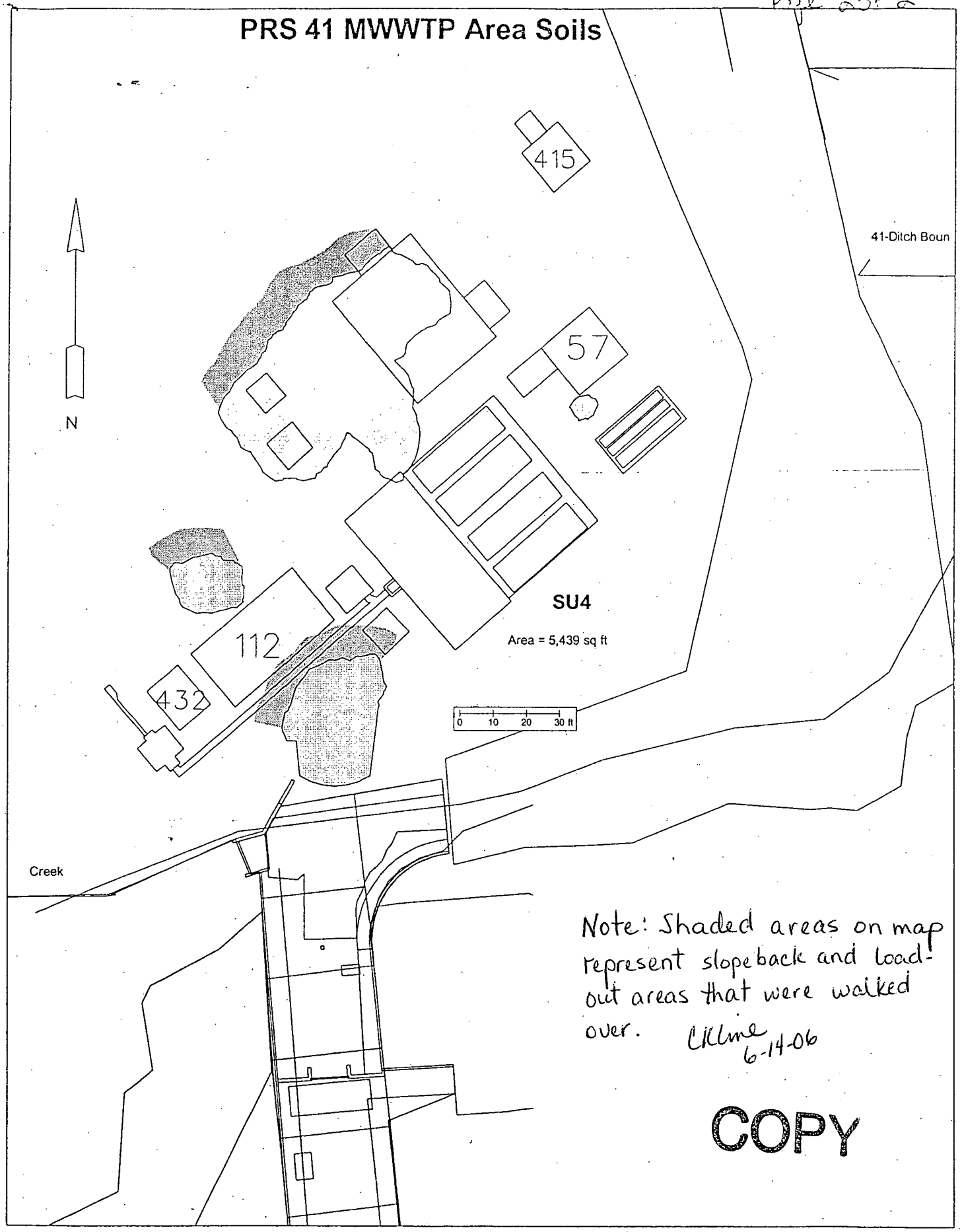
PRS 41 MWWTP Area Soils



Note: Shaded areas on map represent slopeback and load-out areas that were walked over. CLLine 6-14-06

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APPENDIX F

DATA REVIEW & VALIDATION

Review & Validation (R&V) Report

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Acronyms

%	percent
%D	percent difference
LCS	laboratory control spike
NAD	normalized absolute difference
MB	method blank
MDA	minimum detectable activity
NC	non-calculable
pCi/g	picoCurie/gram
PQL	project quantitation limit
PRS	potential release site
RPD	relative percent difference
RSD	relative standard deviation
SDG	sample delivery group
SOW	Statement of Work
VSAP	Verification Sampling and Analysis Plan

1.0 Introduction and Summary

1.1 Introduction

This data assessment has been prepared to describe the data quality for the PRS 41 Ditch and Mound Waste Water Treatment Plant (MWWTP) verification samples. The work was generally performed in compliance with the Statement of Work (SOW) issued February 3, 2005 and the Amendment 2 dated February 22, 2005; Subcontractor Interface Documents dated February 9, 2006 and April 10, 2006; the Mound Verification Sampling and Analysis Plan (VSAP) dated August 2004; sample maps and target parameters issued by CH2M Hill Mound for each sample event; and the Mound Methods Compendium. Data assessment encompasses two types of quality control reviews on the data: data review and data validation. Data review involves a review of the basic quality control data included in the laboratory data package, e.g., laboratory blanks, surrogate recoveries, matrix spike recoveries, and field duplicates. All (100%) of the data are reviewed. Data validation is a detailed review of the laboratory data packages that includes all of the data review elements plus verification of such things as proper instrument calibration, instrument calibration validity during sample analysis, identification of target analytes, and proper treatment and quantification of the data. The results of the data validation are assessed to identify whether any systemic problems are apparent. Suspect values are flagged to assure the validity of the data to the user. While only 10% of the data is required to be validated, data validation was performed on 100% of the samples. Both data review and validation are combined and discussed below.

2.0 Data Review / Validation

The quality control data submitted with the analytical data packages were reviewed and validated. The results of the assessment are presented in this section. The following qualifications were used to indicate data quality problems identified during the data validation process.

Table 1 — Data Validation Qualifications	
Qualification	**Qualification Description**
=	The sample result is positively identified and quantified.
J	The associated positive sample result is estimated.
J/UJ	The associated positive or non-detected sample result is qualified estimated.
UJ	The associated not-detected sample result is qualified estimated.
U	The associated sample result is qualified not detected.
R	The associated sample result is rejected and unusable.

Reason Codes are used to assign meaning to the qualifiers used. The following are the reason codes that were applied to this project:

Table 2 – Validation Reason Codes	
Reason Code	**Reason Code Description**
F01	Sample data were qualified as a result of the laboratory blank.
J01	Laboratory duplicate RPD was outside the control limit.
N02	MDAs reported by the laboratory exceeded corresponding PQLs.
T04	Professional judgment was used to qualify the data.
T05	Analytical result is less than the associated MDA, but greater than the counting uncertainty.
T06	Analytical result is less than both the associated counting uncertainty and MDA.
T15	Activity may be biased low due to lack of ingrowth.

This sampling effort is discussed in four sections: field QA frequency, gamma spectroscopy, isotopic plutonium and isotopic thorium. The data validation of each of these is discussed in the following subsections. The validated results are contained in the R&V data table that follows this R&V Report.

2.1 Field QA Frequency

The field team is responsible for introducing or specifying field quality control samples. The frequency of these samples is discussed below.

2.1.1 Equipment Rinsates

Equipment rinsate samples were not required for this sampling effort. The field team used a dry decontamination method and equipment along with the dry wipes that were used during the decontamination process that were scanned in the field to monitor the decontamination process.

2.1.2 Field Duplicates

Field duplicates demonstrate that the collection technique was adequately precise. Six (6) field duplicates were collected for one hundred twenty-two (122) regular field samples for a frequency of 4.9%. This meets the planned collection goal of five percent. The field duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDA. If one result was greater than 2x the MDA and the other result was detected at less than 2x the MDA, the relative percent difference was calculated. For the six pairs, twenty-one analytes were compared, making a total of one hundred twenty six (126) comparisons. Seven comparisons (5.6%) exceeded an RPD of 35%. The field collection efforts were sufficiently precise. No qualification of the data is necessary.

2.1.3 Matrix Spikes

Matrix spikes and matrix spike duplicates are prepared to verify that the sample matrix is not interfering with the accurate and precise determination of target parameters in non-radiological fractions. This effort included only radiological fractions; therefore, matrix spikes/matrix spike duplicates were not analyzed.

2.1.4 Trip Blanks

Trip blanks are included in each shipping container used to transport samples for volatile analysis. This sampling effort did not include volatile samples. Therefore, trip blanks were not analyzed.

2.2 Gamma Spectroscopy

The field team submitted one hundred twenty-eight (128) samples for gamma spectroscopy analysis. The associated quality control result assessments are discussed in the following subsections.

2.2.1 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each sample delivery group (SDG) had one laboratory blank per analytical run. All laboratory blanks were non-detect. No blank contamination of the samples was detected.

2.2.2 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analytical precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. The laboratory analyzed one duplicate pair for each analytical run. Forty samples (31.3%) had the Actinium-228 results qualified J01 due to the associated laboratory duplicate had an RPD greater than 35%. Two samples (1.6%) had the Americium-241 results qualified J01 due to the associated laboratory duplicate had an RPD greater than 35%.

2.2.3 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analytical accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.2.4 Radionuclide Quantitation

Project Quantitation Limits (PQLs) establish the MDAs required to properly quantify non-detected analytes. Six hundred ninety-one (31.3%) gamma spec results were non-detect, but the MDA did not meet the PQL of 0.1 (pCi/g). These results that were non-detect but did not meet the PQL are qualified with the reason code N02.

Radium-226 is reported via the 609.31 (keV) line of Bismuth-214. Because the sample has not had the required twenty-one day ingrowth, the reported Radium-226 activities are estimated and may be biased low. All (100%) Radium-226 sample results are qualified as estimated (J/UJ) with a reason code T15.

2.2.5 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. Fifty-three (53) records (2.4% of the gamma spec records) had results qualified as estimated (J) with a reason code T04.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. One hundred sixty-three (163) records (7.4% of the gamma spec records) had results qualified non-detect (U) with a reason code T05.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. One thousand two hundred thirty-seven (1237) records (55.9% of the gamma spec records) had results qualified as non-detect, estimated (UJ) with a reason code T06.

2.3 *Isotopic Plutonium*

The field team submitted one hundred twenty-eight (128) samples for isotopic plutonium analysis. The associated quality control result assessments are discussed in the following subsections.

2.3.1 Yields

Non-target isotopes are added to samples just prior to digestion and separation. The non-target isotopes are used to determine the digestion, separation, and analysis efficiencies. These non-target isotope recoveries are expressed as yields and used to calculate the target isotope activities. All yields for plutonium analysis were within control limits. No qualifications to the usability of the data are required based on the yield recoveries.

2.3.2 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each sample delivery group (SDG) had one laboratory blank per analytical run. All laboratory blanks were non-detect for plutonium. No blank contamination of the samples was detected.

2.3.3 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analysis precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. The laboratory analyzed one duplicate pair for each analytical run. Twenty samples (15.6%) had the Plutonium-239/240 results qualified J01 due to the associated laboratory duplicate had an RPD greater than 35%.

2.3.4 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analysis accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.3.5 Radionuclide Quantitation

Project Quantitation Limits (PQLs) establish the MDAs required to properly quantify non-detected analytes. Two (1.5%) Plutonium-238 results were non-detect, but the MDA did not meet the PQL of 0.1 (pCi/g). One (0.8%) Plutonium-239/240 result was non-detect, but the MDA did not meet the PQL of 0.1 (pCi/g). These results that were non-detect but did not meet the PQL are qualified with the reason code N02.

2.3.6 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. Eighteen samples (14.1% of the samples) had Plutonium-238 results qualified as estimated (J) with a reason code T04. Twenty-eight of the samples (21.9% of the samples) had Plutonium-239/240 results qualified as estimated (J) with a reason code T04.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. One of the samples (0.8% of the samples) had Plutonium-238 results qualified non-detect (U) with a reason code T05. Four samples (3.1% of the samples) had Plutonium-239/240 results qualified non-detect (U) with a reason code T05.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. Eighteen samples (14.1% of the samples) had Plutonium-238 results qualified as non-detect, estimated (UJ) with a reason code T06. Seventy-five samples (58.6% of the samples) had

Plutonium-239/240 results qualified as non-detect, estimated (UJ) with a reason code T06.

2.4 Isotopic Thorium

The field team submitted one hundred twenty-eight (128) samples for isotopic thorium analysis. The associated quality control result assessments are discussed in the following subsections.

2.4.1 Yields

Non-target isotopes are added to samples just prior to digestion and separation. The non-target isotopes are used to determine the digestion, separation, and analysis efficiencies. These non-target isotope recoveries are expressed as yields and used to calculate the target isotope activities. All yields for thorium analysis were within control limits. No qualifications to the usability of the data are required based on the yield recoveries.

2.4.2 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each SDG had one laboratory blank per analytical run.

Thorium-230 was detected in four blanks with activity concentrations ranging from 0.028 pCi/g to 0.105 pCi/g. This may indicate that contamination could have been introduced during the laboratory preparation. Those samples where the normalized absolute difference (NAD) between the blank and the sample result is greater than 2.58 are qualified as estimated (J) with a reason code F01. Two samples (1.6% of the samples) had the Thorium-230 samples qualified as estimated (J) with a reason code F01.

2.4.3 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analysis precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences. Relative percent differences are considered non-calculable for duplicate pairs where

one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the RPD was calculated. The laboratory analyzed one duplicate pair for each analytical run. Fifteen samples (11.8%) had the Thorium-228 results qualified J01 because the associated laboratory duplicate had an RPD greater than 35%. Fifteen samples (11.8%) had the Thorium-232 results qualified J01 because the associated laboratory duplicate had an RPD greater than 35%.

2.4.4 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analysis accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.4.5 Radionuclide Quantitation

Project Quantitation Limits (PQLs) establish the MDAs required to properly quantify non-detected analytes. All (100%) of the isotopic thorium results met the PQL of 0.1 (pCi/g). None of the isotopic thorium required qualification with the reason code N02.

2.4.6 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. Two samples (1.6% of the samples) had Thorium-228 results qualified as estimated (J) with a reason code T04. One sample (0.8% of the samples) had a Thorium-232 result qualified as estimated (J) with a reason code T04.

3.0 References

Reference 1: *Methods Compendium*. Mound Plant, Miamisburg OH. Technical Manual MD-80045, Issue 2, January 2002.

Reference 2: *Data Validation*. Science Application International Corporation. Technical Procedure-Data Management-300-7, Revision 5, February 2004.

FY06

Data May update

INDIVIDUAL PACKAGE LISTING

Rail

Class 7

8005-02-4312

RQ, RADIOACTIVE LSA

pCi/g						1.78			70.4	186		3.19	17	21	*297.59*	
Railcar	Net	Net	Net	Cubic	Cubic	Ac-227			H-3	Pu-238	SNM(238)	Ra-226	Th-230	Th-232	Total	Total
Number	Weight(Kg)	Weight(lb)	Weight(tons)	Feet	Yards	Millicurie	Millicurie	Millicurie	Millicurie	Millicurie	Grams	Millicurie	Millicurie	Millicurie	Millicuries	SNM Grams
CVGX118	98,022	216,100	108.1	2542	94	0.2	0.0	0.0	7	18	1.1E-03	0.3	1.7	2.1	29.37	1.1E-03
TOTALS	*98,022*	*216,100*	*108.1*	*2,542*	*94*	*0.2*	*0.0*	*0.0*	*6.9*	*18.248*	*1.1E-03*	*0.313*	*1.668*	*2.060*	*29.37*	1.1E-03
			Cu. Meters	72.0									MBq			1087

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R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-001	F6C030180	EML A-01-R	Plutonium-238	-0.004	0.058	0.11	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	EML A-01-R	Plutonium-239/240	0.012	0.033	0.031	PCI/G	UJ	T06
SU4-41-001	F6C030180	EML A-01-R	Thorium-228	1.06	0.27	0.06	PCI/G	=	
SU4-41-001	F6C030180	EML A-01-R	Thorium-230	0.95	0.25	0.07	PCI/G	=	
SU4-41-001	F6C030180	EML A-01-R	Thorium-232	1.18	0.29	0.06	PCI/G	=	
SU4-41-001	F6C030180	GAMMA	Actinium 227	-0.08	0.36	0.53	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Actinium 228	0.91	0.56	0.47	PCI/G	J	T04
SU4-41-001	F6C030180	GAMMA	Americium 241	-0.004	0.12	0.23	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Bismuth 214	0.59	0.28	0.49	PCI/G	=	
SU4-41-001	F6C030180	GAMMA	Bismuth-207	-0.016	0.058	0.11	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Bismuth-210M	-0.032	0.069	0.12	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Cesium 137	-0.017	0.085	0.16	PCI/G	UJ	T06
SU4-41-001	F6C030180	GAMMA	Cobalt 60	-0.001	0.1	0.2	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Lead 210	1.4	1.6	3.1	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Lead 212	1.05	0.21	0.14	PCI/G	=	
SU4-41-001	F6C030180	GAMMA	Potassium 40	32.1	5.2	1.3	PCI/G	=	
SU4-41-001	F6C030180	GAMMA	Protactinium 231	-1.6	1.4	2.3	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Radium (226)	0.59	0.28	0.49	PCI/G	J	T15
SU4-41-001	F6C030180	GAMMA	Radium 228	0.91	0.56	0.47	PCI/G	J	T04
SU4-41-001	F6C030180	GAMMA	Thorium 229	-0.78	0.77	1.2	PCI/G	UJ	T06, N02
SU4-41-001	F6C030180	GAMMA	Uranium 235	-0.54	0.82	1.3	PCI/G	UJ	T06
SU4-41-001	F6C030180	GAMMA	Uranium 238	2.3	1.3	2.7	PCI/G	U	T05
SU4-41-002	F6C030180	EML A-01-R	Plutonium-238	0.15	0.084	0.061	PCI/G	J	T04
SU4-41-002	F6C030180	EML A-01-R	Plutonium-239/240	0.018	0.029	0.042	PCI/G	UJ	T06
SU4-41-002	F6C030180	EML A-01-R	Thorium-228	0.8	0.22	0.08	PCI/G	=	
SU4-41-002	F6C030180	EML A-01-R	Thorium-230	1.23	0.29	0.03	PCI/G	=	
SU4-41-002	F6C030180	EML A-01-R	Thorium-232	0.7	0.2	0.03	PCI/G	=	
SU4-41-002	F6C030180	GAMMA	Actinium 227	0.12	0.27	0.45	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Actinium 228	0.93	0.35	0.24	PCI/G	=	
SU4-41-002	F6C030180	GAMMA	Americium 241	0.03	0.1	0.18	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Bismuth 214	0.29	0.19	0.36	PCI/G	U	T05
SU4-41-002	F6C030180	GAMMA	Bismuth-207	-0.025	0.04	0.067	PCI/G	UJ	T06
SU4-41-002	F6C030180	GAMMA	Bismuth-210M	-0.002	0.058	0.11	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Cesium 137	0.037	0.055	0.12	PCI/G	UJ	T06
SU4-41-002	F6C030180	GAMMA	Cobalt 60	0.033	0.054	0.12	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Lead 210	-0.07	1.1	2.2	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Lead 212	0.47	0.15	0.16	PCI/G	=	
SU4-41-002	F6C030180	GAMMA	Potassium 40	14.6	2.8	1.1	PCI/G	=	
SU4-41-002	F6C030180	GAMMA	Protactinium 231	-0.3	1.1	1.9	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Radium (226)	0.29	0.19	0.36	PCI/G	UJ	T05, T15, N02
SU4-41-002	F6C030180	GAMMA	Radium 228	0.93	0.35	0.24	PCI/G	=	
SU4-41-002	F6C030180	GAMMA	Thorium 229	-0.29	0.52	0.86	PCI/G	UJ	T06, N02
SU4-41-002	F6C030180	GAMMA	Uranium 235	0.56	0.6	1.2	PCI/G	UJ	T06
SU4-41-002	F6C030180	GAMMA	Uranium 238	0.4	1	1.9	PCI/G	UJ	T06
SU4-41-003	F6C030180	EML A-01-R	Plutonium-238	0.36	0.14	0.09	PCI/G	=	
SU4-41-003	F6C030180	EML A-01-R	Plutonium-239/240	0.007	0.024	0.051	PCI/G	UJ	T06
SU4-41-003	F6C030180	EML A-01-R	Thorium-228	0.85	0.21	0.05	PCI/G	=	
SU4-41-003	F6C030180	EML A-01-R	Thorium-230	0.96	0.23	0.05	PCI/G	=	
SU4-41-003	F6C030180	EML A-01-R	Thorium-232	0.73	0.2	0.03	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Actinium 227	0.8	0.31	0.55	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Actinium 228	0.72	0.3	0.25	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Americium 241	-0.0559	0.0999	0.17	PCI/G	UJ	T06, N02
SU4-41-003	F6C030180	GAMMA	Bismuth 214	0.51	0.2	0.31	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Bismuth-207	0.023	0.039	0.076	PCI/G	UJ	T06

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R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-003	F6C030180	GAMMA	Bismuth-210M	-0.053	0.055	0.089	PCI/G	UJ	T06
SU4-41-003	F6C030180	GAMMA	Cesium 137	0.017	0.049	0.095	PCI/G	UJ	T06
SU4-41-003	F6C030180	GAMMA	Cobalt 60	-0.021	0.04	0.069	PCI/G	UJ	T06
SU4-41-003	F6C030180	GAMMA	Lead 210	0.01	1.1	2	PCI/G	UJ	T06, N02
SU4-41-003	F6C030180	GAMMA	Lead 212	0.39	0.14	0.13	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Potassium 40	13.8	2.6	0.7	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Protactinium 231	0.1	1.1	1.8	PCI/G	UJ	T06, N02
SU4-41-003	F6C030180	GAMMA	Radium (226)	0.51	0.2	0.31	PCI/G	J	T15
SU4-41-003	F6C030180	GAMMA	Radium 228	0.72	0.3	0.25	PCI/G	=	
SU4-41-003	F6C030180	GAMMA	Thorium 229	-0.13	0.57	0.98	PCI/G	UJ	T06, N02
SU4-41-003	F6C030180	GAMMA	Uranium 235	-0.52	0.52	0.82	PCI/G	UJ	T06
SU4-41-003	F6C030180	GAMMA	Uranium 238	0.64	0.9	1.7	PCI/G	UJ	T06
SU4-41-004	F6C030180	EML A-01-R	Plutonium-238	1.32	0.27	0.08	PCI/G	=	
SU4-41-004	F6C030180	EML A-01-R	Plutonium-239/240	-0.005	0.023	0.051	PCI/G	UJ	T06
SU4-41-004	F6C030180	EML A-01-R	Thorium-228	0.71	0.18	0.04	PCI/G	=	
SU4-41-004	F6C030180	EML A-01-R	Thorium-230	0.82	0.2	0.03	PCI/G	=	
SU4-41-004	F6C030180	EML A-01-R	Thorium-232	0.55	0.16	0.05	PCI/G	=	
SU4-41-004	F6C030180	GAMMA	Actinium 227	0.28	0.25	0.47	PCI/G	U	T05, N02
SU4-41-004	F6C030180	GAMMA	Actinium 228	0.34	0.25	0.54	PCI/G	U	T05
SU4-41-004	F6C030180	GAMMA	Americium 241	-0.02	0.11	0.19	PCI/G	UJ	T06, N02
SU4-41-004	F6C030180	GAMMA	Bismuth 214	0.68	0.2	0.42	PCI/G	=	
SU4-41-004	F6C030180	GAMMA	Bismuth-207	0.011	0.038	0.076	PCI/G	UJ	T06
SU4-41-004	F6C030180	GAMMA	Bismuth-210M	-0.038	0.062	0.1	PCI/G	UJ	T06
SU4-41-004	F6C030180	GAMMA	Cesium 137	-0.039	0.055	0.093	PCI/G	UJ	T06
SU4-41-004	F6C030180	GAMMA	Cobalt 60	0.042	0.05	0.13	PCI/G	UJ	T06, N02
SU4-41-004	F6C030180	GAMMA	Lead 210	0.9	1.3	2.6	PCI/G	UJ	T06, N02
SU4-41-004	F6C030180	GAMMA	Lead 212	0.55	0.15	0.17	PCI/G	=	
SU4-41-004	F6C030180	GAMMA	Potassium 40	12.9	2.7	1.1	PCI/G	=	
SU4-41-004	F6C030180	GAMMA	Protactinium 231	-0.2	1.2	2.1	PCI/G	UJ	T06, N02
SU4-41-004	F6C030180	GAMMA	Radium (226)	0.68	0.2	0.42	PCI/G	J	T15
SU4-41-004	F6C030180	GAMMA	Radium 228	0.34	0.25	0.54	PCI/G	U	T05
SU4-41-004	F6C030180	GAMMA	Thorium 229	-0.06	0.67	1.2	PCI/G	UJ	T06, N02
SU4-41-004	F6C030180	GAMMA	Uranium 235	0.28	0.59	1.1	PCI/G	UJ	T06
SU4-41-004	F6C030180	GAMMA	Uranium 238	0.7	1.1	2	PCI/G	UJ	T06
SU4-41-005	F6C030180	EML A-01-R	Plutonium-238	0.167	0.099	0.09	PCI/G	J	T04
SU4-41-005	F6C030180	EML A-01-R	Plutonium-239/240	-0.004	0.024	0.051	PCI/G	UJ	T06
SU4-41-005	F6C030180	EML A-01-R	Thorium-228	2.06	0.38	0.07	PCI/G	=	
SU4-41-005	F6C030180	EML A-01-R	Thorium-230	1.16	0.26	0.04	PCI/G	=	
SU4-41-005	F6C030180	EML A-01-R	Thorium-232	2.23	0.4	0.03	PCI/G	=	
SU4-41-005	F6C030180	GAMMA	Actinium 227	2.1	0.57	0.96	PCI/G	=	
SU4-41-005	F6C030180	GAMMA	Actinium 228	0.98	0.59	0.4	PCI/G	J	T04
SU4-41-005	F6C030180	GAMMA	Americium 241	0.04	0.17	0.25	PCI/G	UJ	T06, N02
SU4-41-005	F6C030180	GAMMA	Bismuth 214	0.71	0.27	0.42	PCI/G	=	
SU4-41-005	F6C030180	GAMMA	Bismuth-207	-0.014	0.057	0.092	PCI/G	UJ	T06
SU4-41-005	F6C030180	GAMMA	Bismuth-210M	-0.101	0.088	0.14	PCI/G	UJ	T06, N02
SU4-41-005	F6C030180	GAMMA	Cesium 137	-0.003	0.074	0.13	PCI/G	UJ	T06
SU4-41-005	F6C030180	GAMMA	Cobalt 60	0.02	0.079	0.15	PCI/G	UJ	T06, N02
SU4-41-005	F6C030180	GAMMA	Lead 210	1.3	1.7	3.1	PCI/G	UJ	T06, N02
SU4-41-005	F6C030180	GAMMA	Lead 212	1.2	0.28	0.21	PCI/G	=	
SU4-41-005	F6C030180	GAMMA	Potassium 40	35	5	1.3	PCI/G	=	
SU4-41-005	F6C030180	GAMMA	Protactinium 231	0.3	1.7	2.5	PCI/G	UJ	T06, N02
SU4-41-005	F6C030180	GAMMA	Radium (226)	0.71	0.27	0.42	PCI/G	J	T15
SU4-41-005	F6C030180	GAMMA	Radium 228	0.98	0.59	0.4	PCI/G	J	T04
SU4-41-005	F6C030180	GAMMA	Thorium 229	-0.12	0.84	1.4	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-005	F6C030180	GAMMA	Uranium 235	0.48	0.92	1.4	PCI/G	UJ	T06
SU4-41-005	F6C030180	GAMMA	Uranium 238	1.4	1.4	2.6	PCI/G	U	T05
SU4-41-005D	F6C030186	EML A-01-R	Plutonium-238	0.26	0.12	0.07	PCI/G	=	
SU4-41-005D	F6C030186	EML A-01-R	Plutonium-239/240	0.003	0.029	0.065	PCI/G	UJ	T06
SU4-41-005D	F6C030186	EML A-01-R	Thorium-228	1.53	0.31	0.07	PCI/G	J	J01
SU4-41-005D	F6C030186	EML A-01-R	Thorium-230	0.83	0.21	0.04	PCI/G	=	
SU4-41-005D	F6C030186	EML A-01-R	Thorium-232	1.54	0.31	0.06	PCI/G	J	J01
SU4-41-005D	F6C030186	GAMMA	Actinium 227	0.03	0.35	0.53	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Actinium 228	1.92	0.69	0.5	PCI/G	=	
SU4-41-005D	F6C030186	GAMMA	Americium 241	-0.009	0.12	0.22	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Bismuth 214	0.88	0.24	0.47	PCI/G	=	
SU4-41-005D	F6C030186	GAMMA	Bismuth-207	-0.029	0.054	0.093	PCI/G	UJ	T06
SU4-41-005D	F6C030186	GAMMA	Bismuth-210M	0.045	0.08	0.14	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Cesium 137	-0.088	0.072	0.12	PCI/G	UJ	T06
SU4-41-005D	F6C030186	GAMMA	Cobalt 60	-0.028	0.076	0.14	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Lead 210	-0.008	1.4	2.6	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Lead 212	1.7	0.29	0.21	PCI/G	=	
SU4-41-005D	F6C030186	GAMMA	Potassium 40	39.4	5.7	1.3	PCI/G	=	
SU4-41-005D	F6C030186	GAMMA	Protactinium 231	0.04	1.6	2.5	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Radium (226)	0.88	0.24	0.47	PCI/G	J	T15
SU4-41-005D	F6C030186	GAMMA	Radium 228	1.92	0.69	0.5	PCI/G	=	
SU4-41-005D	F6C030186	GAMMA	Thorium 229	-0.45	0.7	1.2	PCI/G	UJ	T06, N02
SU4-41-005D	F6C030186	GAMMA	Uranium 235	-0.05	0.63	1.1	PCI/G	UJ	T06
SU4-41-005D	F6C030186	GAMMA	Uranium 238	1	1.2	2.3	PCI/G	UJ	T06
SU4-41-006	F6C030180	EML A-01-R	Plutonium-238	0.016	0.045	0.075	PCI/G	UJ	T06
SU4-41-006	F6C030180	EML A-01-R	Plutonium-239/240	-0.002	0.023	0.045	PCI/G	UJ	T06
SU4-41-006	F6C030180	EML A-01-R	Thorium-228	1.32	0.31	0.1	PCI/G	=	
SU4-41-006	F6C030180	EML A-01-R	Thorium-230	1.08	0.27	0.03	PCI/G	=	
SU4-41-006	F6C030180	EML A-01-R	Thorium-232	1.4	0.32	0.05	PCI/G	=	
SU4-41-006	F6C030180	GAMMA	Actinium 227	0.26	0.4	0.67	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Actinium 228	0.94	0.53	0.44	PCI/G	J	T04
SU4-41-006	F6C030180	GAMMA	Americium 241	0.006	0.13	0.23	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Bismuth 214	0.69	0.27	0.49	PCI/G	=	
SU4-41-006	F6C030180	GAMMA	Bismuth-207	0.023	0.047	0.097	PCI/G	UJ	T06
SU4-41-006	F6C030180	GAMMA	Bismuth-210M	-0.009	0.078	0.14	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Cesium 137	0.013	0.068	0.13	PCI/G	UJ	T06
SU4-41-006	F6C030180	GAMMA	Cobalt 60	-0.074	0.082	0.13	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Lead 210	0.3	1.6	3.1	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Lead 212	0.96	0.26	0.21	PCI/G	=	
SU4-41-006	F6C030180	GAMMA	Potassium 40	26.3	4.4	1.7	PCI/G	=	
SU4-41-006	F6C030180	GAMMA	Protactinium 231	-0.6	1.6	2.7	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Radium (226)	0.69	0.27	0.49	PCI/G	J	T15
SU4-41-006	F6C030180	GAMMA	Radium 228	0.94	0.53	0.44	PCI/G	J	T04
SU4-41-006	F6C030180	GAMMA	Thorium 229	0.36	0.78	1.4	PCI/G	UJ	T06, N02
SU4-41-006	F6C030180	GAMMA	Uranium 235	0.17	0.76	1.3	PCI/G	UJ	T06
SU4-41-006	F6C030180	GAMMA	Uranium 238	1.2	1.4	2.6	PCI/G	UJ	T06
SU4-41-007	F6C030180	EML A-01-R	Plutonium-238	0.031	0.053	0.077	PCI/G	UJ	T06
SU4-41-007	F6C030180	EML A-01-R	Plutonium-239/240	-0.006	0.025	0.054	PCI/G	UJ	T06
SU4-41-007	F6C030180	EML A-01-R	Thorium-228	0.52	0.15	0.05	PCI/G	=	
SU4-41-007	F6C030180	EML A-01-R	Thorium-230	0.98	0.22	0.05	PCI/G	=	
SU4-41-007	F6C030180	EML A-01-R	Thorium-232	0.4	0.13	0.03	PCI/G	=	
SU4-41-007	F6C030180	GAMMA	Actinium 227	0.75	0.3	0.54	PCI/G	=	
SU4-41-007	F6C030180	GAMMA	Actinium 228	0.22	0.25	0.31	PCI/G	UJ	T06
SU4-41-007	F6C030180	GAMMA	Americium 241	-0.21	0.1	0.15	PCI/G	UJ	T06, N02

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-007	F6C030180	GAMMA	Bismuth 214	0.6	0.2	0.33	PCI/G	=	
SU4-41-007	F6C030180	GAMMA	Bismuth-207	-0.006	0.041	0.073	PCI/G	UJ	T06
SU4-41-007	F6C030180	GAMMA	Bismuth-210M	0.007	0.054	0.098	PCI/G	UJ	T06
SU4-41-007	F6C030180	GAMMA	Cesium 137	0.013	0.04	0.08	PCI/G	UJ	T06
SU4-41-007	F6C030180	GAMMA	Cobalt 60	0.031	0.048	0.11	PCI/G	UJ	T06, N02
SU4-41-007	F6C030180	GAMMA	Lead 210	0.3	1.2	2.3	PCI/G	UJ	T06, N02
SU4-41-007	F6C030180	GAMMA	Lead 212	0.434	0.098	0.12	PCI/G	=	
SU4-41-007	F6C030180	GAMMA	Potassium 40	10.8	2.2	1	PCI/G	=	
SU4-41-007	F6C030180	GAMMA	Protactinium 231	-0.5	1.1	1.8	PCI/G	UJ	T06, N02
SU4-41-007	F6C030180	GAMMA	Radium (226)	0.6	0.2	0.33	PCI/G	J	T15
SU4-41-007	F6C030180	GAMMA	Radium 228	0.22	0.25	0.31	PCI/G	UJ	T06
SU4-41-007	F6C030180	GAMMA	Thorium 229	0.51	0.52	0.99	PCI/G	UJ	T06, N02
SU4-41-007	F6C030180	GAMMA	Uranium 235	-0.34	0.54	0.89	PCI/G	UJ	T06
SU4-41-007	F6C030180	GAMMA	Uranium 238	1.14	0.92	1.8	PCI/G	U	T05
SU4-41-008	F6C030180	EML A-01-R	Plutonium-238	0.002	0.048	0.087	PCI/G	UJ	T06
SU4-41-008	F6C030180	EML A-01-R	Plutonium-239/240	-0.001	0.029	0.065	PCI/G	UJ	T06
SU4-41-008	F6C030180	EML A-01-R	Thorium-228	0.42	0.15	0.08	PCI/G	=	
SU4-41-008	F6C030180	EML A-01-R	Thorium-230	0.86	0.21	0.05	PCI/G	=	
SU4-41-008	F6C030180	EML A-01-R	Thorium-232	0.45	0.15	0.03	PCI/G	=	
SU4-41-008	F6C030180	GAMMA	Actinium 227	-0.16	0.29	0.42	PCI/G	UJ	T06, N02
SU4-41-008	F6C030180	GAMMA	Actinium 228	0.41	0.27	0.56	PCI/G	U	T05
SU4-41-008	F6C030180	GAMMA	Americium 241	0.035	0.097	0.17	PCI/G	UJ	T06, N02
SU4-41-008	F6C030180	GAMMA	Bismuth 214	0.64	0.23	0.4	PCI/G	=	
SU4-41-008	F6C030180	GAMMA	Bismuth-207	-0.005	0.03	0.057	PCI/G	UJ	T06
SU4-41-008	F6C030180	GAMMA	Bismuth-210M	-0.033	0.05	0.084	PCI/G	UJ	T06
SU4-41-008	F6C030180	GAMMA	Cesium 137	0.019	0.037	0.082	PCI/G	UJ	T06
SU4-41-008	F6C030180	GAMMA	Cobalt 60	-0.006	0.032	0.069	PCI/G	UJ	T06
SU4-41-008	F6C030180	GAMMA	Lead 210	0.5	1.1	2.1	PCI/G	UJ	T06, N02
SU4-41-008	F6C030180	GAMMA	Lead 212	0.35	0.11	0.16	PCI/G	=	
SU4-41-008	F6C030180	GAMMA	Potassium 40	8.9	2	0.7	PCI/G	=	
SU4-41-008	F6C030180	GAMMA	Protactinium 231	-1.3	1.1	1.7	PCI/G	UJ	T06, N02
SU4-41-008	F6C030180	GAMMA	Radium (226)	0.64	0.23	0.4	PCI/G	J	T15
SU4-41-008	F6C030180	GAMMA	Radium 228	0.41	0.27	0.56	PCI/G	U	T05
SU4-41-008	F6C030180	GAMMA	Thorium 229	-0.08	0.58	0.99	PCI/G	UJ	T06, N02
SU4-41-008	F6C030180	GAMMA	Uranium 235	-0.15	0.49	0.87	PCI/G	UJ	T06
SU4-41-008	F6C030180	GAMMA	Uranium 238	0.53	0.98	1.8	PCI/G	UJ	T06
SU4-41-009	F6C030180	EML A-01-R	Plutonium-238	0.115	0.081	0.079	PCI/G	J	T04
SU4-41-009	F6C030180	EML A-01-R	Plutonium-239/240	0.006	0.024	0.051	PCI/G	UJ	T06
SU4-41-009	F6C030180	EML A-01-R	Thorium-228	1.55	0.3	0.06	PCI/G	=	
SU4-41-009	F6C030180	EML A-01-R	Thorium-230	0.89	0.21	0.05	PCI/G	=	
SU4-41-009	F6C030180	EML A-01-R	Thorium-232	1.59	0.31	0.06	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Actinium 227	1.77	0.47	0.81	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Actinium 228	1	0.43	0.47	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Americium 241	-0.05	0.13	0.22	PCI/G	UJ	T06, N02
SU4-41-009	F6C030180	GAMMA	Bismuth 214	0.47	0.23	0.19	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Bismuth-207	-0.0004	0.045	0.082	PCI/G	UJ	T06
SU4-41-009	F6C030180	GAMMA	Bismuth-210M	-0.056	0.068	0.11	PCI/G	UJ	T06, N02
SU4-41-009	F6C030180	GAMMA	Cesium 137	-0.025	0.053	0.092	PCI/G	UJ	T06
SU4-41-009	F6C030180	GAMMA	Cobalt 60	0.024	0.055	0.12	PCI/G	UJ	T06, N02
SU4-41-009	F6C030180	GAMMA	Lead 210	0.9	1.5	2.8	PCI/G	UJ	T06, N02
SU4-41-009	F6C030180	GAMMA	Lead 212	1.11	0.24	0.16	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Potassium 40	18	2.9	0.2	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Protactinium 231	1.8	1.3	2.5	PCI/G	U	T05, N02
SU4-41-009	F6C030180	GAMMA	Radium (226)	0.47	0.23	0.19	PCI/G	J	T15

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-009	F6C030180	GAMMA	Radium 228	1	0.43	0.47	PCI/G	=	
SU4-41-009	F6C030180	GAMMA	Thorium 229	-0.29	0.65	1.1	PCI/G	UJ	T06, N02
SU4-41-009	F6C030180	GAMMA	Uranium 235	-0.46	0.73	0.99	PCI/G	UJ	T06
SU4-41-009	F6C030180	GAMMA	Uranium 238	1.3	1.2	2.2	PCI/G	U	T05
SU4-41-010	F6C030180	EML A-01-R	Plutonium-238	-0.025	0.04	0.09	PCI/G	UJ	T06
SU4-41-010	F6C030180	EML A-01-R	Plutonium-239/240	-0.008	0.029	0.064	PCI/G	UJ	T06
SU4-41-010	F6C030180	EML A-01-R	Thorium-228	1.49	0.46	0.12	PCI/G	=	
SU4-41-010	F6C030180	EML A-01-R	Thorium-230	0.99	0.36	0.1	PCI/G	=	
SU4-41-010	F6C030180	EML A-01-R	Thorium-232	1.74	0.51	0.07	PCI/G	=	
SU4-41-010	F6C030180	GAMMA	Actinium 227	0.36	0.31	0.54	PCI/G	U	T05, N02
SU4-41-010	F6C030180	GAMMA	Actinium 228	1.1	0.47	0.47	PCI/G	=	
SU4-41-010	F6C030180	GAMMA	Americium 241	0.03	0.11	0.21	PCI/G	UJ	T06, N02
SU4-41-010	F6C030180	GAMMA	Bismuth 214	0.71	0.24	0.24	PCI/G	=	
SU4-41-010	F6C030180	GAMMA	Bismuth-207	0.027	0.051	0.1	PCI/G	UJ	T06
SU4-41-010	F6C030180	GAMMA	Bismuth-210M	-0.021	0.063	0.11	PCI/G	UJ	T06, N02
SU4-41-010	F6C030180	GAMMA	Cesium 137	-0.093	0.078	0.13	PCI/G	UJ	T06
SU4-41-010	F6C030180	GAMMA	Cobalt 60	0.007	0.078	0.16	PCI/G	UJ	T06, N02
SU4-41-010	F6C030180	GAMMA	Lead 210	0.3	1.4	2.6	PCI/G	UJ	T06, N02
SU4-41-010	F6C030180	GAMMA	Lead 212	1.34	0.26	0.19	PCI/G	=	
SU4-41-010	F6C030180	GAMMA	Potassium 40	31.4	4.9	1.2	PCI/G	=	
SU4-41-010	F6C030180	GAMMA	Protactinium 231	-1.8	1.5	2.4	PCI/G	UJ	T06, N02
SU4-41-010	F6C030180	GAMMA	Radium (226)	0.71	0.24	0.24	PCI/G	J	T15
SU4-41-010	F6C030180	GAMMA	Radium 228	1.1	0.47	0.47	PCI/G	=	
SU4-41-010	F6C030180	GAMMA	Thorium 229	-0.55	0.69	1.1	PCI/G	UJ	T06, N02
SU4-41-010	F6C030180	GAMMA	Uranium 235	0.26	0.68	1.2	PCI/G	UJ	T06
SU4-41-010	F6C030180	GAMMA	Uranium 238	-0.8	1.1	1.9	PCI/G	UJ	T06
SU4-41-011	F6C030180	EML A-01-R	Plutonium-238	0.065	0.073	0.092	PCI/G	UJ	T06
SU4-41-011	F6C030180	EML A-01-R	Plutonium-239/240	0.005	0.028	0.061	PCI/G	UJ	T06
SU4-41-011	F6C030180	EML A-01-R	Thorium-228	1.56	0.32	0.06	PCI/G	=	
SU4-41-011	F6C030180	EML A-01-R	Thorium-230	1.12	0.26	0.05	PCI/G	=	
SU4-41-011	F6C030180	EML A-01-R	Thorium-232	1.7	0.33	0.05	PCI/G	=	
SU4-41-011	F6C030180	GAMMA	Actinium 227	-0.21	0.43	0.62	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Actinium 228	1.92	0.62	0.36	PCI/G	=	
SU4-41-011	F6C030180	GAMMA	Americium 241	0.04	0.15	0.25	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Bismuth 214	0.76	0.28	0.49	PCI/G	=	
SU4-41-011	F6C030180	GAMMA	Bismuth-207	0.052	0.063	0.13	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Bismuth-210M	-0.004	0.085	0.14	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Cesium 137	-0.008	0.062	0.12	PCI/G	UJ	T06
SU4-41-011	F6C030180	GAMMA	Cobalt 60	-0.0007	0.072	0.14	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Lead 210	0.2	1.6	3	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Lead 212	1.3	0.27	0.22	PCI/G	=	
SU4-41-011	F6C030180	GAMMA	Potassium 40	33.5	5.2	1.3	PCI/G	=	
SU4-41-011	F6C030180	GAMMA	Protactinium 231	-1.3	1.6	2.6	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Radium (226)	0.76	0.28	0.49	PCI/G	J	T15
SU4-41-011	F6C030180	GAMMA	Radium 228	1.92	0.62	0.36	PCI/G	=	
SU4-41-011	F6C030180	GAMMA	Thorium 229	-0.03	0.82	1.4	PCI/G	UJ	T06, N02
SU4-41-011	F6C030180	GAMMA	Uranium 235	0.02	0.77	1.2	PCI/G	UJ	T06
SU4-41-011	F6C030180	GAMMA	Uranium 238	1.7	1.8	2	PCI/G	UJ	T06
SU4-41-012	F6C030180	EML A-01-R	Plutonium-238	0.27	0.12	0.08	PCI/G	=	
SU4-41-012	F6C030180	EML A-01-R	Plutonium-239/240	0.004	0.025	0.053	PCI/G	UJ	T06
SU4-41-012	F6C030180	EML A-01-R	Thorium-228	0.62	0.18	0.07	PCI/G	=	
SU4-41-012	F6C030180	EML A-01-R	Thorium-230	0.89	0.21	0.04	PCI/G	=	
SU4-41-012	F6C030180	EML A-01-R	Thorium-232	0.93	0.22	0.05	PCI/G	=	
SU4-41-012	F6C030180	GAMMA	Actinium 227	0.88	0.33	0.59	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-012	F6C030180	GAMMA	Actinium 228	0.59	0.39	0.37	PCI/G	J	T04
SU4-41-012	F6C030180	GAMMA	Americium 241	-0.2	0.11	0.17	PCI/G	UJ	T06, N02
SU4-41-012	F6C030180	GAMMA	Bismuth 214	0.57	0.2	0.18	PCI/G	=	
SU4-41-012	F6C030180	GAMMA	Bismuth-207	0.025	0.042	0.082	PCI/G	UJ	T06
SU4-41-012	F6C030180	GAMMA	Bismuth-210M	-0.082	0.065	0.1	PCI/G	UJ	T06
SU4-41-012	F6C030180	GAMMA	Cesium 137	0.008	0.054	0.1	PCI/G	UJ	T06
SU4-41-012	F6C030180	GAMMA	Cobalt 60	-0.007	0.057	0.11	PCI/G	UJ	T06, N02
SU4-41-012	F6C030180	GAMMA	Lead 210	0.6	1.3	2.3	PCI/G	UJ	T06, N02
SU4-41-012	F6C030180	GAMMA	Lead 212	0.57	0.14	0.15	PCI/G	=	
SU4-41-012	F6C030180	GAMMA	Potassium 40	11.4	2.4	0.8	PCI/G	=	
SU4-41-012	F6C030180	GAMMA	Protactinium 231	1.5	1.2	2.3	PCI/G	U	T05, N02
SU4-41-012	F6C030180	GAMMA	Radium (226)	0.57	0.2	0.18	PCI/G	J	T15
SU4-41-012	F6C030180	GAMMA	Radium 228	0.59	0.39	0.37	PCI/G	J	T04
SU4-41-012	F6C030180	GAMMA	Thorium 229	-0.08	0.62	1.1	PCI/G	UJ	T06, N02
SU4-41-012	F6C030180	GAMMA	Uranium 235	-1.19	0.65	0.9	PCI/G	UJ	T06
SU4-41-012	F6C030180	GAMMA	Uranium 238	0.8	1.1	1.9	PCI/G	UJ	T06
SU4-41-013	F6C030180	EML A-01-R	Plutonium-238	-0.003	0.046	0.09	PCI/G	UJ	T06
SU4-41-013	F6C030180	EML A-01-R	Plutonium-239/240	-0.012	0.032	0.072	PCI/G	UJ	T06
SU4-41-013	F6C030180	EML A-01-R	Thorium-228	0.57	0.18	0.06	PCI/G	=	
SU4-41-013	F6C030180	EML A-01-R	Thorium-230	1.09	0.27	0.06	PCI/G	=	
SU4-41-013	F6C030180	EML A-01-R	Thorium-232	0.57	0.18	0.06	PCI/G	=	
SU4-41-013	F6C030180	GAMMA	Actinium 227	0.09	0.23	0.38	PCI/G	UJ	T06, N02
SU4-41-013	F6C030180	GAMMA	Actinium 228	0.21	0.21	0.25	PCI/G	U	T05
SU4-41-013	F6C030180	GAMMA	Americium 241	-0.031	0.071	0.13	PCI/G	UJ	T06, N02
SU4-41-013	F6C030180	GAMMA	Bismuth 214	0.68	0.18	0.37	PCI/G	=	
SU4-41-013	F6C030180	GAMMA	Bismuth-207	0.005	0.035	0.066	PCI/G	UJ	T06
SU4-41-013	F6C030180	GAMMA	Bismuth-210M	0.005	0.041	0.078	PCI/G	UJ	T06
SU4-41-013	F6C030180	GAMMA	Cesium 137	-0.031	0.043	0.078	PCI/G	UJ	T06
SU4-41-013	F6C030180	GAMMA	Cobalt 60	0.036	0.054	0.12	PCI/G	UJ	T06, N02
SU4-41-013	F6C030180	GAMMA	Lead 210	0.35	0.95	1.8	PCI/G	UJ	T06, N02
SU4-41-013	F6C030180	GAMMA	Lead 212	0.407	0.097	0.1	PCI/G	=	
SU4-41-013	F6C030180	GAMMA	Potassium 40	11	2	0.7	PCI/G	=	
SU4-41-013	F6C030180	GAMMA	Protactinium 231	-0.34	0.91	1.6	PCI/G	UJ	T06, N02
SU4-41-013	F6C030180	GAMMA	Radium (226)	0.68	0.18	0.37	PCI/G	J	T15
SU4-41-013	F6C030180	GAMMA	Radium 228	0.21	0.21	0.25	PCI/G	U	T05
SU4-41-013	F6C030180	GAMMA	Thorium 229	-0.03	0.46	0.81	PCI/G	UJ	T06, N02
SU4-41-013	F6C030180	GAMMA	Uranium 235	-0.02	0.41	0.73	PCI/G	UJ	T06
SU4-41-013	F6C030180	GAMMA	Uranium 238	0.46	0.75	1.4	PCI/G	UJ	T06
SU4-41-014	F6C030180	EML A-01-R	Plutonium-238	0.043	0.049	0.059	PCI/G	UJ	T06
SU4-41-014	F6C030180	EML A-01-R	Plutonium-239/240	0.008	0.022	0.043	PCI/G	UJ	T06
SU4-41-014	F6C030180	EML A-01-R	Thorium-228	0.9	0.32	0.16	PCI/G	=	
SU4-41-014	F6C030180	EML A-01-R	Thorium-230	0.89	0.31	0.1	PCI/G	=	
SU4-41-014	F6C030180	EML A-01-R	Thorium-232	0.79	0.29	0.06	PCI/G	=	
SU4-41-014	F6C030180	GAMMA	Actinium 227	0.33	0.3	0.53	PCI/G	U	T05, N02
SU4-41-014	F6C030180	GAMMA	Actinium 228	0.59	0.29	0.62	PCI/G	U	T05
SU4-41-014	F6C030180	GAMMA	Americium 241	0.01	0.11	0.2	PCI/G	UJ	T06, N02
SU4-41-014	F6C030180	GAMMA	Bismuth 214	0.6	0.23	0.42	PCI/G	=	
SU4-41-014	F6C030180	GAMMA	Bismuth-207	-0.032	0.051	0.084	PCI/G	UJ	T06
SU4-41-014	F6C030180	GAMMA	Bismuth-210M	0.042	0.061	0.12	PCI/G	UJ	T06, N02
SU4-41-014	F6C030180	GAMMA	Cesium 137	-0.006	0.063	0.12	PCI/G	UJ	T06
SU4-41-014	F6C030180	GAMMA	Cobalt 60	0.044	0.06	0.14	PCI/G	UJ	T06, N02
SU4-41-014	F6C030180	GAMMA	Lead 210	0.2	1.3	2.5	PCI/G	UJ	T06, N02
SU4-41-014	F6C030180	GAMMA	Lead 212	0.62	0.17	0.16	PCI/G	=	
SU4-41-014	F6C030180	GAMMA	Potassium 40	20.7	3.6	1	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-014	F6C030180	GAMMA	Protactinium 231	-0.04	1.1	2.1	PCI/G	UJ	T06, N02
SU4-41-014	F6C030180	GAMMA	Radium (226)	0.6	0.23	0.42	PCI/G	J	T15
SU4-41-014	F6C030180	GAMMA	Radium 228	0.59	0.29	0.62	PCI/G	U	T05
SU4-41-014	F6C030180	GAMMA	Thorium 229	-0.03	0.64	1.1	PCI/G	UJ	T06, N02
SU4-41-014	F6C030180	GAMMA	Uranium 235	-0.09	0.63	1.1	PCI/G	UJ	T06
SU4-41-014	F6C030180	GAMMA	Uranium 238	0.9	1.1	2.1	PCI/G	UJ	T06
SU4-41-015	F6C030180	EML A-01-R	Plutonium-238	0.159	0.089	0.069	PCI/G	J	T04
SU4-41-015	F6C030180	EML A-01-R	Plutonium-239/240	0.23	0.1	0.03	PCI/G	=	
SU4-41-015	F6C030180	EML A-01-R	Thorium-228	1.03	0.24	0.06	PCI/G	=	
SU4-41-015	F6C030180	EML A-01-R	Thorium-230	0.96	0.23	0.07	PCI/G	=	
SU4-41-015	F6C030180	EML A-01-R	Thorium-232	1.32	0.28	0.04	PCI/G	=	
SU4-41-015	F6C030180	GAMMA	Actinium 227	1.67	0.41	0.73	PCI/G	=	
SU4-41-015	F6C030180	GAMMA	Actinium 228	0.72	0.37	0.3	PCI/G	J	T04
SU4-41-015	F6C030180	GAMMA	Americium 241	-0.1	0.13	0.21	PCI/G	UJ	T06, N02
SU4-41-015	F6C030180	GAMMA	Bismuth 214	0.63	0.21	0.35	PCI/G	=	
SU4-41-015	F6C030180	GAMMA	Bismuth-207	0.023	0.047	0.089	PCI/G	UJ	T06
SU4-41-015	F6C030180	GAMMA	Bismuth-210M	-0.099	0.067	0.1	PCI/G	UJ	T06
SU4-41-015	F6C030180	GAMMA	Cesium 137	-0.003	0.058	0.1	PCI/G	UJ	T06
SU4-41-015	F6C030180	GAMMA	Cobalt 60	-0.018	0.063	0.11	PCI/G	UJ	T06, N02
SU4-41-015	F6C030180	GAMMA	Lead 210	0.4	1.4	2.5	PCI/G	UJ	T06, N02
SU4-41-015	F6C030180	GAMMA	Lead 212	0.85	0.21	0.16	PCI/G	=	
SU4-41-015	F6C030180	GAMMA	Potassium 40	21.1	3.5	0.8	PCI/G	=	
SU4-41-015	F6C030180	GAMMA	Protactinium 231	0.7	1.3	2	PCI/G	UJ	T06, N02
SU4-41-015	F6C030180	GAMMA	Radium (226)	0.63	0.21	0.35	PCI/G	J	T15
SU4-41-015	F6C030180	GAMMA	Radium 228	0.72	0.37	0.3	PCI/G	J	T04
SU4-41-015	F6C030180	GAMMA	Thorium 229	0.09	0.66	1.2	PCI/G	UJ	T06, N02
SU4-41-015	F6C030180	GAMMA	Uranium 235	-0.48	0.65	1.1	PCI/G	UJ	T06
SU4-41-015	F6C030180	GAMMA	Uranium 238	0.6	1.2	2.1	PCI/G	UJ	T06
SU4-41-016	F6C300245	EML A-01-R	Plutonium-238	24.3	3.1	0.08	PCI/G	=	
SU4-41-016	F6C300245	EML A-01-R	Plutonium-239/240	0.22	0.11	0.03	PCI/G	J	T04
SU4-41-016	F6C300245	EML A-01-R	Thorium-228	3.35	0.44	0.05	PCI/G	=	
SU4-41-016	F6C300245	EML A-01-R	Thorium-230	1.19	0.22	0.04	PCI/G	=	
SU4-41-016	F6C300245	EML A-01-R	Thorium-232	3.3	0.44	0.02	PCI/G	=	
SU4-41-016	F6C300245	GAMMA	Actinium 227	0.28	0.41	0.65	PCI/G	UJ	T06, N02
SU4-41-016	F6C300245	GAMMA	Actinium 228	2.48	0.7	0.47	PCI/G	=	
SU4-41-016	F6C300245	GAMMA	Americium 241	0.04	0.14	0.24	PCI/G	UJ	J01, T06, N02
SU4-41-016	F6C300245	GAMMA	Bismuth 214	0.82	0.2	0.39	PCI/G	=	
SU4-41-016	F6C300245	GAMMA	Bismuth-207	-0.006	0.058	0.1	PCI/G	UJ	T06
SU4-41-016	F6C300245	GAMMA	Bismuth-210M	-0.016	0.084	0.12	PCI/G	UJ	T06, N02
SU4-41-016	F6C300245	GAMMA	Cesium 137	-0.03	0.076	0.13	PCI/G	UJ	T06
SU4-41-016	F6C300245	GAMMA	Cobalt 60	-0.041	0.063	0.11	PCI/G	UJ	T06, N02
SU4-41-016	F6C300245	GAMMA	Lead 210	0.4	1.6	2.8	PCI/G	UJ	T06, N02
SU4-41-016	F6C300245	GAMMA	Lead 212	2.67	0.3	0.15	PCI/G	=	
SU4-41-016	F6C300245	GAMMA	Potassium 40	30.1	3.6	1	PCI/G	=	
SU4-41-016	F6C300245	GAMMA	Protactinium 231	-1.2	1.7	2.8	PCI/G	UJ	T06, N02
SU4-41-016	F6C300245	GAMMA	Radium (226)	0.82	0.2	0.39	PCI/G	J	T15
SU4-41-016	F6C300245	GAMMA	Radium 228	2.48	0.7	0.47	PCI/G	=	
SU4-41-016	F6C300245	GAMMA	Thorium 229	-0.05	0.79	1.4	PCI/G	UJ	T06, N02
SU4-41-016	F6C300245	GAMMA	Uranium 235	0.58	0.82	1.3	PCI/G	UJ	T06
SU4-41-016	F6C300245	GAMMA	Uranium 238	0.5	1.3	2.4	PCI/G	UJ	T06
SU4-41-017	F6C030180	EML A-01-R	Plutonium-238	0.153	0.087	0.062	PCI/G	J	T04
SU4-41-017	F6C030180	EML A-01-R	Plutonium-239/240	-0.002	0.023	0.046	PCI/G	UJ	T06
SU4-41-017	F6C030180	EML A-01-R	Thorium-228	1.41	0.32	0.1	PCI/G	=	
SU4-41-017	F6C030180	EML A-01-R	Thorium-230	1.21	0.28	0.05	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-017	F6C030180	EML A-01-R	Thorium-232	1.48	0.32	0.05	PCI/G	=	
SU4-41-017	F6C030180	GAMMA	Actinium 227	0.11	0.41	0.66	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Actinium 228	0.86	0.56	0.36	PCI/G	J	T04
SU4-41-017	F6C030180	GAMMA	Americium 241	-0.03	0.15	0.26	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Bismuth 214	0.9	0.27	0.54	PCI/G	=	
SU4-41-017	F6C030180	GAMMA	Bismuth-207	-0.029	0.054	0.092	PCI/G	UJ	T06
SU4-41-017	F6C030180	GAMMA	Bismuth-210M	-0.048	0.084	0.14	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Cesium 137	-0.013	0.069	0.13	PCI/G	UJ	T06
SU4-41-017	F6C030180	GAMMA	Cobalt 60	0.029	0.076	0.17	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Lead 210	0.2	1.7	3.3	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Lead 212	1.2	0.23	0.18	PCI/G	=	
SU4-41-017	F6C030180	GAMMA	Potassium 40	30.1	5	1.2	PCI/G	=	
SU4-41-017	F6C030180	GAMMA	Protactinium 231	-2.2	1.7	2.5	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Radium (226)	0.9	0.27	0.54	PCI/G	J	T15
SU4-41-017	F6C030180	GAMMA	Radium 228	0.86	0.56	0.36	PCI/G	J	T04
SU4-41-017	F6C030180	GAMMA	Thorium 229	-0.07	0.74	1.3	PCI/G	UJ	T06, N02
SU4-41-017	F6C030180	GAMMA	Uranium 235	0.13	0.73	1.4	PCI/G	UJ	T06
SU4-41-017	F6C030180	GAMMA	Uranium 238	0.5	1.5	2.8	PCI/G	UJ	T06
SU4-41-018	F6C300245	EML A-01-R	Plutonium-238	0.109	0.067	0.055	PCI/G	J	T04
SU4-41-018	F6C300245	EML A-01-R	Plutonium-239/240	0.007	0.019	0.036	PCI/G	UJ	T06
SU4-41-018	F6C300245	EML A-01-R	Thorium-228	1.32	0.23	0.05	PCI/G	=	
SU4-41-018	F6C300245	EML A-01-R	Thorium-230	0.98	0.19	0.03	PCI/G	=	
SU4-41-018	F6C300245	EML A-01-R	Thorium-232	1.37	0.24	0.04	PCI/G	=	
SU4-41-018	F6C300245	GAMMA	Actinium 227	0.1	0.29	0.45	PCI/G	UJ	T06, N02
SU4-41-018	F6C300245	GAMMA	Actinium 228	1.55	0.56	0.36	PCI/G	=	
SU4-41-018	F6C300245	GAMMA	Americium 241	-0.1	0.11	0.19	PCI/G	UJ	J01, T06, N02
SU4-41-018	F6C300245	GAMMA	Bismuth 214	0.81	0.2	0.41	PCI/G	=	
SU4-41-018	F6C300245	GAMMA	Bismuth-207	-0.007	0.056	0.098	PCI/G	UJ	T06
SU4-41-018	F6C300245	GAMMA	Bismuth-210M	-0.012	0.058	0.1	PCI/G	UJ	T06
SU4-41-018	F6C300245	GAMMA	Cesium 137	-0.069	0.062	0.11	PCI/G	UJ	T06
SU4-41-018	F6C300245	GAMMA	Cobalt 60	0.044	0.07	0.15	PCI/G	UJ	T06, N02
SU4-41-018	F6C300245	GAMMA	Lead 210	1.3	1.3	2.4	PCI/G	U	T05, N02
SU4-41-018	F6C300245	GAMMA	Lead 212	1.42	0.19	0.12	PCI/G	=	
SU4-41-018	F6C300245	GAMMA	Potassium 40	36.7	4	0.8	PCI/G	=	
SU4-41-018	F6C300245	GAMMA	Protactinium 231	-1.6	1.3	2	PCI/G	UJ	T06, N02
SU4-41-018	F6C300245	GAMMA	Radium (226)	0.81	0.2	0.41	PCI/G	J	T15
SU4-41-018	F6C300245	GAMMA	Radium 228	1.55	0.56	0.36	PCI/G	=	
SU4-41-018	F6C300245	GAMMA	Thorium 229	-0.14	0.59	1	PCI/G	UJ	T06, N02
SU4-41-018	F6C300245	GAMMA	Uranium 235	-0.3	0.59	0.99	PCI/G	UJ	T06
SU4-41-018	F6C300245	GAMMA	Uranium 238	1.1	1.1	2	PCI/G	U	T05
SU4-41-019	F6C030180	EML A-01-R	Plutonium-238	-0.01	0.028	0.063	PCI/G	UJ	T06
SU4-41-019	F6C030180	EML A-01-R	Plutonium-239/240	0.003	0.027	0.059	PCI/G	UJ	T06
SU4-41-019	F6C030180	EML A-01-R	Thorium-228	1.07	0.23	0.05	PCI/G	=	
SU4-41-019	F6C030180	EML A-01-R	Thorium-230	0.97	0.21	0.04	PCI/G	=	
SU4-41-019	F6C030180	EML A-01-R	Thorium-232	1.14	0.24	0.03	PCI/G	=	
SU4-41-019	F6C030180	GAMMA	Actinium 227	-0.11	0.3	0.43	PCI/G	UJ	T06, N02
SU4-41-019	F6C030180	GAMMA	Actinium 228	0.91	0.41	0.39	PCI/G	=	
SU4-41-019	F6C030180	GAMMA	Americium 241	-0.055	0.095	0.17	PCI/G	UJ	T06, N02
SU4-41-019	F6C030180	GAMMA	Bismuth 214	0.4	0.2	0.36	PCI/G	J	T04
SU4-41-019	F6C030180	GAMMA	Bismuth-207	0.009	0.048	0.091	PCI/G	UJ	T06
SU4-41-019	F6C030180	GAMMA	Bismuth-210M	0.029	0.068	0.13	PCI/G	UJ	T06, N02
SU4-41-019	F6C030180	GAMMA	Cesium 137	0.044	0.058	0.12	PCI/G	UJ	T06
SU4-41-019	F6C030180	GAMMA	Cobalt 60	0.03	0.056	0.13	PCI/G	UJ	T06, N02
SU4-41-019	F6C030180	GAMMA	Lead 210	0.8	1.2	2.2	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-019	F6C030180	GAMMA	Lead 212	0.98	0.22	0.17	PCI/G	=	
SU4-41-019	F6C030180	GAMMA	Potassium 40	26.2	4	0.9	PCI/G	=	
SU4-41-019	F6C030180	GAMMA	Protactinium 231	-0.4	1.1	2	PCI/G	UJ	T06, N02
SU4-41-019	F6C030180	GAMMA	Radium (226)	0.4	0.2	0.36	PCI/G	J	T04, T15
SU4-41-019	F6C030180	GAMMA	Radium 228	0.91	0.41	0.39	PCI/G	=	
SU4-41-019	F6C030180	GAMMA	Thorium 229	-0.36	0.64	1.1	PCI/G	UJ	T06, N02
SU4-41-019	F6C030180	GAMMA	Uranium 235	-0.07	0.71	1.1	PCI/G	UJ	T06
SU4-41-019	F6C030180	GAMMA	Uranium 238	0.58	0.96	1.8	PCI/G	UJ	T06
SU4-41-020	F6C030180	EML A-01-R	Plutonium-238	0.2	0.099	0.058	PCI/G	=	
SU4-41-020	F6C030180	EML A-01-R	Plutonium-239/240	0.02	0.032	0.046	PCI/G	UJ	T06
SU4-41-020	F6C030180	EML A-01-R	Thorium-228	0.54	0.17	0.07	PCI/G	=	
SU4-41-020	F6C030180	EML A-01-R	Thorium-230	0.75	0.2	0.06	PCI/G	=	
SU4-41-020	F6C030180	EML A-01-R	Thorium-232	0.52	0.16	0.07	PCI/G	=	
SU4-41-020	F6C030180	GAMMA	Actinium 227	-0.13	0.21	0.29	PCI/G	UJ	T06, N02
SU4-41-020	F6C030180	GAMMA	Actinium 228	0.29	0.27	0.53	PCI/G	U	T05
SU4-41-020	F6C030180	GAMMA	Americium 241	0.007	0.081	0.14	PCI/G	UJ	T06, N02
SU4-41-020	F6C030180	GAMMA	Bismuth 214	0.38	0.18	0.33	PCI/G	=	
SU4-41-020	F6C030180	GAMMA	Bismuth-207	-0.009	0.037	0.067	PCI/G	UJ	T06
SU4-41-020	F6C030180	GAMMA	Bismuth-210M	0.008	0.052	0.097	PCI/G	UJ	T06
SU4-41-020	F6C030180	GAMMA	Cesium 137	-0.015	0.045	0.082	PCI/G	UJ	T06
SU4-41-020	F6C030180	GAMMA	Cobalt 60	-0.02	0.043	0.078	PCI/G	UJ	T06
SU4-41-020	F6C030180	GAMMA	Lead 210	-1	1	1.8	PCI/G	UJ	T06, N02
SU4-41-020	F6C030180	GAMMA	Lead 212	0.32	0.11	0.13	PCI/G	=	
SU4-41-020	F6C030180	GAMMA	Potassium 40	10.8	2.1	0.2	PCI/G	=	
SU4-41-020	F6C030180	GAMMA	Protactinium 231	-0.95	0.86	1.3	PCI/G	UJ	T06, N02
SU4-41-020	F6C030180	GAMMA	Radium (226)	0.38	0.18	0.33	PCI/G	J	T15
SU4-41-020	F6C030180	GAMMA	Radium 228	0.29	0.27	0.53	PCI/G	U	T05
SU4-41-020	F6C030180	GAMMA	Thorium 229	-0.23	0.51	0.86	PCI/G	UJ	T06, N02
SU4-41-020	F6C030180	GAMMA	Uranium 235	-0.13	0.46	0.81	PCI/G	UJ	T06
SU4-41-020	F6C030180	GAMMA	Uranium 238	-0.07	0.8	1.5	PCI/G	UJ	T06
SU4-41-021	F6C030186	EML A-01-R	Plutonium-238	0.025	0.047	0.071	PCI/G	UJ	T06
SU4-41-021	F6C030186	EML A-01-R	Plutonium-239/240	-0.008	0.027	0.058	PCI/G	UJ	T06
SU4-41-021	F6C030186	EML A-01-R	Thorium-228	1.25	0.26	0.08	PCI/G	J	J01
SU4-41-021	F6C030186	EML A-01-R	Thorium-230	1.04	0.23	0.04	PCI/G	=	
SU4-41-021	F6C030186	EML A-01-R	Thorium-232	1.96	0.35	0.05	PCI/G	J	J01
SU4-41-021	F6C030186	GAMMA	Actinium 227	0.07	0.28	0.43	PCI/G	UJ	T06, N02
SU4-41-021	F6C030186	GAMMA	Actinium 228	1.48	0.56	0.37	PCI/G	=	
SU4-41-021	F6C030186	GAMMA	Americium 241	-0.026	0.095	0.17	PCI/G	UJ	T06, N02
SU4-41-021	F6C030186	GAMMA	Bismuth 214	0.67	0.19	0.35	PCI/G	=	
SU4-41-021	F6C030186	GAMMA	Bismuth-207	0.004	0.04	0.076	PCI/G	UJ	T06
SU4-41-021	F6C030186	GAMMA	Bismuth-210M	-0.023	0.056	0.097	PCI/G	UJ	T06
SU4-41-021	F6C030186	GAMMA	Cesium 137	0.043	0.055	0.11	PCI/G	UJ	T06
SU4-41-021	F6C030186	GAMMA	Cobalt 60	-0.043	0.063	0.11	PCI/G	UJ	T06, N02
SU4-41-021	F6C030186	GAMMA	Lead 210	0.2	1.1	1.9	PCI/G	UJ	T06, N02
SU4-41-021	F6C030186	GAMMA	Lead 212	1.56	0.26	0.18	PCI/G	=	
SU4-41-021	F6C030186	GAMMA	Potassium 40	17.4	2.8	0.7	PCI/G	=	
SU4-41-021	F6C030186	GAMMA	Protactinium 231	0.5	1.1	1.8	PCI/G	UJ	T06, N02
SU4-41-021	F6C030186	GAMMA	Radium (226)	0.67	0.19	0.35	PCI/G	J	T15
SU4-41-021	F6C030186	GAMMA	Radium 228	1.48	0.56	0.37	PCI/G	=	
SU4-41-021	F6C030186	GAMMA	Thorium 229	0.38	0.59	1.1	PCI/G	UJ	T06, N02
SU4-41-021	F6C030186	GAMMA	Uranium 235	0.16	0.58	0.99	PCI/G	UJ	T06
SU4-41-021	F6C030186	GAMMA	Uranium 238	0.09	0.97	1.7	PCI/G	UJ	T06
SU4-41-022	F6C030186	EML A-01-R	Plutonium-238	0.187	0.088	0.058	PCI/G	=	
SU4-41-022	F6C030186	EML A-01-R	Plutonium-239/240	0.016	0.027	0.038	PCI/G	UJ	T06

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-022	F6C030186	EML A-01-R	Thorium-228	0.32	0.12	0.08	PCI/G	J	J01
SU4-41-022	F6C030186	EML A-01-R	Thorium-230	0.73	0.18	0.04	PCI/G	=	
SU4-41-022	F6C030186	EML A-01-R	Thorium-232	0.36	0.12	0.04	PCI/G	J	J01
SU4-41-022	F6C030186	GAMMA	Actinium 227	-0.08	0.22	0.32	PCI/G	UJ	T06, N02
SU4-41-022	F6C030186	GAMMA	Actinium 228	0.2	0.18	0.39	PCI/G	U	T05
SU4-41-022	F6C030186	GAMMA	Americium 241	0.018	0.074	0.13	PCI/G	UJ	T06, N02
SU4-41-022	F6C030186	GAMMA	Bismuth 214	0.36	0.15	0.29	PCI/G	=	
SU4-41-022	F6C030186	GAMMA	Bismuth-207	-0.004	0.024	0.046	PCI/G	UJ	T06
SU4-41-022	F6C030186	GAMMA	Bismuth-210M	-0.038	0.045	0.073	PCI/G	UJ	T06
SU4-41-022	F6C030186	GAMMA	Cesium 137	0.014	0.034	0.073	PCI/G	UJ	T06
SU4-41-022	F6C030186	GAMMA	Cobalt 60	0.008	0.047	0.099	PCI/G	UJ	T06
SU4-41-022	F6C030186	GAMMA	Lead 210	0.12	0.92	1.8	PCI/G	UJ	T06, N02
SU4-41-022	F6C030186	GAMMA	Lead 212	0.251	0.093	0.14	PCI/G	=	
SU4-41-022	F6C030186	GAMMA	Potassium 40	5.6	1.6	0.9	PCI/G	=	
SU4-41-022	F6C030186	GAMMA	Protactinium 231	0.09	0.8	1.5	PCI/G	UJ	T06, N02
SU4-41-022	F6C030186	GAMMA	Radium (226)	0.36	0.15	0.29	PCI/G	J	T15
SU4-41-022	F6C030186	GAMMA	Radium 228	0.2	0.18	0.39	PCI/G	U	T05
SU4-41-022	F6C030186	GAMMA	Thorium 229	-0.45	0.48	0.76	PCI/G	UJ	T06, N02
SU4-41-022	F6C030186	GAMMA	Uranium 235	0.15	0.39	0.74	PCI/G	UJ	T06
SU4-41-022	F6C030186	GAMMA	Uranium 238	-0.18	0.75	1.3	PCI/G	UJ	T06
SU4-41-023	F6C030186	EML A-01-R	Plutonium-238	-0.009	0.028	0.062	PCI/G	UJ	T06
SU4-41-023	F6C030186	EML A-01-R	Plutonium-239/240	-0.004	0.024	0.049	PCI/G	UJ	T06
SU4-41-023	F6C030186	EML A-01-R	Thorium-228	1.12	0.24	0.07	PCI/G	J	J01
SU4-41-023	F6C030186	EML A-01-R	Thorium-230	0.81	0.2	0.05	PCI/G	=	
SU4-41-023	F6C030186	EML A-01-R	Thorium-232	1.08	0.23	0.05	PCI/G	J	J01
SU4-41-023	F6C030186	GAMMA	Actinium 227	-0.1	0.35	0.51	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Actinium 228	0.66	0.46	0.74	PCI/G	U	T05
SU4-41-023	F6C030186	GAMMA	Americium 241	0.08	0.11	0.21	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Bismuth 214	0.61	0.22	0.42	PCI/G	=	
SU4-41-023	F6C030186	GAMMA	Bismuth-207	0.007	0.046	0.09	PCI/G	UJ	T06
SU4-41-023	F6C030186	GAMMA	Bismuth-210M	0.03	0.064	0.12	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Cesium 137	0.021	0.062	0.13	PCI/G	UJ	T06
SU4-41-023	F6C030186	GAMMA	Cobalt 60	-0.059	0.08	0.14	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Lead 210	0.5	1.3	2.5	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Lead 212	1	0.19	0.13	PCI/G	=	
SU4-41-023	F6C030186	GAMMA	Potassium 40	28	4.3	1	PCI/G	=	
SU4-41-023	F6C030186	GAMMA	Protactinium 231	-1.2	1.2	2	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Radium (226)	0.61	0.22	0.42	PCI/G	J	T15
SU4-41-023	F6C030186	GAMMA	Radium 228	0.66	0.46	0.74	PCI/G	U	T05
SU4-41-023	F6C030186	GAMMA	Thorium 229	0.07	0.67	1.2	PCI/G	UJ	T06, N02
SU4-41-023	F6C030186	GAMMA	Uranium 235	0.3	0.61	1.1	PCI/G	UJ	T06
SU4-41-023	F6C030186	GAMMA	Uranium 238	0.9	1.1	2.1	PCI/G	UJ	T06
SU4-41-023D	F6C030186	EML A-01-R	Plutonium-238	0.006	0.023	0.049	PCI/G	UJ	T06
SU4-41-023D	F6C030186	EML A-01-R	Plutonium-239/240	-0.002	0.022	0.042	PCI/G	UJ	T06
SU4-41-023D	F6C030186	EML A-01-R	Thorium-228	1	0.23	0.09	PCI/G	J	J01
SU4-41-023D	F6C030186	EML A-01-R	Thorium-230	0.68	0.18	0.06	PCI/G	=	
SU4-41-023D	F6C030186	EML A-01-R	Thorium-232	0.95	0.22	0.06	PCI/G	J	J01
SU4-41-023D	F6C030186	GAMMA	Actinium 227	1.48	0.47	0.82	PCI/G	=	
SU4-41-023D	F6C030186	GAMMA	Actinium 228	0.78	0.39	0.45	PCI/G	J	T04
SU4-41-023D	F6C030186	GAMMA	Americium 241	-0.14	0.15	0.24	PCI/G	UJ	T06, N02
SU4-41-023D	F6C030186	GAMMA	Bismuth 214	0.68	0.27	0.4	PCI/G	=	
SU4-41-023D	F6C030186	GAMMA	Bismuth-207	-0.009	0.052	0.092	PCI/G	UJ	T06
SU4-41-023D	F6C030186	GAMMA	Bismuth-210M	0.025	0.084	0.13	PCI/G	UJ	T06, N02
SU4-41-023D	F6C030186	GAMMA	Cesium 137	0.004	0.062	0.12	PCI/G	UJ	T06

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-023D	F6C030186	GAMMA	Cobalt 60	-0.021	0.078	0.14	PCI/G	UJ	T06, N02
SU4-41-023D	F6C030186	GAMMA	Lead 210	0.3	1.6	2.9	PCI/G	UJ	T06, N02
SU4-41-023D	F6C030186	GAMMA	Lead 212	1.06	0.22	0.22	PCI/G	=	
SU4-41-023D	F6C030186	GAMMA	Potassium 40	28.8	4.6	1	PCI/G	=	
SU4-41-023D	F6C030186	GAMMA	Protactinium 231	1.3	1.3	2.4	PCI/G	U	T05, N02
SU4-41-023D	F6C030186	GAMMA	Radium (226)	0.68	0.27	0.4	PCI/G	J	T15
SU4-41-023D	F6C030186	GAMMA	Radium 228	0.78	0.39	0.45	PCI/G	J	T04
SU4-41-023D	F6C030186	GAMMA	Thorium 229	-0.36	0.74	1.2	PCI/G	UJ	T06, N02
SU4-41-023D	F6C030186	GAMMA	Uranium 235	-0.23	0.73	1.2	PCI/G	UJ	T06
SU4-41-023D	F6C030186	GAMMA	Uranium 238	0.8	1.3	2.4	PCI/G	UJ	T06
SU4-41-024	F6C030186	EML A-01-R	Plutonium-238	0.32	0.12	0.04	PCI/G	=	
SU4-41-024	F6C030186	EML A-01-R	Plutonium-239/240	0.006	0.022	0.046	PCI/G	UJ	T06
SU4-41-024	F6C030186	EML A-01-R	Thorium-228	1.43	0.29	0.07	PCI/G	J	J01
SU4-41-024	F6C030186	EML A-01-R	Thorium-230	0.84	0.21	0.06	PCI/G	=	
SU4-41-024	F6C030186	EML A-01-R	Thorium-232	1.36	0.28	0.07	PCI/G	J	J01
SU4-41-024	F6C030186	GAMMA	Actinium 227	0.1	0.31	0.51	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Actinium 228	1.57	0.62	0.42	PCI/G	=	
SU4-41-024	F6C030186	GAMMA	Americium 241	-0.09	0.14	0.23	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Bismuth 214	0.74	0.22	0.2	PCI/G	=	
SU4-41-024	F6C030186	GAMMA	Bismuth-207	-0.032	0.049	0.081	PCI/G	UJ	T06
SU4-41-024	F6C030186	GAMMA	Bismuth-210M	-0.042	0.076	0.13	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Cesium 137	0.039	0.065	0.13	PCI/G	UJ	T06
SU4-41-024	F6C030186	GAMMA	Cobalt 60	0.04	0.055	0.13	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Lead 210	1	1.5	2.8	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Lead 212	1.33	0.26	0.17	PCI/G	=	
SU4-41-024	F6C030186	GAMMA	Potassium 40	23.5	3.8	0.9	PCI/G	=	
SU4-41-024	F6C030186	GAMMA	Protactinium 231	-2.3	1.4	2	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Radium (226)	0.74	0.22	0.2	PCI/G	J	T15
SU4-41-024	F6C030186	GAMMA	Radium 228	1.57	0.62	0.42	PCI/G	=	
SU4-41-024	F6C030186	GAMMA	Thorium 229	0.38	0.71	1.3	PCI/G	UJ	T06, N02
SU4-41-024	F6C030186	GAMMA	Uranium 235	-0.29	0.73	1.3	PCI/G	UJ	T06
SU4-41-024	F6C030186	GAMMA	Uranium 238	1.9	1.3	2.5	PCI/G	U	T05
SU4-41-025	F6C030186	EML A-01-R	Plutonium-238	0.079	0.055	0.038	PCI/G	J	T04
SU4-41-025	F6C030186	EML A-01-R	Plutonium-239/240	-0.003	0.021	0.044	PCI/G	UJ	T06
SU4-41-025	F6C030186	EML A-01-R	Thorium-228	0.6	0.17	0.1	PCI/G	J	J01
SU4-41-025	F6C030186	EML A-01-R	Thorium-230	0.57	0.16	0.07	PCI/G	=	
SU4-41-025	F6C030186	EML A-01-R	Thorium-232	0.59	0.17	0.09	PCI/G	J	J01
SU4-41-025	F6C030186	GAMMA	Actinium 227	0.66	0.33	0.56	PCI/G	J	T04
SU4-41-025	F6C030186	GAMMA	Actinium 228	0.48	0.39	0.3	PCI/G	J	T04
SU4-41-025	F6C030186	GAMMA	Americium 241	0.11	0.11	0.17	PCI/G	U	T05, N02
SU4-41-025	F6C030186	GAMMA	Bismuth 214	0.4	0.18	0.29	PCI/G	=	
SU4-41-025	F6C030186	GAMMA	Bismuth-207	-0.01	0.038	0.067	PCI/G	UJ	T06
SU4-41-025	F6C030186	GAMMA	Bismuth-210M	-0.022	0.052	0.089	PCI/G	UJ	T06
SU4-41-025	F6C030186	GAMMA	Cesium 137	-0.031	0.053	0.091	PCI/G	UJ	T06
SU4-41-025	F6C030186	GAMMA	Cobalt 60	-0.018	0.047	0.085	PCI/G	UJ	T06
SU4-41-025	F6C030186	GAMMA	Lead 210	0.7	1.2	2.3	PCI/G	UJ	T06, N02
SU4-41-025	F6C030186	GAMMA	Lead 212	0.55	0.14	0.12	PCI/G	=	
SU4-41-025	F6C030186	GAMMA	Potassium 40	13.2	2.4	1	PCI/G	=	
SU4-41-025	F6C030186	GAMMA	Protactinium 231	-0.8	1	1.7	PCI/G	UJ	T06, N02
SU4-41-025	F6C030186	GAMMA	Radium (226)	0.4	0.18	0.29	PCI/G	J	T15
SU4-41-025	F6C030186	GAMMA	Radium 228	0.48	0.39	0.3	PCI/G	J	T04
SU4-41-025	F6C030186	GAMMA	Thorium 229	-0.1	0.56	0.96	PCI/G	UJ	T06, N02
SU4-41-025	F6C030186	GAMMA	Uranium 235	-0.55	0.56	0.89	PCI/G	UJ	T06
SU4-41-025	F6C030186	GAMMA	Uranium 238	1.22	0.95	1.8	PCI/G	U	T05

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-026	F6C030186	EML A-01-R	Plutonium-238	0.128	0.081	0.066	PCI/G	J	T04
SU4-41-026	F6C030186	EML A-01-R	Plutonium-239/240	0	0	0.03	PCI/G	U	T05
SU4-41-026	F6C030186	EML A-01-R	Thorium-228	0.99	0.23	0.07	PCI/G	J	J01
SU4-41-026	F6C030186	EML A-01-R	Thorium-230	0.89	0.21	0.05	PCI/G	=	
SU4-41-026	F6C030186	EML A-01-R	Thorium-232	1.02	0.23	0.06	PCI/G	J	J01
SU4-41-026	F6C030186	GAMMA	Actinium 227	0.93	0.34	0.61	PCI/G	=	
SU4-41-026	F6C030186	GAMMA	Actinium 228	0.59	0.26	0.26	PCI/G	=	
SU4-41-026	F6C030186	GAMMA	Americium 241	0.12	0.11	0.18	PCI/G	U	T05, N02
SU4-41-026	F6C030186	GAMMA	Bismuth 214	0.51	0.23	0.18	PCI/G	=	
SU4-41-026	F6C030186	GAMMA	Bismuth-207	-0.035	0.041	0.065	PCI/G	UJ	T06
SU4-41-026	F6C030186	GAMMA	Bismuth-210M	-0.06	0.062	0.1	PCI/G	UJ	T06
SU4-41-026	F6C030186	GAMMA	Cesium 137	0.013	0.051	0.098	PCI/G	UJ	T06
SU4-41-026	F6C030186	GAMMA	Cobalt 60	0.008	0.048	0.098	PCI/G	UJ	T06
SU4-41-026	F6C030186	GAMMA	Lead 210	0.7	1.3	2.4	PCI/G	UJ	T06, N02
SU4-41-026	F6C030186	GAMMA	Lead 212	0.56	0.16	0.13	PCI/G	=	
SU4-41-026	F6C030186	GAMMA	Potassium 40	16.5	3	0.8	PCI/G	=	
SU4-41-026	F6C030186	GAMMA	Protactinium 231	0.4	1.1	2	PCI/G	UJ	T06, N02
SU4-41-026	F6C030186	GAMMA	Radium (226)	0.51	0.23	0.18	PCI/G	J	T15
SU4-41-026	F6C030186	GAMMA	Radium 228	0.59	0.26	0.26	PCI/G	=	
SU4-41-026	F6C030186	GAMMA	Thorium 229	-0.08	0.58	1	PCI/G	UJ	T06, N02
SU4-41-026	F6C030186	GAMMA	Uranium 235	-0.47	0.55	0.89	PCI/G	UJ	T06
SU4-41-026	F6C030186	GAMMA	Uranium 238	0.96	0.83	1.6	PCI/G	U	T05
SU4-41-027	F6C030186	EML A-01-R	Plutonium-238	0.067	0.062	0.071	PCI/G	U	T05
SU4-41-027	F6C030186	EML A-01-R	Plutonium-239/240	-0.002	0.02	0.04	PCI/G	UJ	T06
SU4-41-027	F6C030186	EML A-01-R	Thorium-228	0.27	0.12	0.1	PCI/G	J	J01
SU4-41-027	F6C030186	EML A-01-R	Thorium-230	0.73	0.2	0.04	PCI/G	=	
SU4-41-027	F6C030186	EML A-01-R	Thorium-232	0.3	0.12	0.06	PCI/G	J	J01
SU4-41-027	F6C030186	GAMMA	Actinium 227	0.11	0.19	0.3	PCI/G	UJ	T06, N02
SU4-41-027	F6C030186	GAMMA	Actinium 228	0.2	0.14	0.3	PCI/G	U	T05
SU4-41-027	F6C030186	GAMMA	Americium 241	-0.083	0.074	0.12	PCI/G	UJ	T06, N02
SU4-41-027	F6C030186	GAMMA	Bismuth 214	0.41	0.13	0.23	PCI/G	=	
SU4-41-027	F6C030186	GAMMA	Bismuth-207	-0.016	0.023	0.037	PCI/G	UJ	T06
SU4-41-027	F6C030186	GAMMA	Bismuth-210M	-0.035	0.038	0.063	PCI/G	UJ	T06
SU4-41-027	F6C030186	GAMMA	Cesium 137	0.013	0.033	0.065	PCI/G	UJ	T06
SU4-41-027	F6C030186	GAMMA	Cobalt 60	0.004	0.034	0.07	PCI/G	UJ	T06
SU4-41-027	F6C030186	GAMMA	Lead 210	-0.26	0.84	1.5	PCI/G	UJ	T06, N02
SU4-41-027	F6C030186	GAMMA	Lead 212	0.189	0.051	0.07	PCI/G	=	
SU4-41-027	F6C030186	GAMMA	Potassium 40	5.5	1.1	0.6	PCI/G	=	
SU4-41-027	F6C030186	GAMMA	Protactinium 231	0.79	0.71	1.3	PCI/G	U	T05, N02
SU4-41-027	F6C030186	GAMMA	Radium (226)	0.41	0.13	0.23	PCI/G	J	T15
SU4-41-027	F6C030186	GAMMA	Radium 228	0.2	0.14	0.3	PCI/G	U	T05
SU4-41-027	F6C030186	GAMMA	Thorium 229	-0.23	0.39	0.65	PCI/G	UJ	T06, N02
SU4-41-027	F6C030186	GAMMA	Uranium 235	0.39	0.36	0.69	PCI/G	U	T05
SU4-41-027	F6C030186	GAMMA	Uranium 238	0.57	0.67	1.3	PCI/G	UJ	T06
SU4-41-028	F6C030186	EML A-01-R	Plutonium-238	0.231	0.091	0.04	PCI/G	=	
SU4-41-028	F6C030186	EML A-01-R	Plutonium-239/240	-0.003	0.019	0.04	PCI/G	UJ	T06
SU4-41-028	F6C030186	EML A-01-R	Thorium-228	0.4	0.14	0.09	PCI/G	J	J01
SU4-41-028	F6C030186	EML A-01-R	Thorium-230	0.42	0.14	0.05	PCI/G	J	F01
SU4-41-028	F6C030186	EML A-01-R	Thorium-232	0.33	0.12	0.05	PCI/G	J	J01
SU4-41-028	F6C030186	GAMMA	Actinium 227	-0.14	0.18	0.25	PCI/G	UJ	T06, N02
SU4-41-028	F6C030186	GAMMA	Actinium 228	0.24	0.17	0.38	PCI/G	U	T05
SU4-41-028	F6C030186	GAMMA	Americium 241	0.046	0.07	0.13	PCI/G	UJ	T06, N02
SU4-41-028	F6C030186	GAMMA	Bismuth 214	0.35	0.14	0.27	PCI/G	=	
SU4-41-028	F6C030186	GAMMA	Bismuth-207	0.019	0.027	0.058	PCI/G	UJ	T06

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-028	F6C030186	GAMMA	Bismuth-210M	-0.042	0.036	0.055	PCI/G	UJ	T06
SU4-41-028	F6C030186	GAMMA	Cesium 137	0.002	0.039	0.076	PCI/G	UJ	T06
SU4-41-028	F6C030186	GAMMA	Cobalt 60	0.0005	0.023	0.055	PCI/G	UJ	T06
SU4-41-028	F6C030186	GAMMA	Lead 210	0.92	0.86	1.8	PCI/G	U	T05, N02
SU4-41-028	F6C030186	GAMMA	Lead 212	0.283	0.075	0.067	PCI/G	=	
SU4-41-028	F6C030186	GAMMA	Potassium 40	5.4	1.3	0.6	PCI/G	=	
SU4-41-028	F6C030186	GAMMA	Protactinium 231	-0.07	0.86	1.5	PCI/G	UJ	T06, N02
SU4-41-028	F6C030186	GAMMA	Radium (226)	0.35	0.14	0.27	PCI/G	J	T15
SU4-41-028	F6C030186	GAMMA	Radium 228	0.24	0.17	0.38	PCI/G	U	T05
SU4-41-028	F6C030186	GAMMA	Thorium 229	-0.04	0.4	0.7	PCI/G	UJ	T06, N02
SU4-41-028	F6C030186	GAMMA	Uranium 235	0.01	0.33	0.62	PCI/G	UJ	T06
SU4-41-028	F6C030186	GAMMA	Uranium 238	0.38	0.71	1.3	PCI/G	UJ	T06
SU4-41-029	F6C030186	EML A-01-R	Plutonium-238	-0.005	0.032	0.072	PCI/G	UJ	T06
SU4-41-029	F6C030186	EML A-01-R	Plutonium-239/240	-0.002	0.022	0.043	PCI/G	UJ	T06
SU4-41-029	F6C030186	EML A-01-R	Thorium-228	1.17	0.27	0.03	PCI/G	J	J01
SU4-41-029	F6C030186	EML A-01-R	Thorium-230	1.06	0.25	0.05	PCI/G	=	
SU4-41-029	F6C030186	EML A-01-R	Thorium-232	0.91	0.23	0.05	PCI/G	J	J01
SU4-41-029	F6C030186	GAMMA	Actinium 227	0.08	0.26	0.41	PCI/G	UJ	T06, N02
SU4-41-029	F6C030186	GAMMA	Actinium 228	0.8	0.4	0.38	PCI/G	J	T04
SU4-41-029	F6C030186	GAMMA	Americium 241	0.023	0.084	0.16	PCI/G	UJ	T06, N02
SU4-41-029	F6C030186	GAMMA	Bismuth 214	0.58	0.2	0.37	PCI/G	=	
SU4-41-029	F6C030186	GAMMA	Bismuth-207	0.015	0.041	0.081	PCI/G	UJ	T06
SU4-41-029	F6C030186	GAMMA	Bismuth-210M	-0.058	0.047	0.073	PCI/G	UJ	T06
SU4-41-029	F6C030186	GAMMA	Cesium 137	0.006	0.051	0.1	PCI/G	UJ	T06
SU4-41-029	F6C030186	GAMMA	Cobalt 60	-0.029	0.053	0.098	PCI/G	UJ	T06
SU4-41-029	F6C030186	GAMMA	Lead 210	0.09	0.96	1.8	PCI/G	UJ	T06, N02
SU4-41-029	F6C030186	GAMMA	Lead 212	0.71	0.15	0.15	PCI/G	=	
SU4-41-029	F6C030186	GAMMA	Potassium 40	21.1	3.3	0.7	PCI/G	=	
SU4-41-029	F6C030186	GAMMA	Protactinium 231	-1	1	1.7	PCI/G	UJ	T06, N02
SU4-41-029	F6C030186	GAMMA	Radium (226)	0.58	0.2	0.37	PCI/G	J	T15
SU4-41-029	F6C030186	GAMMA	Radium 228	0.8	0.4	0.38	PCI/G	J	T04
SU4-41-029	F6C030186	GAMMA	Thorium 229	0.02	0.46	0.84	PCI/G	UJ	T06, N02
SU4-41-029	F6C030186	GAMMA	Uranium 235	-0.02	0.5	0.88	PCI/G	UJ	T06
SU4-41-029	F6C030186	GAMMA	Uranium 238	0.004	0.85	1.6	PCI/G	UJ	T06
SU4-41-030	F6C030186	EML A-01-R	Plutonium-238	0.084	0.065	0.059	PCI/G	J	T04
SU4-41-030	F6C030186	EML A-01-R	Plutonium-239/240	0.008	0.022	0.044	PCI/G	UJ	T06
SU4-41-030	F6C030186	EML A-01-R	Thorium-228	1.15	0.26	0.07	PCI/G	J	J01
SU4-41-030	F6C030186	EML A-01-R	Thorium-230	0.91	0.22	0.03	PCI/G	=	
SU4-41-030	F6C030186	EML A-01-R	Thorium-232	1.37	0.29	0.04	PCI/G	J	J01
SU4-41-030	F6C030186	GAMMA	Actinium 227	-0.08	0.36	0.53	PCI/G	UJ	T06, N02
SU4-41-030	F6C030186	GAMMA	Actinium 228	1.27	0.45	0.33	PCI/G	=	
SU4-41-030	F6C030186	GAMMA	Americium 241	-0.14	0.12	0.19	PCI/G	UJ	T06, N02
SU4-41-030	F6C030186	GAMMA	Bismuth 214	0.47	0.2	0.39	PCI/G	=	
SU4-41-030	F6C030186	GAMMA	Bismuth-207	0.013	0.045	0.089	PCI/G	UJ	T06
SU4-41-030	F6C030186	GAMMA	Bismuth-210M	-0.045	0.066	0.11	PCI/G	UJ	T06, N02
SU4-41-030	F6C030186	GAMMA	Cesium 137	-0.022	0.061	0.11	PCI/G	UJ	T06
SU4-41-030	F6C030186	GAMMA	Cobalt 60	0.019	0.049	0.11	PCI/G	UJ	T06, N02
SU4-41-030	F6C030186	GAMMA	Lead 210	-0.4	1.3	2.4	PCI/G	UJ	T06, N02
SU4-41-030	F6C030186	GAMMA	Lead 212	0.71	0.2	0.18	PCI/G	=	
SU4-41-030	F6C030186	GAMMA	Potassium 40	22.9	3.8	1.1	PCI/G	=	
SU4-41-030	F6C030186	GAMMA	Protactinium 231	-1.5	1.4	2.2	PCI/G	UJ	T06, N02
SU4-41-030	F6C030186	GAMMA	Radium (226)	0.47	0.2	0.39	PCI/G	J	T15
SU4-41-030	F6C030186	GAMMA	Radium 228	1.27	0.45	0.33	PCI/G	=	
SU4-41-030	F6C030186	GAMMA	Thorium 229	-0.34	0.64	1.1	PCI/G	UJ	T06, N02

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-030	F6C030186	GAMMA	Uranium 235	-0.24	0.59	1	PCI/G	UJ	T06
SU4-41-030	F6C030186	GAMMA	Uranium 238	1	1.2	2.2	PCI/G	UJ	T06
SU4-41-031	F6C030186	EML A-01-R	Plutonium-238	0.179	0.087	0.047	PCI/G	=	
SU4-41-031	F6C030186	EML A-01-R	Plutonium-239/240	0	0	0.03	PCI/G	U	T05
SU4-41-031	F6C030186	EML A-01-R	Thorium-228	1.07	0.25	0.1	PCI/G	J	J01
SU4-41-031	F6C030186	EML A-01-R	Thorium-230	0.75	0.2	0.08	PCI/G	=	
SU4-41-031	F6C030186	EML A-01-R	Thorium-232	1.02	0.24	0.04	PCI/G	J	J01
SU4-41-031	F6C030186	GAMMA	Actinium 227	1.06	0.41	0.69	PCI/G	=	
SU4-41-031	F6C030186	GAMMA	Actinium 228	0.43	0.45	0.4	PCI/G	J	T04
SU4-41-031	F6C030186	GAMMA	Americium 241	0.02	0.14	0.21	PCI/G	UJ	T06, N02
SU4-41-031	F6C030186	GAMMA	Bismuth 214	0.56	0.25	0.37	PCI/G	=	
SU4-41-031	F6C030186	GAMMA	Bismuth-207	0.004	0.035	0.066	PCI/G	UJ	T06
SU4-41-031	F6C030186	GAMMA	Bismuth-210M	-0.019	0.07	0.12	PCI/G	UJ	T06, N02
SU4-41-031	F6C030186	GAMMA	Cesium 137	0.05	0.063	0.12	PCI/G	UJ	T06
SU4-41-031	F6C030186	GAMMA	Cobalt 60	-0.025	0.062	0.11	PCI/G	UJ	T06, N02
SU4-41-031	F6C030186	GAMMA	Lead 210	1	1.3	2.4	PCI/G	UJ	T06, N02
SU4-41-031	F6C030186	GAMMA	Lead 212	0.57	0.16	0.15	PCI/G	=	
SU4-41-031	F6C030186	GAMMA	Potassium 40	20.8	3.2	0.7	PCI/G	=	
SU4-41-031	F6C030186	GAMMA	Protactinium 231	0.6	1.4	2.2	PCI/G	UJ	T06, N02
SU4-41-031	F6C030186	GAMMA	Radium (226)	0.56	0.25	0.37	PCI/G	J	T15
SU4-41-031	F6C030186	GAMMA	Radium 228	0.43	0.45	0.4	PCI/G	J	T04
SU4-41-031	F6C030186	GAMMA	Thorium 229	-0.08	0.63	1.1	PCI/G	UJ	T06, N02
SU4-41-031	F6C030186	GAMMA	Uranium 235	-0.33	0.66	1.1	PCI/G	UJ	T06
SU4-41-031	F6C030186	GAMMA	Uranium 238	0.87	0.95	2	PCI/G	UJ	T06
SU4-41-032	F6C030186	EML A-01-R	Plutonium-238	0.016	0.03	0.047	PCI/G	UJ	T06
SU4-41-032	F6C030186	EML A-01-R	Plutonium-239/240	0.008	0.021	0.041	PCI/G	UJ	T06
SU4-41-032	F6C030186	EML A-01-R	Thorium-228	0.82	0.22	0.1	PCI/G	J	J01
SU4-41-032	F6C030186	EML A-01-R	Thorium-230	0.81	0.21	0.06	PCI/G	=	
SU4-41-032	F6C030186	EML A-01-R	Thorium-232	0.85	0.21	0.06	PCI/G	J	J01
SU4-41-032	F6C030186	GAMMA	Actinium 227	-0.14	0.22	0.29	PCI/G	UJ	T06, N02
SU4-41-032	F6C030186	GAMMA	Actinium 228	0.64	0.27	0.54	PCI/G	=	
SU4-41-032	F6C030186	GAMMA	Americium 241	-0.031	0.077	0.14	PCI/G	UJ	T06, N02
SU4-41-032	F6C030186	GAMMA	Bismuth 214	0.38	0.15	0.3	PCI/G	=	
SU4-41-032	F6C030186	GAMMA	Bismuth-207	-0.004	0.04	0.074	PCI/G	UJ	T06
SU4-41-032	F6C030186	GAMMA	Bismuth-210M	0.006	0.047	0.088	PCI/G	UJ	T06
SU4-41-032	F6C030186	GAMMA	Cesium 137	0.018	0.051	0.1	PCI/G	UJ	T06
SU4-41-032	F6C030186	GAMMA	Cobalt 60	-0.05	0.053	0.087	PCI/G	UJ	T06
SU4-41-032	F6C030186	GAMMA	Lead 210	0.16	0.92	1.7	PCI/G	UJ	T06, N02
SU4-41-032	F6C030186	GAMMA	Lead 212	0.5	0.11	0.09	PCI/G	=	
SU4-41-032	F6C030186	GAMMA	Potassium 40	19.6	3.2	0.6	PCI/G	=	
SU4-41-032	F6C030186	GAMMA	Protactinium 231	-0.05	0.9	1.6	PCI/G	UJ	T06, N02
SU4-41-032	F6C030186	GAMMA	Radium (226)	0.38	0.15	0.3	PCI/G	J	T15
SU4-41-032	F6C030186	GAMMA	Radium 228	0.64	0.27	0.54	PCI/G	=	
SU4-41-032	F6C030186	GAMMA	Thorium 229	0.22	0.49	0.9	PCI/G	UJ	T06, N02
SU4-41-032	F6C030186	GAMMA	Uranium 235	0.3	0.43	0.81	PCI/G	UJ	T06
SU4-41-032	F6C030186	GAMMA	Uranium 238	0.81	0.72	1.4	PCI/G	U	T05
SU4-41-033	F6C030186	EML A-01-R	Plutonium-238	0.01	0.032	0.058	PCI/G	UJ	T06
SU4-41-033	F6C030186	EML A-01-R	Plutonium-239/240	0.008	0.021	0.04	PCI/G	UJ	T06
SU4-41-033	F6C030186	EML A-01-R	Thorium-228	0.58	0.17	0.08	PCI/G	J	J01
SU4-41-033	F6C030186	EML A-01-R	Thorium-230	0.83	0.21	0.06	PCI/G	=	
SU4-41-033	F6C030186	EML A-01-R	Thorium-232	0.53	0.16	0.03	PCI/G	J	J01
SU4-41-033	F6C030186	GAMMA	Actinium 227	0.22	0.2	0.38	PCI/G	U	T05, N02
SU4-41-033	F6C030186	GAMMA	Actinium 228	0.71	0.28	0.57	PCI/G	=	
SU4-41-033	F6C030186	GAMMA	Americium 241	0.073	0.09	0.17	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU4-41-033	F6C030186	GAMMA	Bismuth 214	0.44	0.15	0.31	PCI/G	=	
SU4-41-033	F6C030186	GAMMA	Bismuth-207	0.02	0.037	0.074	PCI/G	UJ	T06
SU4-41-033	F6C030186	GAMMA	Bismuth-210M	-0.042	0.05	0.082	PCI/G	UJ	T06
SU4-41-033	F6C030186	GAMMA	Cesium 137	-0.003	0.044	0.083	PCI/G	UJ	T06
SU4-41-033	F6C030186	GAMMA	Cobalt 60	0.048	0.048	0.12	PCI/G	U	T05, N02
SU4-41-033	F6C030186	GAMMA	Lead 210	-0.2	1.1	1.9	PCI/G	UJ	T06, N02
SU4-41-033	F6C030186	GAMMA	Lead 212	0.42	0.12	0.13	PCI/G	=	
SU4-41-033	F6C030186	GAMMA	Potassium 40	14.4	2.5	0.6	PCI/G	=	
SU4-41-033	F6C030186	GAMMA	Protactinium 231	0.5	1.1	2.1	PCI/G	UJ	T06, N02
SU4-41-033	F6C030186	GAMMA	Radium (226)	0.44	0.15	0.31	PCI/G	J	T15
SU4-41-033	F6C030186	GAMMA	Radium 228	0.71	0.28	0.57	PCI/G	=	
SU4-41-033	F6C030186	GAMMA	Thorium 229	0.43	0.5	0.96	PCI/G	UJ	T06, N02
SU4-41-033	F6C030186	GAMMA	Uranium 235	0.17	0.49	0.91	PCI/G	UJ	T06
SU4-41-033	F6C030186	GAMMA	Uranium 238	0.43	0.88	1.6	PCI/G	UJ	T06
SU5-41D-001	F6C310402	EML A-01-R	Plutonium-238	19	2.4	0.06	PCI/G	=	
SU5-41D-001	F6C310402	EML A-01-R	Plutonium-239/240	0.103	0.069	0.028	PCI/G	J	J01, T04
SU5-41D-001	F6C310402	EML A-01-R	Thorium-228	0.39	0.13	0.05	PCI/G	=	
SU5-41D-001	F6C310402	EML A-01-R	Thorium-230	0.8	0.19	0.04	PCI/G	=	
SU5-41D-001	F6C310402	EML A-01-R	Thorium-232	0.68	0.18	0.03	PCI/G	=	
SU5-41D-001	F6C310402	GAMMA	Actinium 227	0.21	0.22	0.36	PCI/G	UJ	T06, N02
SU5-41D-001	F6C310402	GAMMA	Actinium 228	0.49	0.19	0.14	PCI/G	J	J01
SU5-41D-001	F6C310402	GAMMA	Americium 241	0.151	0.095	0.14	PCI/G	J	T04
SU5-41D-001	F6C310402	GAMMA	Bismuth 214	0.57	0.15	0.11	PCI/G	=	
SU5-41D-001	F6C310402	GAMMA	Bismuth-207	-0.006	0.032	0.057	PCI/G	UJ	T06
SU5-41D-001	F6C310402	GAMMA	Bismuth-210M	-0.03	0.046	0.077	PCI/G	UJ	T06
SU5-41D-001	F6C310402	GAMMA	Cesium 137	0.019	0.04	0.078	PCI/G	UJ	T06
SU5-41D-001	F6C310402	GAMMA	Cobalt 60	-0.029	0.04	0.068	PCI/G	UJ	T06
SU5-41D-001	F6C310402	GAMMA	Lead 210	0.95	0.92	1.7	PCI/G	U	T05, N02
SU5-41D-001	F6C310402	GAMMA	Lead 212	0.442	0.083	0.099	PCI/G	=	
SU5-41D-001	F6C310402	GAMMA	Potassium 40	9.6	1.7	0.6	PCI/G	=	
SU5-41D-001	F6C310402	GAMMA	Protactinium 231	0.06	0.94	1.7	PCI/G	UJ	T06, N02
SU5-41D-001	F6C310402	GAMMA	Radium (226)	0.57	0.15	0.11	PCI/G	J	T15
SU5-41D-001	F6C310402	GAMMA	Thorium 229	0.03	0.44	0.79	PCI/G	UJ	T06, N02
SU5-41D-001	F6C310402	GAMMA	Uranium 235	-0.42	0.43	0.69	PCI/G	UJ	T06
SU5-41D-001	F6C310402	GAMMA	Uranium 238	0.65	0.86	1.4	PCI/G	UJ	T06
SU5-41D-002	F6C310402	EML A-01-R	Plutonium-238	19.8	2.4	0.07	PCI/G	=	
SU5-41D-002	F6C310402	EML A-01-R	Plutonium-239/240	0.141	0.077	0.025	PCI/G	J	J01, T04
SU5-41D-002	F6C310402	EML A-01-R	Thorium-228	0.63	0.17	0.06	PCI/G	=	
SU5-41D-002	F6C310402	EML A-01-R	Thorium-230	1.06	0.23	0.04	PCI/G	=	
SU5-41D-002	F6C310402	EML A-01-R	Thorium-232	0.53	0.15	0.05	PCI/G	=	
SU5-41D-002	F6C310402	GAMMA	Actinium 227	-0.02	0.21	0.31	PCI/G	UJ	T06, N02
SU5-41D-002	F6C310402	GAMMA	Actinium 228	0.66	0.24	0.45	PCI/G	J	J01
SU5-41D-002	F6C310402	GAMMA	Americium 241	0.04	0.068	0.13	PCI/G	UJ	T06, N02
SU5-41D-002	F6C310402	GAMMA	Bismuth 214	0.76	0.14	0.09	PCI/G	=	
SU5-41D-002	F6C310402	GAMMA	Bismuth-207	0.013	0.03	0.058	PCI/G	UJ	T06
SU5-41D-002	F6C310402	GAMMA	Bismuth-210M	-0.028	0.037	0.063	PCI/G	UJ	T06
SU5-41D-002	F6C310402	GAMMA	Cesium 137	0.02	0.03	0.061	PCI/G	UJ	T06
SU5-41D-002	F6C310402	GAMMA	Cobalt 60	0.012	0.038	0.083	PCI/G	UJ	T06
SU5-41D-002	F6C310402	GAMMA	Lead 210	1.67	0.85	1.7	PCI/G	U	T05, N02
SU5-41D-002	F6C310402	GAMMA	Lead 212	0.4	0.1	0.11	PCI/G	=	
SU5-41D-002	F6C310402	GAMMA	Potassium 40	10.7	1.6	0.6	PCI/G	=	
SU5-41D-002	F6C310402	GAMMA	Protactinium 231	-0.89	0.82	1.3	PCI/G	UJ	T06, N02
SU5-41D-002	F6C310402	GAMMA	Radium (226)	0.76	0.14	0.09	PCI/G	J	T15
SU5-41D-002	F6C310402	GAMMA	Thorium 229	0.18	0.4	0.74	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-002	F6C310402	GAMMA	Uranium 235	0.46	0.41	0.76	PCI/G	U	T05
SU5-41D-002	F6C310402	GAMMA	Uranium 238	0.33	0.64	1.2	PCI/G	UJ	T06
SU5-41D-003	F6C310402	EML A-01-R	Plutonium-238	9.6	1.3	0.09	PCI/G	=	
SU5-41D-003	F6C310402	EML A-01-R	Plutonium-239/240	0.164	0.09	0.03	PCI/G	J	J01, T04
SU5-41D-003	F6C310402	EML A-01-R	Thorium-228	0.51	0.15	0.05	PCI/G	=	
SU5-41D-003	F6C310402	EML A-01-R	Thorium-230	0.86	0.2	0.05	PCI/G	=	
SU5-41D-003	F6C310402	EML A-01-R	Thorium-232	0.59	0.16	0.03	PCI/G	=	
SU5-41D-003	F6C310402	GAMMA	Actinium 227	0.08	0.21	0.35	PCI/G	UJ	T06, N02
SU5-41D-003	F6C310402	GAMMA	Actinium 228	0.4	0.2	0.43	PCI/G	UJ	J01, T05
SU5-41D-003	F6C310402	GAMMA	Americium 241	0.074	0.084	0.15	PCI/G	UJ	T06, N02
SU5-41D-003	F6C310402	GAMMA	Bismuth 214	0.58	0.17	0.32	PCI/G	=	
SU5-41D-003	F6C310402	GAMMA	Bismuth-207	0.007	0.035	0.067	PCI/G	UJ	T06
SU5-41D-003	F6C310402	GAMMA	Bismuth-210M	0.017	0.045	0.084	PCI/G	UJ	T06
SU5-41D-003	F6C310402	GAMMA	Cesium 137	0.037	0.048	0.098	PCI/G	UJ	T06
SU5-41D-003	F6C310402	GAMMA	Cobalt 60	-0.015	0.035	0.066	PCI/G	UJ	T06
SU5-41D-003	F6C310402	GAMMA	Lead 210	0.3	1	2	PCI/G	UJ	T06, N02
SU5-41D-003	F6C310402	GAMMA	Lead 212	0.418	0.091	0.1	PCI/G	=	
SU5-41D-003	F6C310402	GAMMA	Potassium 40	8.6	1.6	0.5	PCI/G	=	
SU5-41D-003	F6C310402	GAMMA	Protactinium 231	-0.42	0.81	1.4	PCI/G	UJ	T06, N02
SU5-41D-003	F6C310402	GAMMA	Radium (226)	0.58	0.17	0.32	PCI/G	J	T15
SU5-41D-003	F6C310402	GAMMA	Thorium 229	-0.03	0.44	0.76	PCI/G	UJ	T06, N02
SU5-41D-003	F6C310402	GAMMA	Uranium 235	0.32	0.45	0.86	PCI/G	UJ	T06
SU5-41D-003	F6C310402	GAMMA	Uranium 238	0.39	0.8	1.5	PCI/G	UJ	T06
SU5-41D-004	F6C310402	EML A-01-R	Plutonium-238	14.9	1.8	0.05	PCI/G	=	
SU5-41D-004	F6C310402	EML A-01-R	Plutonium-239/240	0.27	0.1	0.04	PCI/G	J	J01
SU5-41D-004	F6C310402	EML A-01-R	Thorium-228	0.62	0.17	0.06	PCI/G	=	
SU5-41D-004	F6C310402	EML A-01-R	Thorium-230	0.98	0.22	0.03	PCI/G	=	
SU5-41D-004	F6C310402	EML A-01-R	Thorium-232	0.7	0.18	0.06	PCI/G	=	
SU5-41D-004	F6C310402	GAMMA	Actinium 227	0.62	0.33	0.54	PCI/G	J	T04
SU5-41D-004	F6C310402	GAMMA	Actinium 228	0.75	0.31	0.27	PCI/G	J	J01
SU5-41D-004	F6C310402	GAMMA	Americium 241	-0.13	0.1	0.17	PCI/G	UJ	T06, N02
SU5-41D-004	F6C310402	GAMMA	Bismuth 214	0.71	0.2	0.16	PCI/G	=	
SU5-41D-004	F6C310402	GAMMA	Bismuth-207	0.016	0.036	0.069	PCI/G	UJ	T06
SU5-41D-004	F6C310402	GAMMA	Bismuth-210M	-0.054	0.057	0.093	PCI/G	UJ	T06
SU5-41D-004	F6C310402	GAMMA	Cesium 137	0.021	0.053	0.098	PCI/G	UJ	T06
SU5-41D-004	F6C310402	GAMMA	Cobalt 60	0.013	0.045	0.091	PCI/G	UJ	T06
SU5-41D-004	F6C310402	GAMMA	Lead 210	0.9	1.1	2.1	PCI/G	UJ	T06, N02
SU5-41D-004	F6C310402	GAMMA	Lead 212	0.65	0.1	0.12	PCI/G	=	
SU5-41D-004	F6C310402	GAMMA	Potassium 40	11	2.1	0.7	PCI/G	=	
SU5-41D-004	F6C310402	GAMMA	Protactinium 231	-0.8	1	1.7	PCI/G	UJ	T06, N02
SU5-41D-004	F6C310402	GAMMA	Radium (226)	0.71	0.2	0.16	PCI/G	J	T15
SU5-41D-004	F6C310402	GAMMA	Thorium 229	0.1	0.51	0.89	PCI/G	UJ	T06, N02
SU5-41D-004	F6C310402	GAMMA	Uranium 235	-0.05	0.49	0.85	PCI/G	UJ	T06
SU5-41D-004	F6C310402	GAMMA	Uranium 238	0.43	0.95	1.7	PCI/G	UJ	T06
SU5-41D-005	F6C310402	EML A-01-R	Plutonium-238	3.91	0.59	0.07	PCI/G	=	
SU5-41D-005	F6C310402	EML A-01-R	Plutonium-239/240	0.037	0.039	0.041	PCI/G	UJ	J01, T06
SU5-41D-005	F6C310402	EML A-01-R	Thorium-228	0.56	0.17	0.07	PCI/G	=	
SU5-41D-005	F6C310402	EML A-01-R	Thorium-230	1.17	0.26	0.06	PCI/G	=	
SU5-41D-005	F6C310402	EML A-01-R	Thorium-232	0.71	0.19	0.05	PCI/G	=	
SU5-41D-005	F6C310402	GAMMA	Actinium 227	0.03	0.25	0.38	PCI/G	UJ	T06, N02
SU5-41D-005	F6C310402	GAMMA	Actinium 228	0.53	0.27	0.48	PCI/G	J	J01, T04
SU5-41D-005	F6C310402	GAMMA	Americium 241	0.033	0.08	0.15	PCI/G	UJ	T06, N02
SU5-41D-005	F6C310402	GAMMA	Bismuth 214	0.67	0.18	0.32	PCI/G	=	
SU5-41D-005	F6C310402	GAMMA	Bismuth-207	0.026	0.034	0.068	PCI/G	UJ	T06

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-005	F6C310402	GAMMA	Bismuth-210M	-0.042	0.049	0.079	PCI/G	UJ	T06
SU5-41D-005	F6C310402	GAMMA	Cesium 137	-0.021	0.045	0.076	PCI/G	UJ	T06
SU5-41D-005	F6C310402	GAMMA	Cobalt 60	-0.031	0.032	0.048	PCI/G	UJ	T06
SU5-41D-005	F6C310402	GAMMA	Lead 210	0.77	0.91	1.7	PCI/G	UJ	T06, N02
SU5-41D-005	F6C310402	GAMMA	Lead 212	0.44	0.12	0.13	PCI/G	=	
SU5-41D-005	F6C310402	GAMMA	Potassium 40	11.9	1.8	0.6	PCI/G	=	
SU5-41D-005	F6C310402	GAMMA	Protactinium 231	-0.45	0.91	1.5	PCI/G	UJ	T06, N02
SU5-41D-005	F6C310402	GAMMA	Radium (226)	0.67	0.18	0.32	PCI/G	J	T15
SU5-41D-005	F6C310402	GAMMA	Thorium 229	0.19	0.47	0.86	PCI/G	UJ	T06, N02
SU5-41D-005	F6C310402	GAMMA	Uranium 235	-0.17	0.47	0.82	PCI/G	UJ	T06
SU5-41D-005	F6C310402	GAMMA	Uranium 238	-0.32	0.8	1.4	PCI/G	UJ	T06
SU5-41D-006	F6C310402	EML A-01-R	Plutonium-238	30.3	3.6	0.07	PCI/G	=	
SU5-41D-006	F6C310402	EML A-01-R	Plutonium-239/240	0.197	0.091	0.047	PCI/G	J	J01
SU5-41D-006	F6C310402	EML A-01-R	Thorium-228	0.7	0.19	0.06	PCI/G	=	
SU5-41D-006	F6C310402	EML A-01-R	Thorium-230	0.86	0.21	0.05	PCI/G	=	
SU5-41D-006	F6C310402	EML A-01-R	Thorium-232	0.51	0.16	0.03	PCI/G	=	
SU5-41D-006	F6C310402	GAMMA	Actinium 227	0.5	0.15	0.25	PCI/G	=	
SU5-41D-006	F6C310402	GAMMA	Actinium 228	0.4	0.19	0.16	PCI/G	J	J01
SU5-41D-006	F6C310402	GAMMA	Americium 241	0.099	0.071	0.13	PCI/G	U	T05, N02
SU5-41D-006	F6C310402	GAMMA	Bismuth 214	0.48	0.12	0.24	PCI/G	=	
SU5-41D-006	F6C310402	GAMMA	Bismuth-207	-0.0001	0.026	0.048	PCI/G	UJ	T06
SU5-41D-006	F6C310402	GAMMA	Bismuth-210M	0.009	0.036	0.059	PCI/G	UJ	T06
SU5-41D-006	F6C310402	GAMMA	Cesium 137	0.02	0.04	0.08	PCI/G	UJ	T06
SU5-41D-006	F6C310402	GAMMA	Cobalt 60	0.018	0.039	0.083	PCI/G	UJ	T06
SU5-41D-006	F6C310402	GAMMA	Lead 210	1.06	0.72	1.4	PCI/G	U	T05, N02
SU5-41D-006	F6C310402	GAMMA	Lead 212	0.426	0.073	0.07	PCI/G	=	
SU5-41D-006	F6C310402	GAMMA	Potassium 40	8	1.3	0.4	PCI/G	=	
SU5-41D-006	F6C310402	GAMMA	Protactinium 231	-0.56	0.71	1.2	PCI/G	UJ	T06, N02
SU5-41D-006	F6C310402	GAMMA	Radium (226)	0.48	0.12	0.24	PCI/G	J	T15
SU5-41D-006	F6C310402	GAMMA	Thorium 229	-0.03	0.37	0.65	PCI/G	UJ	T06, N02
SU5-41D-006	F6C310402	GAMMA	Uranium 235	0.06	0.33	0.59	PCI/G	UJ	T06
SU5-41D-006	F6C310402	GAMMA	Uranium 238	0.63	0.63	1.2	PCI/G	U	T05
SU5-41D-007	F6C310402	EML A-01-R	Plutonium-238	42	5	0.07	PCI/G	=	
SU5-41D-007	F6C310402	EML A-01-R	Plutonium-239/240	0.78	0.2	0.04	PCI/G	J	J01
SU5-41D-007	F6C310402	EML A-01-R	Thorium-228	0.5	0.15	0.06	PCI/G	=	
SU5-41D-007	F6C310402	EML A-01-R	Thorium-230	0.68	0.18	0.04	PCI/G	=	
SU5-41D-007	F6C310402	EML A-01-R	Thorium-232	0.49	0.15	0.05	PCI/G	=	
SU5-41D-007	F6C310402	GAMMA	Actinium 227	0.08	0.22	0.36	PCI/G	UJ	T06, N02
SU5-41D-007	F6C310402	GAMMA	Actinium 228	0.26	0.23	0.43	PCI/G	UJ	J01, T05
SU5-41D-007	F6C310402	GAMMA	Americium 241	0.48	0.14	0.15	PCI/G	=	
SU5-41D-007	F6C310402	GAMMA	Bismuth 214	0.59	0.15	0.32	PCI/G	=	
SU5-41D-007	F6C310402	GAMMA	Bismuth-207	0.03	0.032	0.068	PCI/G	UJ	T06
SU5-41D-007	F6C310402	GAMMA	Bismuth-210M	-0.046	0.045	0.071	PCI/G	UJ	T06
SU5-41D-007	F6C310402	GAMMA	Cesium 137	0.022	0.043	0.088	PCI/G	UJ	T06
SU5-41D-007	F6C310402	GAMMA	Cobalt 60	0.007	0.043	0.09	PCI/G	UJ	T06
SU5-41D-007	F6C310402	GAMMA	Lead 210	0.4	1	2	PCI/G	UJ	T06, N02
SU5-41D-007	F6C310402	GAMMA	Lead 212	0.254	0.096	0.12	PCI/G	=	
SU5-41D-007	F6C310402	GAMMA	Potassium 40	7.1	1.6	1	PCI/G	=	
SU5-41D-007	F6C310402	GAMMA	Protactinium 231	0.01	0.81	1.5	PCI/G	UJ	T06, N02
SU5-41D-007	F6C310402	GAMMA	Radium (226)	0.59	0.15	0.32	PCI/G	J	T15
SU5-41D-007	F6C310402	GAMMA	Thorium 229	0.28	0.46	0.86	PCI/G	UJ	T06, N02
SU5-41D-007	F6C310402	GAMMA	Uranium 235	0.12	0.43	0.75	PCI/G	UJ	T06
SU5-41D-007	F6C310402	GAMMA	Uranium 238	1	1	1.5	PCI/G	U	T05
SU5-41D-008	F6C310402	EML A-01-R	Plutonium-238	13.7	1.6	0.05	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-008	F6C310402	EML A-01-R	Plutonium-239/240	0.168	0.081	0.044	PCI/G	J	J01
SU5-41D-008	F6C310402	EML A-01-R	Thorium-228	0.55	0.16	0.06	PCI/G	=	
SU5-41D-008	F6C310402	EML A-01-R	Thorium-230	0.59	0.17	0.05	PCI/G	=	
SU5-41D-008	F6C310402	EML A-01-R	Thorium-232	0.65	0.18	0.04	PCI/G	=	
SU5-41D-008	F6C310402	GAMMA	Actinium 227	0.39	0.24	0.39	PCI/G	U	T05, N02
SU5-41D-008	F6C310402	GAMMA	Actinium 228	0.41	0.2	0.24	PCI/G	J	J01
SU5-41D-008	F6C310402	GAMMA	Americium 241	0.114	0.05	0.13	PCI/G	U	T05, N02
SU5-41D-008	F6C310402	GAMMA	Bismuth 214	0.32	0.13	0.2	PCI/G	=	
SU5-41D-008	F6C310402	GAMMA	Bismuth-207	0.006	0.028	0.051	PCI/G	UJ	T06
SU5-41D-008	F6C310402	GAMMA	Bismuth-210M	-0.062	0.04	0.061	PCI/G	UJ	T06
SU5-41D-008	F6C310402	GAMMA	Cesium 137	0.005	0.032	0.061	PCI/G	UJ	T06
SU5-41D-008	F6C310402	GAMMA	Cobalt 60	0.014	0.031	0.066	PCI/G	UJ	T06
SU5-41D-008	F6C310402	GAMMA	Lead 210	0.05	0.88	1.6	PCI/G	UJ	T06, N02
SU5-41D-008	F6C310402	GAMMA	Lead 212	0.324	0.091	0.099	PCI/G	=	
SU5-41D-008	F6C310402	GAMMA	Potassium 40	8.7	1.5	0.6	PCI/G	=	
SU5-41D-008	F6C310402	GAMMA	Protactinium 231	0.05	0.75	1.3	PCI/G	UJ	T06, N02
SU5-41D-008	F6C310402	GAMMA	Radium (226)	0.32	0.13	0.2	PCI/G	J	T15
SU5-41D-008	F6C310402	GAMMA	Thorium 229	-0.04	0.4	0.66	PCI/G	UJ	T06, N02
SU5-41D-008	F6C310402	GAMMA	Uranium 235	-0.34	0.38	0.6	PCI/G	UJ	T06
SU5-41D-008	F6C310402	GAMMA	Uranium 238	-0.1	0.79	1.2	PCI/G	UJ	T06
SU5-41D-009	F6C310402	EML A-01-R	Plutonium-238	15.1	1.9	0.06	PCI/G	=	
SU5-41D-009	F6C310402	EML A-01-R	Plutonium-239/240	0.29	0.11	0.04	PCI/G	J	J01
SU5-41D-009	F6C310402	EML A-01-R	Thorium-228	0.58	0.16	0.05	PCI/G	=	
SU5-41D-009	F6C310402	EML A-01-R	Thorium-230	0.75	0.19	0.04	PCI/G	=	
SU5-41D-009	F6C310402	EML A-01-R	Thorium-232	0.33	0.12	0.05	PCI/G	=	
SU5-41D-009	F6C310402	GAMMA	Actinium 227	-0.03	0.18	0.27	PCI/G	UJ	T06, N02
SU5-41D-009	F6C310402	GAMMA	Actinium 228	0.33	0.2	0.34	PCI/G	UJ	J01, T05
SU5-41D-009	F6C310402	GAMMA	Americium 241	0.041	0.065	0.12	PCI/G	UJ	T06, N02
SU5-41D-009	F6C310402	GAMMA	Bismuth 214	0.4	0.11	0.23	PCI/G	=	
SU5-41D-009	F6C310402	GAMMA	Bismuth-207	0.018	0.025	0.051	PCI/G	UJ	T06
SU5-41D-009	F6C310402	GAMMA	Bismuth-210M	0.005	0.038	0.068	PCI/G	UJ	T06
SU5-41D-009	F6C310402	GAMMA	Cesium 137	0.005	0.037	0.068	PCI/G	UJ	T06
SU5-41D-009	F6C310402	GAMMA	Cobalt 60	0.012	0.031	0.068	PCI/G	UJ	T06
SU5-41D-009	F6C310402	GAMMA	Lead 210	0.81	0.7	1.2	PCI/G	U	T05, N02
SU5-41D-009	F6C310402	GAMMA	Lead 212	0.292	0.082	0.1	PCI/G	=	
SU5-41D-009	F6C310402	GAMMA	Potassium 40	7.2	1.2	0.7	PCI/G	=	
SU5-41D-009	F6C310402	GAMMA	Protactinium 231	-0.9	0.74	1.1	PCI/G	UJ	T06, N02
SU5-41D-009	F6C310402	GAMMA	Radium (226)	0.4	0.11	0.23	PCI/G	J	T15
SU5-41D-009	F6C310402	GAMMA	Thorium 229	-0.11	0.35	0.62	PCI/G	UJ	T06, N02
SU5-41D-009	F6C310402	GAMMA	Uranium 235	-0.04	0.33	0.58	PCI/G	UJ	T06
SU5-41D-009	F6C310402	GAMMA	Uranium 238	0.14	0.58	1.1	PCI/G	UJ	T06
SU5-41D-010	F6C310402	EML A-01-R	Plutonium-238	1.21	0.26	0.05	PCI/G	=	
SU5-41D-010	F6C310402	EML A-01-R	Plutonium-239/240	0.024	0.037	0.052	PCI/G	UJ	J01, T06
SU5-41D-010	F6C310402	EML A-01-R	Thorium-228	0.76	0.2	0.05	PCI/G	=	
SU5-41D-010	F6C310402	EML A-01-R	Thorium-230	0.8	0.2	0.05	PCI/G	=	
SU5-41D-010	F6C310402	EML A-01-R	Thorium-232	0.86	0.21	0.04	PCI/G	=	
SU5-41D-010	F6C310402	GAMMA	Actinium 227	0.05	0.27	0.41	PCI/G	UJ	T06, N02
SU5-41D-010	F6C310402	GAMMA	Actinium 228	1.06	0.39	0.33	PCI/G	J	J01
SU5-41D-010	F6C310402	GAMMA	Americium 241	0.006	0.09	0.16	PCI/G	UJ	T06, N02
SU5-41D-010	F6C310402	GAMMA	Bismuth 214	0.98	0.21	0.41	PCI/G	=	
SU5-41D-010	F6C310402	GAMMA	Bismuth-207	-0.031	0.041	0.067	PCI/G	UJ	T06
SU5-41D-010	F6C310402	GAMMA	Bismuth-210M	0.048	0.056	0.11	PCI/G	UJ	T06, N02
SU5-41D-010	F6C310402	GAMMA	Cesium 137	0.014	0.054	0.11	PCI/G	UJ	T06
SU5-41D-010	F6C310402	GAMMA	Cobalt 60	-0.021	0.056	0.11	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-010	F6C310402	GAMMA	Lead 210	-0.3	1.2	2	PCI/G	UJ	T06, N02
SU5-41D-010	F6C310402	GAMMA	Lead 212	0.88	0.2	0.15	PCI/G	=	
SU5-41D-010	F6C310402	GAMMA	Potassium 40	27	3.1	1.1	PCI/G	=	
SU5-41D-010	F6C310402	GAMMA	Protactinium 231	-0.2	1.1	1.9	PCI/G	UJ	T06, N02
SU5-41D-010	F6C310402	GAMMA	Radium (226)	0.98	0.21	0.41	PCI/G	J	T15
SU5-41D-010	F6C310402	GAMMA	Thorium 229	-0.006	0.54	0.95	PCI/G	UJ	T06, N02
SU5-41D-010	F6C310402	GAMMA	Uranium 235	-0.31	0.54	0.89	PCI/G	UJ	T06
SU5-41D-010	F6C310402	GAMMA	Uranium 238	0.56	0.89	1.7	PCI/G	UJ	T06
SU5-41D-011	F6C310402	EML A-01-R	Plutonium-238	20	2.5	0.05	PCI/G	=	
SU5-41D-011	F6C310402	EML A-01-R	Plutonium-239/240	0.22	0.099	0.027	PCI/G	J	J01
SU5-41D-011	F6C310402	EML A-01-R	Thorium-228	0.52	0.16	0.07	PCI/G	=	
SU5-41D-011	F6C310402	EML A-01-R	Thorium-230	0.89	0.22	0.06	PCI/G	=	
SU5-41D-011	F6C310402	EML A-01-R	Thorium-232	0.75	0.19	0.05	PCI/G	=	
SU5-41D-011	F6C310402	GAMMA	Actinium 227	0.09	0.21	0.35	PCI/G	UJ	T06, N02
SU5-41D-011	F6C310402	GAMMA	Actinium 228	0.38	0.22	0.45	PCI/G	UJ	J01, T05
SU5-41D-011	F6C310402	GAMMA	Americium 241	0.042	0.078	0.14	PCI/G	UJ	T06, N02
SU5-41D-011	F6C310402	GAMMA	Bismuth 214	0.57	0.17	0.31	PCI/G	=	
SU5-41D-011	F6C310402	GAMMA	Bismuth-207	0.0002	0.029	0.054	PCI/G	UJ	T06
SU5-41D-011	F6C310402	GAMMA	Bismuth-210M	-0.007	0.041	0.074	PCI/G	UJ	T06
SU5-41D-011	F6C310402	GAMMA	Cesium 137	0.027	0.037	0.079	PCI/G	UJ	T06
SU5-41D-011	F6C310402	GAMMA	Cobalt 60	0.037	0.04	0.094	PCI/G	UJ	T06
SU5-41D-011	F6C310402	GAMMA	Lead 210	1.06	0.98	2	PCI/G	U	T05, N02
SU5-41D-011	F6C310402	GAMMA	Lead 212	0.39	0.12	0.13	PCI/G	=	
SU5-41D-011	F6C310402	GAMMA	Potassium 40	9.6	1.6	0.7	PCI/G	=	
SU5-41D-011	F6C310402	GAMMA	Protactinium 231	-0.66	0.81	1.3	PCI/G	UJ	T06, N02
SU5-41D-011	F6C310402	GAMMA	Radium (226)	0.57	0.17	0.31	PCI/G	J	T15
SU5-41D-011	F6C310402	GAMMA	Thorium 229	0.02	0.47	0.81	PCI/G	UJ	T06, N02
SU5-41D-011	F6C310402	GAMMA	Uranium 235	0.16	0.4	0.75	PCI/G	UJ	T06
SU5-41D-011	F6C310402	GAMMA	Uranium 238	0.69	0.78	1.4	PCI/G	UJ	T06
SU5-41D-012	F6C310402	EML A-01-R	Plutonium-238	17.6	2.1	0.06	PCI/G	=	
SU5-41D-012	F6C310402	EML A-01-R	Plutonium-239/240	0.3	0.11	0.05	PCI/G	J	J01
SU5-41D-012	F6C310402	EML A-01-R	Thorium-228	0.37	0.13	0.08	PCI/G	=	
SU5-41D-012	F6C310402	EML A-01-R	Thorium-230	0.7	0.19	0.05	PCI/G	=	
SU5-41D-012	F6C310402	EML A-01-R	Thorium-232	0.34	0.12	0.03	PCI/G	=	
SU5-41D-012	F6C310402	GAMMA	Actinium 227	0.05	0.18	0.3	PCI/G	UJ	T06, N02
SU5-41D-012	F6C310402	GAMMA	Actinium 228	0.57	0.23	0.19	PCI/G	J	J01
SU5-41D-012	F6C310402	GAMMA	Americium 241	0.027	0.079	0.14	PCI/G	UJ	T06, N02
SU5-41D-012	F6C310402	GAMMA	Bismuth 214	0.39	0.14	0.27	PCI/G	=	
SU5-41D-012	F6C310402	GAMMA	Bismuth-207	0.007	0.03	0.058	PCI/G	UJ	T06
SU5-41D-012	F6C310402	GAMMA	Bismuth-210M	0.016	0.037	0.07	PCI/G	UJ	T06
SU5-41D-012	F6C310402	GAMMA	Cesium 137	0.024	0.037	0.076	PCI/G	UJ	T06
SU5-41D-012	F6C310402	GAMMA	Cobalt 60	0.003	0.032	0.068	PCI/G	UJ	T06
SU5-41D-012	F6C310402	GAMMA	Lead 210	-0.06	0.96	1.8	PCI/G	UJ	T06, N02
SU5-41D-012	F6C310402	GAMMA	Lead 212	0.28	0.11	0.1	PCI/G	=	
SU5-41D-012	F6C310402	GAMMA	Potassium 40	7.9	1.4	0.6	PCI/G	=	
SU5-41D-012	F6C310402	GAMMA	Protactinium 231	-0.1	0.79	1.4	PCI/G	UJ	T06, N02
SU5-41D-012	F6C310402	GAMMA	Radium (226)	0.39	0.14	0.27	PCI/G	J	T15
SU5-41D-012	F6C310402	GAMMA	Thorium 229	-0.26	0.43	0.71	PCI/G	UJ	T06, N02
SU5-41D-012	F6C310402	GAMMA	Uranium 235	0.13	0.4	0.74	PCI/G	UJ	T06
SU5-41D-012	F6C310402	GAMMA	Uranium 238	0.21	0.72	1.3	PCI/G	UJ	T06
SU5-41D-013	F6C310402	EML A-01-R	Plutonium-238	25.4	3	0.07	PCI/G	=	
SU5-41D-013	F6C310402	EML A-01-R	Plutonium-239/240	0.213	0.096	0.026	PCI/G	J	J01
SU5-41D-013	F6C310402	EML A-01-R	Thorium-228	0.42	0.14	0.07	PCI/G	=	
SU5-41D-013	F6C310402	EML A-01-R	Thorium-230	0.88	0.21	0.03	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-013	F6C310402	EML A-01-R	Thorium-232	0.47	0.15	0.03	PCI/G	=	
SU5-41D-013	F6C310402	GAMMA	Actinium 227	-0.01	0.17	0.26	PCI/G	UJ	T06, N02
SU5-41D-013	F6C310402	GAMMA	Actinium 228	0.58	0.22	0.18	PCI/G	J	J01
SU5-41D-013	F6C310402	GAMMA	Americium 241	0.123	0.07	0.14	PCI/G	U	T05, N02
SU5-41D-013	F6C310402	GAMMA	Bismuth 214	0.57	0.14	0.27	PCI/G	=	
SU5-41D-013	F6C310402	GAMMA	Bismuth-207	0.02	0.027	0.055	PCI/G	UJ	T06
SU5-41D-013	F6C310402	GAMMA	Bismuth-210M	-0.006	0.035	0.062	PCI/G	UJ	T06
SU5-41D-013	F6C310402	GAMMA	Cesium 137	-0.035	0.039	0.069	PCI/G	UJ	T06
SU5-41D-013	F6C310402	GAMMA	Cobalt 60	0.009	0.037	0.079	PCI/G	UJ	T06
SU5-41D-013	F6C310402	GAMMA	Lead 210	0.22	0.79	1.5	PCI/G	UJ	T06, N02
SU5-41D-013	F6C310402	GAMMA	Lead 212	0.301	0.083	0.089	PCI/G	=	
SU5-41D-013	F6C310402	GAMMA	Potassium 40	7.9	1.3	0.7	PCI/G	=	
SU5-41D-013	F6C310402	GAMMA	Protactinium 231	-0.28	0.68	1.2	PCI/G	UJ	T06, N02
SU5-41D-013	F6C310402	GAMMA	Radium (226)	0.57	0.14	0.27	PCI/G	J	T15
SU5-41D-013	F6C310402	GAMMA	Thorium 229	0.009	0.33	0.58	PCI/G	UJ	T06, N02
SU5-41D-013	F6C310402	GAMMA	Uranium 235	0.12	0.32	0.58	PCI/G	UJ	T06
SU5-41D-013	F6C310402	GAMMA	Uranium 238	0.14	0.55	1	PCI/G	UJ	T06
SU5-41D-014	F6C310402	EML A-01-R	Plutonium-238	0.107	0.072	0.066	PCI/G	J	T04
SU5-41D-014	F6C310402	EML A-01-R	Plutonium-239/240	0.017	0.028	0.04	PCI/G	UJ	J01, T06
SU5-41D-014	F6C310402	EML A-01-R	Thorium-228	0.86	0.21	0.07	PCI/G	=	
SU5-41D-014	F6C310402	EML A-01-R	Thorium-230	1.81	0.34	0.04	PCI/G	=	
SU5-41D-014	F6C310402	EML A-01-R	Thorium-232	0.74	0.19	0.03	PCI/G	=	
SU5-41D-014	F6C310402	GAMMA	Actinium 227	0.39	0.2	0.37	PCI/G	J	T04
SU5-41D-014	F6C310402	GAMMA	Actinium 228	0.6	0.28	0.22	PCI/G	J	J01
SU5-41D-014	F6C310402	GAMMA	Americium 241	0.024	0.079	0.14	PCI/G	UJ	T06, N02
SU5-41D-014	F6C310402	GAMMA	Bismuth 214	0.93	0.17	0.14	PCI/G	=	
SU5-41D-014	F6C310402	GAMMA	Bismuth-207	0.001	0.03	0.056	PCI/G	UJ	T06
SU5-41D-014	F6C310402	GAMMA	Bismuth-210M	-0.006	0.046	0.08	PCI/G	UJ	T06
SU5-41D-014	F6C310402	GAMMA	Cesium 137	0.01	0.039	0.073	PCI/G	UJ	T06
SU5-41D-014	F6C310402	GAMMA	Cobalt 60	-0.013	0.041	0.075	PCI/G	UJ	T06
SU5-41D-014	F6C310402	GAMMA	Lead 210	0.41	0.93	1.7	PCI/G	UJ	T06, N02
SU5-41D-014	F6C310402	GAMMA	Lead 212	0.556	0.089	0.11	PCI/G	=	
SU5-41D-014	F6C310402	GAMMA	Potassium 40	11.3	1.8	0.7	PCI/G	=	
SU5-41D-014	F6C310402	GAMMA	Protactinium 231	-0.17	0.9	1.6	PCI/G	UJ	T06, N02
SU5-41D-014	F6C310402	GAMMA	Radium (226)	0.93	0.17	0.14	PCI/G	J	T15
SU5-41D-014	F6C310402	GAMMA	Thorium 229	0.06	0.46	0.81	PCI/G	UJ	T06, N02
SU5-41D-014	F6C310402	GAMMA	Uranium 235	-0.36	0.45	0.74	PCI/G	UJ	T06
SU5-41D-014	F6C310402	GAMMA	Uranium 238	0.77	0.76	1.4	PCI/G	U	T05
SU5-41D-015	F6C310402	EML A-01-R	Plutonium-238	17.1	2.1	0.09	PCI/G	=	
SU5-41D-015	F6C310402	EML A-01-R	Plutonium-239/240	0.157	0.082	0.042	PCI/G	J	J01, T04
SU5-41D-015	F6C310402	EML A-01-R	Thorium-228	0.67	0.18	0.06	PCI/G	=	
SU5-41D-015	F6C310402	EML A-01-R	Thorium-230	0.96	0.22	0.05	PCI/G	=	
SU5-41D-015	F6C310402	EML A-01-R	Thorium-232	0.57	0.16	0.03	PCI/G	=	
SU5-41D-015	F6C310402	GAMMA	Actinium 227	0.62	0.36	0.61	PCI/G	J	T04
SU5-41D-015	F6C310402	GAMMA	Actinium 228	1.05	0.38	0.37	PCI/G	J	J01
SU5-41D-015	F6C310402	GAMMA	Americium 241	-0.115	0.098	0.16	PCI/G	UJ	T06, N02
SU5-41D-015	F6C310402	GAMMA	Bismuth 214	0.56	0.23	0.38	PCI/G	=	
SU5-41D-015	F6C310402	GAMMA	Bismuth-207	0.006	0.047	0.087	PCI/G	UJ	T06
SU5-41D-015	F6C310402	GAMMA	Bismuth-210M	-0.007	0.067	0.12	PCI/G	UJ	T06, N02
SU5-41D-015	F6C310402	GAMMA	Cesium 137	0.062	0.062	0.13	PCI/G	U	T05
SU5-41D-015	F6C310402	GAMMA	Cobalt 60	-0.014	0.058	0.11	PCI/G	UJ	T06, N02
SU5-41D-015	F6C310402	GAMMA	Lead 210	3.3	1.2	1.5	PCI/G	=	
SU5-41D-015	F6C310402	GAMMA	Lead 212	0.49	0.1	0.14	PCI/G	=	
SU5-41D-015	F6C310402	GAMMA	Potassium 40	11.7	2.6	1.3	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-015	F6C310402	GAMMA	Protactinium 231	-0.5	1.2	2	PCI/G	UJ	T06, N02
SU5-41D-015	F6C310402	GAMMA	Radium (226)	0.56	0.23	0.38	PCI/G	J	T15
SU5-41D-015	F6C310402	GAMMA	Thorium 229	-0.71	0.62	0.98	PCI/G	UJ	T06, N02
SU5-41D-015	F6C310402	GAMMA	Uranium 235	-0.36	0.65	1.1	PCI/G	UJ	T06
SU5-41D-015	F6C310402	GAMMA	Uranium 238	-0.19	0.9	1.6	PCI/G	UJ	T06
SU5-41D-016	F6C310402	EML A-01-R	Plutonium-238	15.1	2	0.05	PCI/G	=	
SU5-41D-016	F6C310402	EML A-01-R	Plutonium-239/240	0.24	0.11	0.05	PCI/G	J	J01
SU5-41D-016	F6C310402	EML A-01-R	Thorium-228	0.41	0.13	0.06	PCI/G	=	
SU5-41D-016	F6C310402	EML A-01-R	Thorium-230	0.66	0.17	0.02	PCI/G	=	
SU5-41D-016	F6C310402	EML A-01-R	Thorium-232	0.28	0.1	0.02	PCI/G	=	
SU5-41D-016	F6C310402	GAMMA	Actinium 227	0.17	0.17	0.3	PCI/G	U	T05, N02
SU5-41D-016	F6C310402	GAMMA	Actinium 228	0.14	0.14	0.21	PCI/G	UJ	J01, T05
SU5-41D-016	F6C310402	GAMMA	Americium 241	0.024	0.062	0.11	PCI/G	UJ	T06, N02
SU5-41D-016	F6C310402	GAMMA	Bismuth 214	0.43	0.13	0.24	PCI/G	=	
SU5-41D-016	F6C310402	GAMMA	Bismuth-207	-0.003	0.026	0.048	PCI/G	UJ	T06
SU5-41D-016	F6C310402	GAMMA	Bismuth-210M	0.017	0.033	0.063	PCI/G	UJ	T06
SU5-41D-016	F6C310402	GAMMA	Cesium 137	0.022	0.034	0.067	PCI/G	UJ	T06
SU5-41D-016	F6C310402	GAMMA	Cobalt 60	0.004	0.027	0.059	PCI/G	UJ	T06
SU5-41D-016	F6C310402	GAMMA	Lead 210	0.54	0.72	1.4	PCI/G	UJ	T06, N02
SU5-41D-016	F6C310402	GAMMA	Lead 212	0.178	0.068	0.1	PCI/G	=	
SU5-41D-016	F6C310402	GAMMA	Potassium 40	5.3	1	0.4	PCI/G	=	
SU5-41D-016	F6C310402	GAMMA	Protactinium 231	-0.34	0.62	1	PCI/G	UJ	T06, N02
SU5-41D-016	F6C310402	GAMMA	Radium (226)	0.43	0.13	0.24	PCI/G	J	T15
SU5-41D-016	F6C310402	GAMMA	Thorium 229	0.01	0.35	0.62	PCI/G	UJ	T06, N02
SU5-41D-016	F6C310402	GAMMA	Uranium 235	-0.18	0.38	0.54	PCI/G	UJ	T06
SU5-41D-016	F6C310402	GAMMA	Uranium 238	-0.03	0.58	1	PCI/G	UJ	T06
SU5-41D-017A	F6D080172	EML A-01-R	Plutonium-238	28.5	3.5	0.08	PCI/G	=	
SU5-41D-017A	F6D080172	EML A-01-R	Plutonium-239/240	0.4	0.14	0.03	PCI/G	=	
SU5-41D-017A	F6D080172	EML A-01-R	Thorium-228	0.62	0.17	0.05	PCI/G	=	
SU5-41D-017A	F6D080172	EML A-01-R	Thorium-230	0.87	0.21	0.04	PCI/G	=	
SU5-41D-017A	F6D080172	EML A-01-R	Thorium-232	0.53	0.15	0.04	PCI/G	=	
SU5-41D-017A	F6D080172	GAMMA	Actinium 227	0.2	0.21	0.36	PCI/G	UJ	T06, N02
SU5-41D-017A	F6D080172	GAMMA	Actinium 228	0.64	0.29	0.25	PCI/G	=	
SU5-41D-017A	F6D080172	GAMMA	Americium 241	0.078	0.082	0.15	PCI/G	UJ	T06, N02
SU5-41D-017A	F6D080172	GAMMA	Bismuth 214	0.71	0.18	0.32	PCI/G	=	
SU5-41D-017A	F6D080172	GAMMA	Bismuth-207	0.009	0.03	0.058	PCI/G	UJ	T06
SU5-41D-017A	F6D080172	GAMMA	Bismuth-210M	0.006	0.045	0.082	PCI/G	UJ	T06
SU5-41D-017A	F6D080172	GAMMA	Cesium 137	-0.0005	0.053	0.1	PCI/G	UJ	T06
SU5-41D-017A	F6D080172	GAMMA	Cobalt 60	0.06	0.054	0.12	PCI/G	U	T05, N02
SU5-41D-017A	F6D080172	GAMMA	Lead 210	1.44	0.98	1.9	PCI/G	U	T05, N02
SU5-41D-017A	F6D080172	GAMMA	Lead 212	0.69	0.11	0.11	PCI/G	=	
SU5-41D-017A	F6D080172	GAMMA	Potassium 40	12.2	1.8	0.5	PCI/G	=	
SU5-41D-017A	F6D080172	GAMMA	Protactinium 231	0.32	0.77	1.5	PCI/G	UJ	T06, N02
SU5-41D-017A	F6D080172	GAMMA	Radium (226)	0.71	0.18	0.32	PCI/G	J	T15
SU5-41D-017A	F6D080172	GAMMA	Thorium 229	0.02	0.44	0.79	PCI/G	UJ	T06, N02
SU5-41D-017A	F6D080172	GAMMA	Uranium 235	-0.22	0.41	0.69	PCI/G	UJ	T06
SU5-41D-017A	F6D080172	GAMMA	Uranium 238	0.62	0.74	1.4	PCI/G	UJ	T06
SU5-41D-018	F6C310402	EML A-01-R	Plutonium-238	36	4.1	0.07	PCI/G	=	
SU5-41D-018	F6C310402	EML A-01-R	Plutonium-239/240	0.34	0.12	0.02	PCI/G	J	J01
SU5-41D-018	F6C310402	EML A-01-R	Thorium-228	0.31	0.13	0.07	PCI/G	=	
SU5-41D-018	F6C310402	EML A-01-R	Thorium-230	0.48	0.15	0.05	PCI/G	=	
SU5-41D-018	F6C310402	EML A-01-R	Thorium-232	0.34	0.13	0.04	PCI/G	=	
SU5-41D-018	F6C310402	GAMMA	Actinium 227	0.05	0.14	0.22	PCI/G	UJ	T06, N02
SU5-41D-018	F6C310402	GAMMA	Actinium 228	0.16	0.12	0.25	PCI/G	UJ	J01, T05

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-018	F6C310402	GAMMA	Americium 241	0.09	0.053	0.1	PCI/G	U	T05
SU5-41D-018	F6C310402	GAMMA	Bismuth 214	0.53	0.11	0.22	PCI/G	=	
SU5-41D-018	F6C310402	GAMMA	Bismuth-207	0.005	0.018	0.035	PCI/G	UJ	T06
SU5-41D-018	F6C310402	GAMMA	Bismuth-210M	-0.004	0.026	0.047	PCI/G	UJ	T06
SU5-41D-018	F6C310402	GAMMA	Cesium 137	0.01	0.033	0.067	PCI/G	UJ	T06
SU5-41D-018	F6C310402	GAMMA	Cobalt 60	0.0009	0.028	0.06	PCI/G	UJ	T06
SU5-41D-018	F6C310402	GAMMA	Lead 210	-0.07	0.56	1	PCI/G	UJ	T06, N02
SU5-41D-018	F6C310402	GAMMA	Lead 212	0.237	0.051	0.064	PCI/G	=	
SU5-41D-018	F6C310402	GAMMA	Potassium 40	5.16	0.95	0.46	PCI/G	=	
SU5-41D-018	F6C310402	GAMMA	Protactinium 231	-0.2	0.43	0.74	PCI/G	UJ	T06, N02
SU5-41D-018	F6C310402	GAMMA	Radium (226)	0.53	0.11	0.22	PCI/G	J	T15
SU5-41D-018	F6C310402	GAMMA	Thorium 229	-0.07	0.27	0.48	PCI/G	UJ	T06, N02
SU5-41D-018	F6C310402	GAMMA	Uranium 235	0.27	0.28	0.53	PCI/G	UJ	T06
SU5-41D-018	F6C310402	GAMMA	Uranium 238	0.51	0.45	0.87	PCI/G	U	T05
SU5-41D-019	F6C310402	EML A-01-R	Plutonium-238	8.7	1.1	0.06	PCI/G	=	
SU5-41D-019	F6C310402	EML A-01-R	Plutonium-239/240	0.113	0.065	0.038	PCI/G	J	J01, T04
SU5-41D-019	F6C310402	EML A-01-R	Thorium-228	0.34	0.21	0.18	PCI/G	J	T04
SU5-41D-019	F6C310402	EML A-01-R	Thorium-230	0.63	0.28	0.14	PCI/G	J	F01
SU5-41D-019	F6C310402	EML A-01-R	Thorium-232	0.43	0.22	0.06	PCI/G	J	T04
SU5-41D-019	F6C310402	GAMMA	Actinium 227	0.06	0.18	0.28	PCI/G	UJ	T06, N02
SU5-41D-019	F6C310402	GAMMA	Actinium 228	0.38	0.17	0.17	PCI/G	J	J01
SU5-41D-019	F6C310402	GAMMA	Americium 241	0.071	0.065	0.12	PCI/G	U	T05, N02
SU5-41D-019	F6C310402	GAMMA	Bismuth 214	0.42	0.12	0.24	PCI/G	=	
SU5-41D-019	F6C310402	GAMMA	Bismuth-207	-0.008	0.027	0.048	PCI/G	UJ	T06
SU5-41D-019	F6C310402	GAMMA	Bismuth-210M	-0.022	0.036	0.061	PCI/G	UJ	T06
SU5-41D-019	F6C310402	GAMMA	Cesium 137	0.013	0.029	0.061	PCI/G	UJ	T06
SU5-41D-019	F6C310402	GAMMA	Cobalt 60	0.02	0.038	0.082	PCI/G	UJ	T06
SU5-41D-019	F6C310402	GAMMA	Lead 210	0.12	0.76	1.5	PCI/G	UJ	T06, N02
SU5-41D-019	F6C310402	GAMMA	Lead 212	0.294	0.089	0.08	PCI/G	=	
SU5-41D-019	F6C310402	GAMMA	Potassium 40	6.9	1.2	0.4	PCI/G	=	
SU5-41D-019	F6C310402	GAMMA	Protactinium 231	0.18	0.73	1.3	PCI/G	UJ	T06, N02
SU5-41D-019	F6C310402	GAMMA	Radium (226)	0.42	0.12	0.24	PCI/G	J	T15
SU5-41D-019	F6C310402	GAMMA	Thorium 229	-0.28	0.36	0.59	PCI/G	UJ	T06, N02
SU5-41D-019	F6C310402	GAMMA	Uranium 235	0.19	0.37	0.69	PCI/G	UJ	T06
SU5-41D-019	F6C310402	GAMMA	Uranium 238	0.32	0.67	1.2	PCI/G	UJ	T06
SU5-41D-020	F6C310402	EML A-01-R	Plutonium-238	27.1	3.3	0.09	PCI/G	=	
SU5-41D-020	F6C310402	EML A-01-R	Plutonium-239/240	0.24	0.1	0.04	PCI/G	J	J01
SU5-41D-020	F6C310402	EML A-01-R	Thorium-228	0.59	0.17	0.05	PCI/G	=	
SU5-41D-020	F6C310402	EML A-01-R	Thorium-230	0.96	0.23	0.08	PCI/G	=	
SU5-41D-020	F6C310402	EML A-01-R	Thorium-232	0.81	0.2	0.05	PCI/G	=	
SU5-41D-020	F6C310402	GAMMA	Actinium 227	0.97	0.33	0.59	PCI/G	=	
SU5-41D-020	F6C310402	GAMMA	Actinium 228	0.64	0.39	0.33	PCI/G	J	J01, T04
SU5-41D-020	F6C310402	GAMMA	Americium 241	0.114	0.069	0.16	PCI/G	U	T05, N02
SU5-41D-020	F6C310402	GAMMA	Bismuth 214	0.83	0.2	0.36	PCI/G	=	
SU5-41D-020	F6C310402	GAMMA	Bismuth-207	0.015	0.038	0.072	PCI/G	UJ	T06
SU5-41D-020	F6C310402	GAMMA	Bismuth-210M	-0.047	0.063	0.11	PCI/G	UJ	T06, N02
SU5-41D-020	F6C310402	GAMMA	Cesium 137	0.016	0.059	0.11	PCI/G	UJ	T06
SU5-41D-020	F6C310402	GAMMA	Cobalt 60	-0.011	0.051	0.094	PCI/G	UJ	T06
SU5-41D-020	F6C310402	GAMMA	Lead 210	2.5	1.4	2.1	PCI/G	J	T04
SU5-41D-020	F6C310402	GAMMA	Lead 212	0.77	0.12	0.11	PCI/G	=	
SU5-41D-020	F6C310402	GAMMA	Potassium 40	12.5	2.1	0.9	PCI/G	=	
SU5-41D-020	F6C310402	GAMMA	Protactinium 231	0.4	1.1	1.9	PCI/G	UJ	T06, N02
SU5-41D-020	F6C310402	GAMMA	Radium (226)	0.83	0.2	0.36	PCI/G	J	T15
SU5-41D-020	F6C310402	GAMMA	Thorium 229	-0.49	0.6	0.99	PCI/G	UJ	T06, N02

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-020	F6C310402	GAMMA	Uranium 235	-0.29	0.69	0.95	PCI/G	UJ	T06
SU5-41D-020	F6C310402	GAMMA	Uranium 238	0.9	1.2	1.9	PCI/G	UJ	T06
SU5-41D-021	F6C310402	EML A-01-R	Plutonium-238	46.8	5.7	0.07	PCI/G	=	
SU5-41D-021	F6C310402	EML A-01-R	Plutonium-239/240	0.73	0.2	0.05	PCI/G	J	J01
SU5-41D-021	F6C310402	EML A-01-R	Thorium-228	0.85	0.21	0.07	PCI/G	=	
SU5-41D-021	F6C310402	EML A-01-R	Thorium-230	1.49	0.3	0.03	PCI/G	=	
SU5-41D-021	F6C310402	EML A-01-R	Thorium-232	0.82	0.21	0.04	PCI/G	=	
SU5-41D-021	F6C310402	GAMMA	Actinium 227	0.29	0.31	0.51	PCI/G	UJ	T06, N02
SU5-41D-021	F6C310402	GAMMA	Actinium 228	0.89	0.34	0.33	PCI/G	J	J01
SU5-41D-021	F6C310402	GAMMA	Americium 241	0.45	0.22	0.21	PCI/G	=	
SU5-41D-021	F6C310402	GAMMA	Bismuth 214	0.95	0.2	0.4	PCI/G	=	
SU5-41D-021	F6C310402	GAMMA	Bismuth-207	0.001	0.045	0.081	PCI/G	UJ	T06
SU5-41D-021	F6C310402	GAMMA	Bismuth-210M	-0.103	0.066	0.1	PCI/G	UJ	T06
SU5-41D-021	F6C310402	GAMMA	Cesium 137	0.07	0.079	0.15	PCI/G	UJ	T06
SU5-41D-021	F6C310402	GAMMA	Cobalt 60	0.004	0.041	0.088	PCI/G	UJ	T06
SU5-41D-021	F6C310402	GAMMA	Lead 210	1.2	1.4	2.6	PCI/G	UJ	T06, N02
SU5-41D-021	F6C310402	GAMMA	Lead 212	0.8	0.16	0.17	PCI/G	=	
SU5-41D-021	F6C310402	GAMMA	Potassium 40	20	2.7	0.9	PCI/G	=	
SU5-41D-021	F6C310402	GAMMA	Protactinium 231	-0.5	1.2	2.1	PCI/G	UJ	T06, N02
SU5-41D-021	F6C310402	GAMMA	Radium (226)	0.95	0.2	0.4	PCI/G	J	T15
SU5-41D-021	F6C310402	GAMMA	Thorium 229	-0.07	0.63	1.1	PCI/G	UJ	T06, N02
SU5-41D-021	F6C310402	GAMMA	Uranium 235	-0.3	0.64	1.1	PCI/G	UJ	T06
SU5-41D-021	F6C310402	GAMMA	Uranium 238	-0.05	1.2	1.9	PCI/G	UJ	T06
SU5-41D-022	F6C310404	EML A-01-R	Plutonium-238	24.5	2.9	0.06	PCI/G	=	
SU5-41D-022	F6C310404	EML A-01-R	Plutonium-239/240	0.165	0.082	0.046	PCI/G	=	
SU5-41D-022	F6C310404	EML A-01-R	Thorium-228	0.6	0.16	0.06	PCI/G	=	
SU5-41D-022	F6C310404	EML A-01-R	Thorium-230	0.83	0.2	0.03	PCI/G	=	
SU5-41D-022	F6C310404	EML A-01-R	Thorium-232	0.85	0.2	0.05	PCI/G	=	
SU5-41D-022	F6C310404	GAMMA	Actinium 227	0.28	0.27	0.45	PCI/G	U	T05, N02
SU5-41D-022	F6C310404	GAMMA	Actinium 228	0.54	0.25	0.51	PCI/G	=	
SU5-41D-022	F6C310404	GAMMA	Americium 241	0.066	0.098	0.18	PCI/G	UJ	T06, N02
SU5-41D-022	F6C310404	GAMMA	Bismuth 214	0.61	0.17	0.14	PCI/G	=	
SU5-41D-022	F6C310404	GAMMA	Bismuth-207	-0.036	0.041	0.067	PCI/G	UJ	T06
SU5-41D-022	F6C310404	GAMMA	Bismuth-210M	-0.0005	0.06	0.11	PCI/G	UJ	T06, N02
SU5-41D-022	F6C310404	GAMMA	Cesium 137	0.05	0.062	0.12	PCI/G	UJ	T06
SU5-41D-022	F6C310404	GAMMA	Cobalt 60	0.023	0.045	0.1	PCI/G	UJ	T06
SU5-41D-022	F6C310404	GAMMA	Lead 210	1.5	1.1	1.9	PCI/G	U	T05, N02
SU5-41D-022	F6C310404	GAMMA	Lead 212	0.57	0.14	0.15	PCI/G	=	
SU5-41D-022	F6C310404	GAMMA	Potassium 40	15	2.2	0.9	PCI/G	=	
SU5-41D-022	F6C310404	GAMMA	Protactinium 231	0.2	1.3	2	PCI/G	UJ	T06, N02
SU5-41D-022	F6C310404	GAMMA	Radium (226)	0.61	0.17	0.14	PCI/G	J	T15
SU5-41D-022	F6C310404	GAMMA	Thorium 229	-0.33	0.53	0.91	PCI/G	UJ	T06, N02
SU5-41D-022	F6C310404	GAMMA	Uranium 235	-0.19	0.54	0.92	PCI/G	UJ	T06
SU5-41D-022	F6C310404	GAMMA	Uranium 238	0.74	0.9	1.7	PCI/G	UJ	T06
SU5-41D-023	F6C310404	EML A-01-R	Plutonium-238	0.45	0.15	0.1	PCI/G	=	
SU5-41D-023	F6C310404	EML A-01-R	Plutonium-239/240	0.01	0.032	0.058	PCI/G	UJ	T06
SU5-41D-023	F6C310404	EML A-01-R	Thorium-228	0.8	0.2	0.07	PCI/G	=	
SU5-41D-023	F6C310404	EML A-01-R	Thorium-230	1.69	0.32	0.05	PCI/G	=	
SU5-41D-023	F6C310404	EML A-01-R	Thorium-232	0.81	0.2	0.03	PCI/G	=	
SU5-41D-023	F6C310404	GAMMA	Actinium 227	-0.05	0.25	0.36	PCI/G	UJ	T06, N02
SU5-41D-023	F6C310404	GAMMA	Actinium 228	0.74	0.34	0.33	PCI/G	=	
SU5-41D-023	F6C310404	GAMMA	Americium 241	0.028	0.086	0.15	PCI/G	UJ	T06, N02
SU5-41D-023	F6C310404	GAMMA	Bismuth 214	1.7	0.26	0.13	PCI/G	=	
SU5-41D-023	F6C310404	GAMMA	Bismuth-207	-0.003	0.039	0.068	PCI/G	UJ	T06

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-023	F6C310404	GAMMA	Bismuth-210M	-0.012	0.047	0.082	PCI/G	UJ	T06
SU5-41D-023	F6C310404	GAMMA	Cesium 137	-0.054	0.053	0.091	PCI/G	UJ	T06
SU5-41D-023	F6C310404	GAMMA	Cobalt 60	0.014	0.052	0.1	PCI/G	UJ	T06
SU5-41D-023	F6C310404	GAMMA	Lead 210	1.2	1.1	2	PCI/G	U	T05, N02
SU5-41D-023	F6C310404	GAMMA	Lead 212	0.95	0.13	0.1	PCI/G	=	
SU5-41D-023	F6C310404	GAMMA	Potassium 40	16.1	2.1	0.7	PCI/G	=	
SU5-41D-023	F6C310404	GAMMA	Protactinium 231	-0.65	0.92	1.5	PCI/G	UJ	T06, N02
SU5-41D-023	F6C310404	GAMMA	Radium (226)	1.7	0.26	0.13	PCI/G	J	T15
SU5-41D-023	F6C310404	GAMMA	Thorium 229	-0.16	0.5	0.85	PCI/G	UJ	T06, N02
SU5-41D-023	F6C310404	GAMMA	Uranium 235	0.66	0.48	0.88	PCI/G	U	T05
SU5-41D-023	F6C310404	GAMMA	Uranium 238	0.81	0.86	1.6	PCI/G	UJ	T06
SU5-41D-024	F6C310404	EML A-01-R	Plutonium-238	0.126	0.091	0.098	PCI/G	J	T04
SU5-41D-024	F6C310404	EML A-01-R	Plutonium-239/240	-0.004	0.023	0.048	PCI/G	UJ	T06
SU5-41D-024	F6C310404	EML A-01-R	Thorium-228	0.83	0.21	0.07	PCI/G	=	
SU5-41D-024	F6C310404	EML A-01-R	Thorium-230	2.01	0.36	0.03	PCI/G	=	
SU5-41D-024	F6C310404	EML A-01-R	Thorium-232	0.69	0.18	0.03	PCI/G	=	
SU5-41D-024	F6C310404	GAMMA	Actinium 227	0.1	0.28	0.44	PCI/G	UJ	T06, N02
SU5-41D-024	F6C310404	GAMMA	Actinium 228	0.96	0.37	0.36	PCI/G	=	
SU5-41D-024	F6C310404	GAMMA	Americium 241	0.004	0.11	0.19	PCI/G	UJ	T06, N02
SU5-41D-024	F6C310404	GAMMA	Bismuth 214	1.32	0.25	0.17	PCI/G	=	
SU5-41D-024	F6C310404	GAMMA	Bismuth-207	-0.013	0.043	0.074	PCI/G	UJ	T06
SU5-41D-024	F6C310404	GAMMA	Bismuth-210M	-0.049	0.062	0.1	PCI/G	UJ	T06
SU5-41D-024	F6C310404	GAMMA	Cesium 137	-0.006	0.059	0.11	PCI/G	UJ	T06
SU5-41D-024	F6C310404	GAMMA	Cobalt 60	-0.008	0.048	0.091	PCI/G	UJ	T06
SU5-41D-024	F6C310404	GAMMA	Lead 210	0.9	1.5	2.7	PCI/G	UJ	T06, N02
SU5-41D-024	F6C310404	GAMMA	Lead 212	0.95	0.15	0.13	PCI/G	=	
SU5-41D-024	F6C310404	GAMMA	Potassium 40	17.3	2.3	0.7	PCI/G	=	
SU5-41D-024	F6C310404	GAMMA	Protactinium 231	-1.3	1.2	1.9	PCI/G	UJ	T06, N02
SU5-41D-024	F6C310404	GAMMA	Radium (226)	1.32	0.25	0.17	PCI/G	J	T15
SU5-41D-024	F6C310404	GAMMA	Thorium 229	-0.2	0.65	1.1	PCI/G	UJ	T06, N02
SU5-41D-024	F6C310404	GAMMA	Uranium 235	0.27	0.6	1.1	PCI/G	UJ	T06
SU5-41D-024	F6C310404	GAMMA	Uranium 238	1.6	1.3	2	PCI/G	U	T05
SU5-41D-025	F6C310404	EML A-01-R	Plutonium-238	0.116	0.079	0.08	PCI/G	J	T04
SU5-41D-025	F6C310404	EML A-01-R	Plutonium-239/240	-0.01	0.026	0.058	PCI/G	UJ	T06
SU5-41D-025	F6C310404	EML A-01-R	Thorium-228	0.97	0.21	0.06	PCI/G	=	
SU5-41D-025	F6C310404	EML A-01-R	Thorium-230	0.76	0.18	0.04	PCI/G	=	
SU5-41D-025	F6C310404	EML A-01-R	Thorium-232	0.81	0.19	0.02	PCI/G	=	
SU5-41D-025	F6C310404	GAMMA	Actinium 227	1.43	0.38	0.65	PCI/G	=	
SU5-41D-025	F6C310404	GAMMA	Actinium 228	1.01	0.41	0.3	PCI/G	=	
SU5-41D-025	F6C310404	GAMMA	Americium 241	-0.09	0.12	0.19	PCI/G	UJ	T06, N02
SU5-41D-025	F6C310404	GAMMA	Bismuth 214	0.61	0.21	0.19	PCI/G	=	
SU5-41D-025	F6C310404	GAMMA	Bismuth-207	-0.019	0.045	0.076	PCI/G	UJ	T06
SU5-41D-025	F6C310404	GAMMA	Bismuth-210M	-0.011	0.066	0.096	PCI/G	UJ	T06
SU5-41D-025	F6C310404	GAMMA	Cesium 137	-0.023	0.057	0.098	PCI/G	UJ	T06
SU5-41D-025	F6C310404	GAMMA	Cobalt 60	0.026	0.053	0.11	PCI/G	UJ	T06, N02
SU5-41D-025	F6C310404	GAMMA	Lead 210	0.01	1.3	2.4	PCI/G	UJ	T06, N02
SU5-41D-025	F6C310404	GAMMA	Lead 212	0.93	0.17	0.15	PCI/G	=	
SU5-41D-025	F6C310404	GAMMA	Potassium 40	29	3.2	0.8	PCI/G	=	
SU5-41D-025	F6C310404	GAMMA	Protactinium 231	1.3	1.2	2	PCI/G	U	T05, N02
SU5-41D-025	F6C310404	GAMMA	Radium (226)	0.61	0.21	0.19	PCI/G	J	T15
SU5-41D-025	F6C310404	GAMMA	Thorium 229	0.05	0.62	1.1	PCI/G	UJ	T06, N02
SU5-41D-025	F6C310404	GAMMA	Uranium 235	-0.26	0.66	0.92	PCI/G	UJ	T06
SU5-41D-025	F6C310404	GAMMA	Uranium 238	0.6	1	1.9	PCI/G	UJ	T06
SU5-41D-026	F6C310404	EML A-01-R	Plutonium-238	24.1	2.9	0.08	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-026	F6C310404	EML A-01-R	Plutonium-239/240	0.138	0.076	0.046	PCI/G	J	T04
SU5-41D-026	F6C310404	EML A-01-R	Thorium-228	0.91	0.22	0.07	PCI/G	=	
SU5-41D-026	F6C310404	EML A-01-R	Thorium-230	1.14	0.25	0.05	PCI/G	=	
SU5-41D-026	F6C310404	EML A-01-R	Thorium-232	0.92	0.22	0.03	PCI/G	=	
SU5-41D-026	F6C310404	GAMMA	Actinium 227	0.22	0.28	0.46	PCI/G	UJ	T06, N02
SU5-41D-026	F6C310404	GAMMA	Actinium 228	0.71	0.32	0.3	PCI/G	=	
SU5-41D-026	F6C310404	GAMMA	Americium 241	0.16	0.12	0.2	PCI/G	U	T05, N02
SU5-41D-026	F6C310404	GAMMA	Bismuth 214	0.84	0.17	0.17	PCI/G	=	
SU5-41D-026	F6C310404	GAMMA	Bismuth-207	0.015	0.042	0.078	PCI/G	UJ	T06
SU5-41D-026	F6C310404	GAMMA	Bismuth-210M	-0.063	0.058	0.092	PCI/G	UJ	T06
SU5-41D-026	F6C310404	GAMMA	Cesium 137	0.037	0.062	0.12	PCI/G	UJ	T06
SU5-41D-026	F6C310404	GAMMA	Cobalt 60	0.008	0.062	0.12	PCI/G	UJ	T06, N02
SU5-41D-026	F6C310404	GAMMA	Lead 210	0.6	1.4	2.4	PCI/G	UJ	T06, N02
SU5-41D-026	F6C310404	GAMMA	Lead 212	0.67	0.16	0.16	PCI/G	=	
SU5-41D-026	F6C310404	GAMMA	Potassium 40	19.2	2.5	1	PCI/G	=	
SU5-41D-026	F6C310404	GAMMA	Protactinium 231	-1.7	1.2	1.8	PCI/G	UJ	T06, N02
SU5-41D-026	F6C310404	GAMMA	Radium (226)	0.84	0.17	0.17	PCI/G	J	T15
SU5-41D-026	F6C310404	GAMMA	Thorium 229	-0.1	0.57	1	PCI/G	UJ	T06, N02
SU5-41D-026	F6C310404	GAMMA	Uranium 235	0.51	0.55	1	PCI/G	UJ	T06
SU5-41D-026	F6C310404	GAMMA	Uranium 238	1.6	1.4	1.7	PCI/G	U	T05
SU5-41D-027	F6C310404	EML A-01-R	Plutonium-238	24.1	2.8	0.09	PCI/G	=	
SU5-41D-027	F6C310404	EML A-01-R	Plutonium-239/240	0.165	0.09	0.075	PCI/G	J	T04
SU5-41D-027	F6C310404	EML A-01-R	Thorium-228	0.47	0.15	0.07	PCI/G	=	
SU5-41D-027	F6C310404	EML A-01-R	Thorium-230	0.82	0.2	0.03	PCI/G	=	
SU5-41D-027	F6C310404	EML A-01-R	Thorium-232	0.36	0.13	0.03	PCI/G	=	
SU5-41D-027	F6C310404	GAMMA	Actinium 227	-0.12	0.2	0.28	PCI/G	UJ	T06, N02
SU5-41D-027	F6C310404	GAMMA	Actinium 228	0.31	0.18	0.36	PCI/G	U	T05
SU5-41D-027	F6C310404	GAMMA	Americium 241	0.112	0.071	0.14	PCI/G	U	T05, N02
SU5-41D-027	F6C310404	GAMMA	Bismuth 214	0.48	0.14	0.11	PCI/G	=	
SU5-41D-027	F6C310404	GAMMA	Bismuth-207	0.01	0.025	0.049	PCI/G	UJ	T06
SU5-41D-027	F6C310404	GAMMA	Bismuth-210M	-0.002	0.039	0.07	PCI/G	UJ	T06
SU5-41D-027	F6C310404	GAMMA	Cesium 137	0.044	0.048	0.098	PCI/G	UJ	T06
SU5-41D-027	F6C310404	GAMMA	Cobalt 60	-0.019	0.03	0.057	PCI/G	UJ	T06
SU5-41D-027	F6C310404	GAMMA	Lead 210	1.07	0.81	1.6	PCI/G	U	T05, N02
SU5-41D-027	F6C310404	GAMMA	Lead 212	0.36	0.092	0.1	PCI/G	=	
SU5-41D-027	F6C310404	GAMMA	Potassium 40	10.6	1.5	0.5	PCI/G	=	
SU5-41D-027	F6C310404	GAMMA	Protactinium 231	-0.22	0.74	1.3	PCI/G	UJ	T06, N02
SU5-41D-027	F6C310404	GAMMA	Radium (226)	0.48	0.14	0.11	PCI/G	J	T15
SU5-41D-027	F6C310404	GAMMA	Thorium 229	-0.41	0.39	0.63	PCI/G	UJ	T06, N02
SU5-41D-027	F6C310404	GAMMA	Uranium 235	-0.03	0.4	0.64	PCI/G	UJ	T06
SU5-41D-027	F6C310404	GAMMA	Uranium 238	1.04	0.64	1.3	PCI/G	U	T05
SU5-41D-028A	F6D080172	EML A-01-R	Plutonium-238	33.9	4.1	0.07	PCI/G	=	
SU5-41D-028A	F6D080172	EML A-01-R	Plutonium-239/240	0.57	0.17	0.04	PCI/G	=	
SU5-41D-028A	F6D080172	EML A-01-R	Thorium-228	1.81	0.33	0.08	PCI/G	=	
SU5-41D-028A	F6D080172	EML A-01-R	Thorium-230	2.43	0.41	0.05	PCI/G	=	
SU5-41D-028A	F6D080172	EML A-01-R	Thorium-232	1.5	0.29	0.04	PCI/G	=	
SU5-41D-028A	F6D080172	GAMMA	Actinium 227	0.04	0.35	0.53	PCI/G	UJ	T06, N02
SU5-41D-028A	F6D080172	GAMMA	Actinium 228	1.78	0.53	0.38	PCI/G	=	
SU5-41D-028A	F6D080172	GAMMA	Americium 241	0.11	0.14	0.22	PCI/G	UJ	T06, N02
SU5-41D-028A	F6D080172	GAMMA	Bismuth 214	0.84	0.22	0.21	PCI/G	=	
SU5-41D-028A	F6D080172	GAMMA	Bismuth-207	0.032	0.049	0.095	PCI/G	UJ	T06
SU5-41D-028A	F6D080172	GAMMA	Bismuth-210M	-0.097	0.074	0.12	PCI/G	UJ	T06, N02
SU5-41D-028A	F6D080172	GAMMA	Cesium 137	0.366	0.099	0.13	PCI/G	=	
SU5-41D-028A	F6D080172	GAMMA	Cobalt 60	0.012	0.051	0.11	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-028A	F6D080172	GAMMA	Lead 210	1	1.4	2.7	PCI/G	UJ	T06, N02
SU5-41D-028A	F6D080172	GAMMA	Lead 212	1.29	0.23	0.2	PCI/G	=	
SU5-41D-028A	F6D080172	GAMMA	Potassium 40	12.9	2	1.2	PCI/G	=	
SU5-41D-028A	F6D080172	GAMMA	Protactinium 231	-0.8	1.7	2.3	PCI/G	UJ	T06, N02
SU5-41D-028A	F6D080172	GAMMA	Radium (226)	0.84	0.22	0.21	PCI/G	J	T15
SU5-41D-028A	F6D080172	GAMMA	Thorium 229	0.09	0.7	1.2	PCI/G	UJ	T06, N02
SU5-41D-028A	F6D080172	GAMMA	Uranium 235	-0.07	0.65	1.1	PCI/G	UJ	T06
SU5-41D-028A	F6D080172	GAMMA	Uranium 238	2.1	1.3	2.4	PCI/G	U	T05
SU5-41D-029A	F6D080172	EML A-01-R	Plutonium-238	13.6	1.7	0.07	PCI/G	=	
SU5-41D-029A	F6D080172	EML A-01-R	Plutonium-239/240	0.169	0.083	0.04	PCI/G	=	
SU5-41D-029A	F6D080172	EML A-01-R	Thorium-228	0.46	0.17	0.11	PCI/G	=	
SU5-41D-029A	F6D080172	EML A-01-R	Thorium-230	0.63	0.19	0.06	PCI/G	=	
SU5-41D-029A	F6D080172	EML A-01-R	Thorium-232	0.42	0.15	0.06	PCI/G	=	
SU5-41D-029A	F6D080172	GAMMA	Actinium 227	0.07	0.14	0.22	PCI/G	UJ	T06, N02
SU5-41D-029A	F6D080172	GAMMA	Actinium 228	0.25	0.13	0.12	PCI/G	J	T04
SU5-41D-029A	F6D080172	GAMMA	Americium 241	0.017	0.044	0.083	PCI/G	UJ	T06
SU5-41D-029A	F6D080172	GAMMA	Bismuth 214	0.3	0.12	0.19	PCI/G	=	
SU5-41D-029A	F6D080172	GAMMA	Bismuth-207	0.022	0.021	0.043	PCI/G	U	T05
SU5-41D-029A	F6D080172	GAMMA	Bismuth-210M	-0.005	0.028	0.05	PCI/G	UJ	T06
SU5-41D-029A	F6D080172	GAMMA	Cesium 137	-0.015	0.027	0.052	PCI/G	UJ	T06
SU5-41D-029A	F6D080172	GAMMA	Cobalt 60	-0.011	0.029	0.055	PCI/G	UJ	T06
SU5-41D-029A	F6D080172	GAMMA	Lead 210	0.7	0.61	1.2	PCI/G	U	T05, N02
SU5-41D-029A	F6D080172	GAMMA	Lead 212	0.213	0.068	0.079	PCI/G	=	
SU5-41D-029A	F6D080172	GAMMA	Potassium 40	5.06	0.99	0.38	PCI/G	=	
SU5-41D-029A	F6D080172	GAMMA	Protactinium 231	-0.28	0.49	0.83	PCI/G	UJ	T06, N02
SU5-41D-029A	F6D080172	GAMMA	Radium (226)	0.3	0.12	0.19	PCI/G	J	T15
SU5-41D-029A	F6D080172	GAMMA	Thorium 229	-0.12	0.28	0.47	PCI/G	UJ	T06, N02
SU5-41D-029A	F6D080172	GAMMA	Uranium 235	-0.08	0.26	0.45	PCI/G	UJ	T06
SU5-41D-029A	F6D080172	GAMMA	Uranium 238	0.01	0.44	0.81	PCI/G	UJ	T06
SU5-41D-030A	F6D080172	EML A-01-R	Plutonium-238	0.08	0.13	0.18	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	EML A-01-R	Plutonium-239/240	0.014	0.051	0.11	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	EML A-01-R	Thorium-228	0.88	0.21	0.08	PCI/G	=	
SU5-41D-030A	F6D080172	EML A-01-R	Thorium-230	1.13	0.24	0.06	PCI/G	=	
SU5-41D-030A	F6D080172	EML A-01-R	Thorium-232	0.89	0.21	0.05	PCI/G	=	
SU5-41D-030A	F6D080172	GAMMA	Actinium 227	0.11	0.32	0.51	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	GAMMA	Actinium 228	0.75	0.35	0.45	PCI/G	=	
SU5-41D-030A	F6D080172	GAMMA	Americium 241	0.06	0.12	0.22	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	GAMMA	Bismuth 214	1.23	0.25	0.19	PCI/G	=	
SU5-41D-030A	F6D080172	GAMMA	Bismuth-207	-0.001	0.05	0.09	PCI/G	UJ	T06
SU5-41D-030A	F6D080172	GAMMA	Bismuth-210M	0.011	0.061	0.11	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	GAMMA	Cesium 137	-0.035	0.057	0.097	PCI/G	UJ	T06
SU5-41D-030A	F6D080172	GAMMA	Cobalt 60	0.009	0.049	0.1	PCI/G	UJ	T06
SU5-41D-030A	F6D080172	GAMMA	Lead 210	1.1	1.3	2.6	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	GAMMA	Lead 212	1.08	0.17	0.14	PCI/G	=	
SU5-41D-030A	F6D080172	GAMMA	Potassium 40	17.7	2.5	1	PCI/G	=	
SU5-41D-030A	F6D080172	GAMMA	Protactinium 231	-0.9	1.2	1.9	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	GAMMA	Radium (226)	1.23	0.25	0.19	PCI/G	J	T15
SU5-41D-030A	F6D080172	GAMMA	Thorium 229	-0.09	0.62	1.1	PCI/G	UJ	T06, N02
SU5-41D-030A	F6D080172	GAMMA	Uranium 235	-0.24	0.6	1	PCI/G	UJ	T06
SU5-41D-030A	F6D080172	GAMMA	Uranium 238	0.6	1.2	2.1	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	EML A-01-R	Plutonium-238	0.062	0.072	0.084	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	EML A-01-R	Plutonium-239/240	0.011	0.04	0.084	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	EML A-01-R	Thorium-228	0.88	0.23	0.11	PCI/G	=	
SU5-41D-030AD	F6D080172	EML A-01-R	Thorium-230	1.55	0.32	0.07	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-030AD	F6D080172	EML A-01-R	Thorium-232	0.92	0.22	0.05	PCI/G	=	
SU5-41D-030AD	F6D080172	GAMMA	Actinium 227	0.88	0.36	0.6	PCI/G	=	
SU5-41D-030AD	F6D080172	GAMMA	Actinium 228	0.79	0.34	0.33	PCI/G	=	
SU5-41D-030AD	F6D080172	GAMMA	Americium 241	-0.07	0.11	0.18	PCI/G	UJ	T06, N02
SU5-41D-030AD	F6D080172	GAMMA	Bismuth 214	1	0.23	0.37	PCI/G	=	
SU5-41D-030AD	F6D080172	GAMMA	Bismuth-207	-0.004	0.042	0.073	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	GAMMA	Bismuth-210M	0.05	0.067	0.11	PCI/G	UJ	T06, N02
SU5-41D-030AD	F6D080172	GAMMA	Cesium 137	-0.011	0.051	0.091	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	GAMMA	Cobalt 60	0.019	0.047	0.096	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	GAMMA	Lead 210	0.4	1.3	2.3	PCI/G	UJ	T06, N02
SU5-41D-030AD	F6D080172	GAMMA	Lead 212	0.76	0.12	0.13	PCI/G	=	
SU5-41D-030AD	F6D080172	GAMMA	Potassium 40	15.2	2.2	0.7	PCI/G	=	
SU5-41D-030AD	F6D080172	GAMMA	Protactinium 231	0.8	1.2	2.1	PCI/G	UJ	T06, N02
SU5-41D-030AD	F6D080172	GAMMA	Radium (226)	1	0.23	0.37	PCI/G	J	T15
SU5-41D-030AD	F6D080172	GAMMA	Thorium 229	0.2	0.64	1.1	PCI/G	UJ	T06, N02
SU5-41D-030AD	F6D080172	GAMMA	Uranium 235	-0.53	0.59	0.95	PCI/G	UJ	T06
SU5-41D-030AD	F6D080172	GAMMA	Uranium 238	-0.04	1	1.8	PCI/G	UJ	T06
SU5-41D-031	F6C310404	EML A-01-R	Plutonium-238	22.1	2.7	0.06	PCI/G	=	
SU5-41D-031	F6C310404	EML A-01-R	Plutonium-239/240	0.157	0.082	0.052	PCI/G	J	T04
SU5-41D-031	F6C310404	EML A-01-R	Thorium-228	0.35	0.13	0.07	PCI/G	=	
SU5-41D-031	F6C310404	EML A-01-R	Thorium-230	0.66	0.18	0.05	PCI/G	=	
SU5-41D-031	F6C310404	EML A-01-R	Thorium-232	0.28	0.11	0.04	PCI/G	=	
SU5-41D-031	F6C310404	GAMMA	Actinium 227	-0.02	0.19	0.29	PCI/G	UJ	T06, N02
SU5-41D-031	F6C310404	GAMMA	Actinium 228	0.43	0.21	0.4	PCI/G	=	
SU5-41D-031	F6C310404	GAMMA	Americium 241	0.059	0.076	0.13	PCI/G	UJ	T06, N02
SU5-41D-031	F6C310404	GAMMA	Bismuth 214	0.58	0.14	0.11	PCI/G	=	
SU5-41D-031	F6C310404	GAMMA	Bismuth-207	-0.001	0.027	0.05	PCI/G	UJ	T06
SU5-41D-031	F6C310404	GAMMA	Bismuth-210M	-0.019	0.039	0.068	PCI/G	UJ	T06
SU5-41D-031	F6C310404	GAMMA	Cesium 137	-0.033	0.032	0.05	PCI/G	UJ	T06
SU5-41D-031	F6C310404	GAMMA	Cobalt 60	-0.008	0.028	0.055	PCI/G	UJ	T06
SU5-41D-031	F6C310404	GAMMA	Lead 210	0.47	0.87	1.7	PCI/G	UJ	T06, N02
SU5-41D-031	F6C310404	GAMMA	Lead 212	0.271	0.088	0.099	PCI/G	=	
SU5-41D-031	F6C310404	GAMMA	Potassium 40	6.2	1.2	0.6	PCI/G	=	
SU5-41D-031	F6C310404	GAMMA	Protactinium 231	-0.65	0.65	1	PCI/G	UJ	T06, N02
SU5-41D-031	F6C310404	GAMMA	Radium (226)	0.58	0.14	0.11	PCI/G	J	T15
SU5-41D-031	F6C310404	GAMMA	Thorium 229	0.28	0.4	0.73	PCI/G	UJ	T06, N02
SU5-41D-031	F6C310404	GAMMA	Uranium 235	0.18	0.37	0.69	PCI/G	UJ	T06
SU5-41D-031	F6C310404	GAMMA	Uranium 238	0.87	0.71	1.3	PCI/G	U	T05
SU5-41D-032	F6C310404	EML A-01-R	Plutonium-238	0.7	0.19	0.08	PCI/G	=	
SU5-41D-032	F6C310404	EML A-01-R	Plutonium-239/240	0.002	0.025	0.054	PCI/G	UJ	T06
SU5-41D-032	F6C310404	EML A-01-R	Thorium-228	1.07	0.25	0.08	PCI/G	=	
SU5-41D-032	F6C310404	EML A-01-R	Thorium-230	1.15	0.26	0.06	PCI/G	=	
SU5-41D-032	F6C310404	EML A-01-R	Thorium-232	1.17	0.26	0.03	PCI/G	=	
SU5-41D-032	F6C310404	GAMMA	Actinium 227	1.28	0.35	0.61	PCI/G	=	
SU5-41D-032	F6C310404	GAMMA	Actinium 228	0.98	0.46	0.35	PCI/G	=	
SU5-41D-032	F6C310404	GAMMA	Americium 241	-0.14	0.12	0.19	PCI/G	UJ	T06, N02
SU5-41D-032	F6C310404	GAMMA	Bismuth 214	0.79	0.22	0.17	PCI/G	=	
SU5-41D-032	F6C310404	GAMMA	Bismuth-207	0.025	0.047	0.086	PCI/G	UJ	T06
SU5-41D-032	F6C310404	GAMMA	Bismuth-210M	-0.109	0.062	0.094	PCI/G	UJ	T06
SU5-41D-032	F6C310404	GAMMA	Cesium 137	0.074	0.061	0.12	PCI/G	U	T05
SU5-41D-032	F6C310404	GAMMA	Cobalt 60	-0.003	0.058	0.11	PCI/G	UJ	T06, N02
SU5-41D-032	F6C310404	GAMMA	Lead 210	0.08	1.3	2.3	PCI/G	UJ	T06, N02
SU5-41D-032	F6C310404	GAMMA	Lead 212	0.97	0.13	0.11	PCI/G	=	
SU5-41D-032	F6C310404	GAMMA	Potassium 40	28	3	0.8	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-032	F6C310404	GAMMA	Protactinium 231	1	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-032	F6C310404	GAMMA	Radium (226)	0.79	0.22	0.17	PCI/G	J	T15
SU5-41D-032	F6C310404	GAMMA	Thorium 229	-0.58	0.59	0.96	PCI/G	UJ	T06, N02
SU5-41D-032	F6C310404	GAMMA	Uranium 235	-0.5	0.61	1	PCI/G	UJ	T06
SU5-41D-032	F6C310404	GAMMA	Uranium 238	1.6	1.1	2	PCI/G	U	T05
SU5-41D-033	F6C310404	EML A-01-R	Plutonium-238	40.6	4.8	0.08	PCI/G	=	
SU5-41D-033	F6C310404	EML A-01-R	Plutonium-239/240	0.204	0.095	0.049	PCI/G	=	
SU5-41D-033	F6C310404	EML A-01-R	Thorium-228	0.84	0.21	0.05	PCI/G	=	
SU5-41D-033	F6C310404	EML A-01-R	Thorium-230	1.1	0.25	0.08	PCI/G	=	
SU5-41D-033	F6C310404	EML A-01-R	Thorium-232	0.78	0.2	0.05	PCI/G	=	
SU5-41D-033	F6C310404	GAMMA	Actinium 227	0.25	0.28	0.45	PCI/G	UJ	T06, N02
SU5-41D-033	F6C310404	GAMMA	Actinium 228	0.62	0.36	0.32	PCI/G	J	T04
SU5-41D-033	F6C310404	GAMMA	Americium 241	0.079	0.096	0.17	PCI/G	UJ	T06, N02
SU5-41D-033	F6C310404	GAMMA	Bismuth 214	0.87	0.19	0.16	PCI/G	=	
SU5-41D-033	F6C310404	GAMMA	Bismuth-207	0.006	0.038	0.07	PCI/G	UJ	T06
SU5-41D-033	F6C310404	GAMMA	Bismuth-210M	-0.019	0.059	0.1	PCI/G	UJ	T06
SU5-41D-033	F6C310404	GAMMA	Cesium 137	0.78	0.15	0.09	PCI/G	=	
SU5-41D-033	F6C310404	GAMMA	Cobalt 60	0.014	0.046	0.095	PCI/G	UJ	T06
SU5-41D-033	F6C310404	GAMMA	Lead 210	2.3	1.4	1.8	PCI/G	J	T04
SU5-41D-033	F6C310404	GAMMA	Lead 212	0.8	0.12	0.12	PCI/G	=	
SU5-41D-033	F6C310404	GAMMA	Potassium 40	15.8	2.1	0.6	PCI/G	=	
SU5-41D-033	F6C310404	GAMMA	Protactinium 231	-0.9	1.1	1.7	PCI/G	UJ	T06, N02
SU5-41D-033	F6C310404	GAMMA	Radium (226)	0.87	0.19	0.16	PCI/G	J	T15
SU5-41D-033	F6C310404	GAMMA	Thorium 229	0.13	0.53	0.95	PCI/G	UJ	T06, N02
SU5-41D-033	F6C310404	GAMMA	Uranium 235	-0.43	0.54	0.9	PCI/G	UJ	T06
SU5-41D-033	F6C310404	GAMMA	Uranium 238	0.22	0.9	1.6	PCI/G	UJ	T06
SU5-41D-034	F6D080172	EML A-01-R	Plutonium-238	48.7	5.3	0.06	PCI/G	=	
SU5-41D-034	F6D080172	EML A-01-R	Plutonium-239/240	0.42	0.13	0.02	PCI/G	=	
SU5-41D-034	F6D080172	EML A-01-R	Thorium-228	0.57	0.17	0.09	PCI/G	=	
SU5-41D-034	F6D080172	EML A-01-R	Thorium-230	0.94	0.22	0.05	PCI/G	=	
SU5-41D-034	F6D080172	EML A-01-R	Thorium-232	0.29	0.11	0.05	PCI/G	=	
SU5-41D-034	F6D080172	GAMMA	Actinium 227	0.41	0.29	0.49	PCI/G	U	T05, N02
SU5-41D-034	F6D080172	GAMMA	Actinium 228	0.28	0.21	0.44	PCI/G	U	T05
SU5-41D-034	F6D080172	GAMMA	Americium 241	0.84	0.19	0.18	PCI/G	=	
SU5-41D-034	F6D080172	GAMMA	Bismuth 214	0.7	0.18	0.34	PCI/G	=	
SU5-41D-034	F6D080172	GAMMA	Bismuth-207	0.003	0.038	0.07	PCI/G	UJ	T06
SU5-41D-034	F6D080172	GAMMA	Bismuth-210M	-0.141	0.064	0.089	PCI/G	UJ	T06
SU5-41D-034	F6D080172	GAMMA	Cesium 137	0.068	0.056	0.11	PCI/G	U	T05
SU5-41D-034	F6D080172	GAMMA	Cobalt 60	0.011	0.047	0.098	PCI/G	UJ	T06
SU5-41D-034	F6D080172	GAMMA	Lead 210	0.9	1.2	2.2	PCI/G	UJ	T06, N02
SU5-41D-034	F6D080172	GAMMA	Lead 212	0.492	0.096	0.14	PCI/G	=	
SU5-41D-034	F6D080172	GAMMA	Potassium 40	11.4	1.8	0.8	PCI/G	=	
SU5-41D-034	F6D080172	GAMMA	Protactinium 231	-0.81	0.98	1.6	PCI/G	UJ	T06, N02
SU5-41D-034	F6D080172	GAMMA	Radium (226)	0.7	0.18	0.34	PCI/G	J	T15
SU5-41D-034	F6D080172	GAMMA	Thorium 229	-0.12	0.52	0.92	PCI/G	UJ	T06, N02
SU5-41D-034	F6D080172	GAMMA	Uranium 235	0.22	0.51	0.86	PCI/G	UJ	T06
SU5-41D-034	F6D080172	GAMMA	Uranium 238	-0.1	1.1	1.6	PCI/G	UJ	T06
SU5-41D-035A	F6D080172	EML A-01-R	Plutonium-238	1.45	0.32	0.08	PCI/G	=	
SU5-41D-035A	F6D080172	EML A-01-R	Plutonium-239/240	0.009	0.025	0.05	PCI/G	UJ	T06
SU5-41D-035A	F6D080172	EML A-01-R	Thorium-228	1.04	0.23	0.06	PCI/G	=	
SU5-41D-035A	F6D080172	EML A-01-R	Thorium-230	1.22	0.26	0.03	PCI/G	=	
SU5-41D-035A	F6D080172	EML A-01-R	Thorium-232	0.88	0.21	0.03	PCI/G	=	
SU5-41D-035A	F6D080172	GAMMA	Actinium 227	0.07	0.27	0.41	PCI/G	UJ	T06, N02
SU5-41D-035A	F6D080172	GAMMA	Actinium 228	0.78	0.34	0.38	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-035A	F6D080172	GAMMA	Americium 241	0.019	0.094	0.17	PCI/G	UJ	T06, N02
SU5-41D-035A	F6D080172	GAMMA	Bismuth 214	1.08	0.23	0.17	PCI/G	=	
SU5-41D-035A	F6D080172	GAMMA	Bismuth-207	-0.052	0.041	0.061	PCI/G	UJ	T06
SU5-41D-035A	F6D080172	GAMMA	Bismuth-210M	-0.076	0.059	0.087	PCI/G	UJ	T06
SU5-41D-035A	F6D080172	GAMMA	Cesium 137	-0.02	0.051	0.095	PCI/G	UJ	T06
SU5-41D-035A	F6D080172	GAMMA	Cobalt 60	-0.036	0.061	0.11	PCI/G	UJ	T06, N02
SU5-41D-035A	F6D080172	GAMMA	Lead 210	0.9	1.2	2.2	PCI/G	UJ	T06, N02
SU5-41D-035A	F6D080172	GAMMA	Lead 212	1.21	0.16	0.12	PCI/G	=	
SU5-41D-035A	F6D080172	GAMMA	Potassium 40	21.5	2.6	1	PCI/G	=	
SU5-41D-035A	F6D080172	GAMMA	Protactinium 231	-1.2	1	1.7	PCI/G	UJ	T06, N02
SU5-41D-035A	F6D080172	GAMMA	Radium (226)	1.08	0.23	0.17	PCI/G	J	T15
SU5-41D-035A	F6D080172	GAMMA	Thorium 229	0.07	0.5	0.89	PCI/G	UJ	T06, N02
SU5-41D-035A	F6D080172	GAMMA	Uranium 235	-0.08	0.53	0.92	PCI/G	UJ	T06
SU5-41D-035A	F6D080172	GAMMA	Uranium 238	0.44	0.89	1.6	PCI/G	UJ	T06
SU5-41D-036	F6C310404	EML A-01-R	Plutonium-238	2.92	0.46	0.05	PCI/G	=	
SU5-41D-036	F6C310404	EML A-01-R	Plutonium-239/240	0.035	0.038	0.039	PCI/G	UJ	T06
SU5-41D-036	F6C310404	EML A-01-R	Thorium-228	0.6	0.17	0.07	PCI/G	=	
SU5-41D-036	F6C310404	EML A-01-R	Thorium-230	1.16	0.25	0.03	PCI/G	=	
SU5-41D-036	F6C310404	EML A-01-R	Thorium-232	0.6	0.17	0.04	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Actinium 227	0.18	0.25	0.4	PCI/G	UJ	T06, N02
SU5-41D-036	F6C310404	GAMMA	Actinium 228	0.75	0.33	0.28	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Americium 241	0.067	0.092	0.17	PCI/G	UJ	T06, N02
SU5-41D-036	F6C310404	GAMMA	Bismuth 214	0.95	0.21	0.15	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Bismuth-207	-0.032	0.043	0.071	PCI/G	UJ	T06
SU5-41D-036	F6C310404	GAMMA	Bismuth-210M	-0.036	0.053	0.089	PCI/G	UJ	T06
SU5-41D-036	F6C310404	GAMMA	Cesium 137	0.278	0.087	0.091	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Cobalt 60	-0.031	0.045	0.084	PCI/G	UJ	T06
SU5-41D-036	F6C310404	GAMMA	Lead 210	2.6	1.2	2.4	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Lead 212	0.59	0.14	0.14	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Potassium 40	13.5	2.2	0.8	PCI/G	=	
SU5-41D-036	F6C310404	GAMMA	Protactinium 231	0.4	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-036	F6C310404	GAMMA	Radium (226)	0.95	0.21	0.15	PCI/G	J	T15
SU5-41D-036	F6C310404	GAMMA	Thorium 229	-0.13	0.49	0.84	PCI/G	UJ	T06, N02
SU5-41D-036	F6C310404	GAMMA	Uranium 235	0.24	0.49	0.89	PCI/G	UJ	T06
SU5-41D-036	F6C310404	GAMMA	Uranium 238	1.1	0.98	1.6	PCI/G	U	T05
SU5-41D-037	F6C310404	EML A-01-R	Plutonium-238	1.66	0.33	0.06	PCI/G	=	
SU5-41D-037	F6C310404	EML A-01-R	Plutonium-239/240	0	0	0.03	PCI/G	U	T05
SU5-41D-037	F6C310404	EML A-01-R	Thorium-228	0.72	0.18	0.05	PCI/G	=	
SU5-41D-037	F6C310404	EML A-01-R	Thorium-230	0.79	0.19	0.04	PCI/G	=	
SU5-41D-037	F6C310404	EML A-01-R	Thorium-232	0.61	0.16	0.02	PCI/G	=	
SU5-41D-037	F6C310404	GAMMA	Actinium 227	-0.08	0.21	0.31	PCI/G	UJ	T06, N02
SU5-41D-037	F6C310404	GAMMA	Actinium 228	0.42	0.2	0.41	PCI/G	=	
SU5-41D-037	F6C310404	GAMMA	Americium 241	0.028	0.071	0.13	PCI/G	UJ	T06, N02
SU5-41D-037	F6C310404	GAMMA	Bismuth 214	0.66	0.16	0.12	PCI/G	=	
SU5-41D-037	F6C310404	GAMMA	Bismuth-207	0.021	0.025	0.054	PCI/G	UJ	T06
SU5-41D-037	F6C310404	GAMMA	Bismuth-210M	-0.014	0.041	0.072	PCI/G	UJ	T06
SU5-41D-037	F6C310404	GAMMA	Cesium 137	0.034	0.038	0.08	PCI/G	UJ	T06
SU5-41D-037	F6C310404	GAMMA	Cobalt 60	0.006	0.034	0.073	PCI/G	UJ	T06
SU5-41D-037	F6C310404	GAMMA	Lead 210	0.25	0.91	1.7	PCI/G	UJ	T06, N02
SU5-41D-037	F6C310404	GAMMA	Lead 212	0.48	0.089	0.076	PCI/G	=	
SU5-41D-037	F6C310404	GAMMA	Potassium 40	10	1.6	0.5	PCI/G	=	
SU5-41D-037	F6C310404	GAMMA	Protactinium 231	-0.66	0.83	1.4	PCI/G	UJ	T06, N02
SU5-41D-037	F6C310404	GAMMA	Radium (226)	0.66	0.16	0.12	PCI/G	J	T15
SU5-41D-037	F6C310404	GAMMA	Thorium 229	0.16	0.45	0.81	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-037	F6C310404	GAMMA	Uranium 235	0.14	0.42	0.78	PCI/G	UJ	T06
SU5-41D-037	F6C310404	GAMMA	Uranium 238	0.37	0.73	1.3	PCI/G	UJ	T06
SU5-41D-038	F6C310404	EML A-01-R	Plutonium-238	0.19	0.11	0.11	PCI/G	J	T04
SU5-41D-038	F6C310404	EML A-01-R	Plutonium-239/240	0.016	0.035	0.06	PCI/G	UJ	T06
SU5-41D-038	F6C310404	EML A-01-R	Thorium-228	0.64	0.18	0.06	PCI/G	=	
SU5-41D-038	F6C310404	EML A-01-R	Thorium-230	1.14	0.25	0.04	PCI/G	=	
SU5-41D-038	F6C310404	EML A-01-R	Thorium-232	0.6	0.17	0.04	PCI/G	=	
SU5-41D-038	F6C310404	GAMMA	Actinium 227	0.64	0.27	0.48	PCI/G	=	
SU5-41D-038	F6C310404	GAMMA	Actinium 228	0.31	0.21	0.4	PCI/G	U	T05
SU5-41D-038	F6C310404	GAMMA	Americium 241	-0.096	0.088	0.14	PCI/G	UJ	T06, N02
SU5-41D-038	F6C310404	GAMMA	Bismuth 214	0.61	0.17	0.3	PCI/G	=	
SU5-41D-038	F6C310404	GAMMA	Bismuth-207	-0.025	0.032	0.053	PCI/G	UJ	T06
SU5-41D-038	F6C310404	GAMMA	Bismuth-210M	-0.023	0.047	0.081	PCI/G	UJ	T06
SU5-41D-038	F6C310404	GAMMA	Cesium 137	-0.052	0.04	0.06	PCI/G	UJ	T06
SU5-41D-038	F6C310404	GAMMA	Cobalt 60	0.01	0.047	0.093	PCI/G	UJ	T06
SU5-41D-038	F6C310404	GAMMA	Lead 210	0.8	1	2	PCI/G	UJ	T06, N02
SU5-41D-038	F6C310404	GAMMA	Lead 212	0.52	0.09	0.098	PCI/G	=	
SU5-41D-038	F6C310404	GAMMA	Potassium 40	9.8	1.9	1	PCI/G	=	
SU5-41D-038	F6C310404	GAMMA	Protactinium 231	0.65	0.93	1.7	PCI/G	UJ	T06, N02
SU5-41D-038	F6C310404	GAMMA	Radium (226)	0.61	0.17	0.3	PCI/G	J	T15
SU5-41D-038	F6C310404	GAMMA	Thorium 229	0.2	0.46	0.83	PCI/G	UJ	T06, N02
SU5-41D-038	F6C310404	GAMMA	Uranium 235	0.11	0.48	0.85	PCI/G	UJ	T06
SU5-41D-038	F6C310404	GAMMA	Uranium 238	0.15	0.8	1.5	PCI/G	UJ	T06
SU5-41D-039	F6C310404	EML A-01-R	Plutonium-238	2.13	0.35	0.07	PCI/G	=	
SU5-41D-039	F6C310404	EML A-01-R	Plutonium-239/240	0.022	0.031	0.041	PCI/G	UJ	T06
SU5-41D-039	F6C310404	EML A-01-R	Thorium-228	0.56	0.15	0.05	PCI/G	=	
SU5-41D-039	F6C310404	EML A-01-R	Thorium-230	0.88	0.2	0.04	PCI/G	=	
SU5-41D-039	F6C310404	EML A-01-R	Thorium-232	0.46	0.14	0.04	PCI/G	=	
SU5-41D-039	F6C310404	GAMMA	Actinium 227	0.005	0.21	0.32	PCI/G	UJ	T06, N02
SU5-41D-039	F6C310404	GAMMA	Actinium 228	0.35	0.2	0.4	PCI/G	U	T05
SU5-41D-039	F6C310404	GAMMA	Americium 241	-0.023	0.074	0.13	PCI/G	UJ	T06, N02
SU5-41D-039	F6C310404	GAMMA	Bismuth 214	0.56	0.13	0.28	PCI/G	=	
SU5-41D-039	F6C310404	GAMMA	Bismuth-207	-0.015	0.035	0.06	PCI/G	UJ	T06
SU5-41D-039	F6C310404	GAMMA	Bismuth-210M	0.01	0.045	0.083	PCI/G	UJ	T06
SU5-41D-039	F6C310404	GAMMA	Cesium 137	0.014	0.04	0.078	PCI/G	UJ	T06
SU5-41D-039	F6C310404	GAMMA	Cobalt 60	-0.008	0.041	0.08	PCI/G	UJ	T06
SU5-41D-039	F6C310404	GAMMA	Lead 210	0.73	0.88	1.7	PCI/G	UJ	T06, N02
SU5-41D-039	F6C310404	GAMMA	Lead 212	0.26	0.089	0.11	PCI/G	=	
SU5-41D-039	F6C310404	GAMMA	Potassium 40	7.7	1.5	0.7	PCI/G	=	
SU5-41D-039	F6C310404	GAMMA	Protactinium 231	-0.07	0.72	1.3	PCI/G	UJ	T06, N02
SU5-41D-039	F6C310404	GAMMA	Radium (226)	0.56	0.13	0.28	PCI/G	J	T15
SU5-41D-039	F6C310404	GAMMA	Thorium 229	-0.24	0.44	0.75	PCI/G	UJ	T06, N02
SU5-41D-039	F6C310404	GAMMA	Uranium 235	-0.06	0.44	0.77	PCI/G	UJ	T06
SU5-41D-039	F6C310404	GAMMA	Uranium 238	-0.04	0.65	1.2	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	EML A-01-R	Plutonium-238	1.19	0.26	0.09	PCI/G	=	
SU5-41D-039D	F6C310404	EML A-01-R	Plutonium-239/240	0.016	0.03	0.047	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	EML A-01-R	Thorium-228	0.66	0.17	0.05	PCI/G	=	
SU5-41D-039D	F6C310404	EML A-01-R	Thorium-230	0.68	0.17	0.04	PCI/G	=	
SU5-41D-039D	F6C310404	EML A-01-R	Thorium-232	0.66	0.17	0.02	PCI/G	=	
SU5-41D-039D	F6C310404	GAMMA	Actinium 227	0.07	0.18	0.28	PCI/G	UJ	T06, N02
SU5-41D-039D	F6C310404	GAMMA	Actinium 228	0.49	0.23	0.19	PCI/G	=	
SU5-41D-039D	F6C310404	GAMMA	Americium 241	-0.016	0.055	0.099	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	GAMMA	Bismuth 214	0.46	0.15	0.26	PCI/G	=	
SU5-41D-039D	F6C310404	GAMMA	Bismuth-207	0.025	0.026	0.055	PCI/G	UJ	T06

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-039D	F6C310404	GAMMA	Bismuth-210M	-0.011	0.032	0.057	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	GAMMA	Cesium 137	0.017	0.033	0.073	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	GAMMA	Cobalt 60	0.007	0.037	0.08	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	GAMMA	Lead 210	0.01	0.81	1.5	PCI/G	UJ	T06, N02
SU5-41D-039D	F6C310404	GAMMA	Lead 212	0.297	0.095	0.1	PCI/G	=	
SU5-41D-039D	F6C310404	GAMMA	Potassium 40	9.7	1.5	0.8	PCI/G	=	
SU5-41D-039D	F6C310404	GAMMA	Protactinium 231	-0.07	0.77	1.4	PCI/G	UJ	T06, N02
SU5-41D-039D	F6C310404	GAMMA	Radium (226)	0.46	0.15	0.26	PCI/G	J	T15
SU5-41D-039D	F6C310404	GAMMA	Thorium 229	-0.18	0.34	0.57	PCI/G	UJ	T06, N02
SU5-41D-039D	F6C310404	GAMMA	Uranium 235	-0.11	0.33	0.58	PCI/G	UJ	T06
SU5-41D-039D	F6C310404	GAMMA	Uranium 238	0.38	0.63	1.2	PCI/G	UJ	T06
SU5-41D-040	F6C310404	EML A-01-R	Plutonium-238	5.18	0.73	0.08	PCI/G	=	
SU5-41D-040	F6C310404	EML A-01-R	Plutonium-239/240	0.096	0.066	0.059	PCI/G	J	T04
SU5-41D-040	F6C310404	EML A-01-R	Thorium-228	0.78	0.2	0.07	PCI/G	=	
SU5-41D-040	F6C310404	EML A-01-R	Thorium-230	1.03	0.24	0.04	PCI/G	=	
SU5-41D-040	F6C310404	EML A-01-R	Thorium-232	0.85	0.21	0.05	PCI/G	=	
SU5-41D-040	F6C310404	GAMMA	Actinium 227	0.08	0.3	0.46	PCI/G	UJ	T06, N02
SU5-41D-040	F6C310404	GAMMA	Actinium 228	1.15	0.37	0.33	PCI/G	=	
SU5-41D-040	F6C310404	GAMMA	Americium 241	0.003	0.11	0.18	PCI/G	UJ	T06, N02
SU5-41D-040	F6C310404	GAMMA	Bismuth 214	0.79	0.2	0.39	PCI/G	=	
SU5-41D-040	F6C310404	GAMMA	Bismuth-207	0.002	0.042	0.077	PCI/G	UJ	T06
SU5-41D-040	F6C310404	GAMMA	Bismuth-210M	0.037	0.059	0.11	PCI/G	UJ	T06, N02
SU5-41D-040	F6C310404	GAMMA	Cesium 137	0.091	0.069	0.14	PCI/G	U	T05
SU5-41D-040	F6C310404	GAMMA	Cobalt 60	-0.004	0.045	0.09	PCI/G	UJ	T06
SU5-41D-040	F6C310404	GAMMA	Lead 210	0.6	1.3	2.5	PCI/G	UJ	T06, N02
SU5-41D-040	F6C310404	GAMMA	Lead 212	0.74	0.16	0.17	PCI/G	=	
SU5-41D-040	F6C310404	GAMMA	Potassium 40	20	2.9	1.2	PCI/G	=	
SU5-41D-040	F6C310404	GAMMA	Protactinium 231	-0.3	1.2	2.1	PCI/G	UJ	T06, N02
SU5-41D-040	F6C310404	GAMMA	Radium (226)	0.79	0.2	0.39	PCI/G	J	T15
SU5-41D-040	F6C310404	GAMMA	Thorium 229	-0.45	0.61	0.99	PCI/G	UJ	T06, N02
SU5-41D-040	F6C310404	GAMMA	Uranium 235	-0.35	0.53	0.89	PCI/G	UJ	T06
SU5-41D-040	F6C310404	GAMMA	Uranium 238	1.1	1	1.9	PCI/G	U	T05
SU5-41D-041	F6C310404	EML A-01-R	Plutonium-238	23.6	2.8	0.08	PCI/G	=	
SU5-41D-041	F6C310404	EML A-01-R	Plutonium-239/240	0.159	0.082	0.047	PCI/G	J	T04
SU5-41D-041	F6C310404	EML A-01-R	Thorium-228	0.74	0.2	0.07	PCI/G	=	
SU5-41D-041	F6C310404	EML A-01-R	Thorium-230	1.67	0.33	0.05	PCI/G	=	
SU5-41D-041	F6C310404	EML A-01-R	Thorium-232	0.68	0.19	0.05	PCI/G	=	
SU5-41D-041	F6C310404	GAMMA	Actinium 227	0.39	0.26	0.43	PCI/G	U	T05, N02
SU5-41D-041	F6C310404	GAMMA	Actinium 228	0.3	0.2	0.24	PCI/G	J	T04
SU5-41D-041	F6C310404	GAMMA	Americium 241	-0.036	0.083	0.14	PCI/G	UJ	T06, N02
SU5-41D-041	F6C310404	GAMMA	Bismuth 214	0.42	0.15	0.1	PCI/G	=	
SU5-41D-041	F6C310404	GAMMA	Bismuth-207	-0.01	0.029	0.05	PCI/G	UJ	T06
SU5-41D-041	F6C310404	GAMMA	Bismuth-210M	-0.012	0.043	0.074	PCI/G	UJ	T06
SU5-41D-041	F6C310404	GAMMA	Cesium 137	0.019	0.043	0.082	PCI/G	UJ	T06
SU5-41D-041	F6C310404	GAMMA	Cobalt 60	0.029	0.049	0.099	PCI/G	UJ	T06
SU5-41D-041	F6C310404	GAMMA	Lead 210	1.3	1.2	1.6	PCI/G	U	T05, N02
SU5-41D-041	F6C310404	GAMMA	Lead 212	0.448	0.081	0.076	PCI/G	=	
SU5-41D-041	F6C310404	GAMMA	Potassium 40	8.5	1.7	0.7	PCI/G	=	
SU5-41D-041	F6C310404	GAMMA	Protactinium 231	0.41	0.85	1.5	PCI/G	UJ	T06, N02
SU5-41D-041	F6C310404	GAMMA	Radium (226)	0.42	0.15	0.1	PCI/G	J	T15
SU5-41D-041	F6C310404	GAMMA	Thorium 229	-0.02	0.45	0.78	PCI/G	UJ	T06, N02
SU5-41D-041	F6C310404	GAMMA	Uranium 235	-0.02	0.43	0.75	PCI/G	UJ	T06
SU5-41D-041	F6C310404	GAMMA	Uranium 238	-0.26	0.76	1.3	PCI/G	UJ	T06
SU5-41D-042	F6C310404	EML A-01-R	Plutonium-238	0.42	0.15	0.1	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-042	F6C310404	EML A-01-R	Plutonium-239/240	-0.007	0.024	0.054	PCI/G	UJ	T06
SU5-41D-042	F6C310404	EML A-01-R	Thorium-228	0.85	0.2	0.05	PCI/G	=	
SU5-41D-042	F6C310404	EML A-01-R	Thorium-230	0.85	0.2	0.05	PCI/G	=	
SU5-41D-042	F6C310404	EML A-01-R	Thorium-232	0.98	0.22	0.03	PCI/G	=	
SU5-41D-042	F6C310404	GAMMA	Actinium 227	0.18	0.29	0.46	PCI/G	UJ	T06, N02
SU5-41D-042	F6C310404	GAMMA	Actinium 228	0.47	0.32	0.31	PCI/G	J	T04
SU5-41D-042	F6C310404	GAMMA	Americium 241	0.02	0.1	0.18	PCI/G	UJ	T06, N02
SU5-41D-042	F6C310404	GAMMA	Bismuth 214	0.74	0.18	0.14	PCI/G	=	
SU5-41D-042	F6C310404	GAMMA	Bismuth-207	0.014	0.041	0.079	PCI/G	UJ	T06
SU5-41D-042	F6C310404	GAMMA	Bismuth-210M	-0.086	0.06	0.091	PCI/G	UJ	T06
SU5-41D-042	F6C310404	GAMMA	Cesium 137	0.037	0.064	0.12	PCI/G	UJ	T06
SU5-41D-042	F6C310404	GAMMA	Cobalt 60	-0.038	0.062	0.11	PCI/G	UJ	T06, N02
SU5-41D-042	F6C310404	GAMMA	Lead 210	0.4	1.2	2.1	PCI/G	UJ	T06, N02
SU5-41D-042	F6C310404	GAMMA	Lead 212	0.9	0.14	0.11	PCI/G	=	
SU5-41D-042	F6C310404	GAMMA	Potassium 40	21.3	2.8	1.1	PCI/G	=	
SU5-41D-042	F6C310404	GAMMA	Protactinium 231	-0.1	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-042	F6C310404	GAMMA	Radium (226)	0.74	0.18	0.14	PCI/G	J	T15
SU5-41D-042	F6C310404	GAMMA	Thorium 229	-0.17	0.56	0.98	PCI/G	UJ	T06, N02
SU5-41D-042	F6C310404	GAMMA	Uranium 235	0.39	0.61	0.98	PCI/G	UJ	T06
SU5-41D-042	F6C310404	GAMMA	Uranium 238	0.38	0.98	1.8	PCI/G	UJ	T06
SU5-41D-043	F6C310404	EML A-01-R	Plutonium-238	10.4	1.4	0.1	PCI/G	=	
SU5-41D-043	F6C310404	EML A-01-R	Plutonium-239/240	0.092	0.066	0.052	PCI/G	J	T04
SU5-41D-043	F6C310404	EML A-01-R	Thorium-228	0.98	0.22	0.06	PCI/G	=	
SU5-41D-043	F6C310404	EML A-01-R	Thorium-230	0.87	0.21	0.03	PCI/G	=	
SU5-41D-043	F6C310404	EML A-01-R	Thorium-232	1.04	0.23	0.06	PCI/G	=	
SU5-41D-043	F6C310404	GAMMA	Actinium 227	-0.18	0.27	0.37	PCI/G	UJ	T06, N02
SU5-41D-043	F6C310404	GAMMA	Actinium 228	0.92	0.41	0.37	PCI/G	=	
SU5-41D-043	F6C310404	GAMMA	Americium 241	-0.051	0.09	0.16	PCI/G	UJ	T06, N02
SU5-41D-043	F6C310404	GAMMA	Bismuth 214	0.73	0.21	0.36	PCI/G	=	
SU5-41D-043	F6C310404	GAMMA	Bismuth-207	0.004	0.036	0.067	PCI/G	UJ	T06
SU5-41D-043	F6C310404	GAMMA	Bismuth-210M	0.03	0.055	0.1	PCI/G	UJ	T06
SU5-41D-043	F6C310404	GAMMA	Cesium 137	0.009	0.058	0.11	PCI/G	UJ	T06
SU5-41D-043	F6C310404	GAMMA	Cobalt 60	-0.004	0.064	0.12	PCI/G	UJ	T06, N02
SU5-41D-043	F6C310404	GAMMA	Lead 210	1.9	1.1	2.2	PCI/G	U	T05, N02
SU5-41D-043	F6C310404	GAMMA	Lead 212	0.88	0.15	0.15	PCI/G	=	
SU5-41D-043	F6C310404	GAMMA	Potassium 40	25	3	0.8	PCI/G	=	
SU5-41D-043	F6C310404	GAMMA	Protactinium 231	-0.4	1	1.8	PCI/G	UJ	T06, N02
SU5-41D-043	F6C310404	GAMMA	Radium (226)	0.73	0.21	0.36	PCI/G	J	T15
SU5-41D-043	F6C310404	GAMMA	Thorium 229	-0.13	0.52	0.89	PCI/G	UJ	T06, N02
SU5-41D-043	F6C310404	GAMMA	Uranium 235	-0.1	0.53	0.91	PCI/G	UJ	T06
SU5-41D-043	F6C310404	GAMMA	Uranium 238	0.39	0.94	1.7	PCI/G	UJ	T06
SU5-41D-044A	F6D080172	EML A-01-R	Plutonium-238	8.4	1.7	0.1	PCI/G	=	
SU5-41D-044A	F6D080172	EML A-01-R	Plutonium-239/240	0.066	0.089	0.059	PCI/G	J	T04
SU5-41D-044A	F6D080172	EML A-01-R	Thorium-228	1.05	0.24	0.07	PCI/G	=	
SU5-41D-044A	F6D080172	EML A-01-R	Thorium-230	0.68	0.18	0.05	PCI/G	=	
SU5-41D-044A	F6D080172	EML A-01-R	Thorium-232	0.83	0.2	0.05	PCI/G	=	
SU5-41D-044A	F6D080172	GAMMA	Actinium 227	0.33	0.32	0.55	PCI/G	U	T05, N02
SU5-41D-044A	F6D080172	GAMMA	Actinium 228	1.01	0.39	0.39	PCI/G	=	
SU5-41D-044A	F6D080172	GAMMA	Americium 241	-0.02	0.12	0.21	PCI/G	UJ	T06, N02
SU5-41D-044A	F6D080172	GAMMA	Bismuth 214	0.58	0.23	0.4	PCI/G	=	
SU5-41D-044A	F6D080172	GAMMA	Bismuth-207	0.003	0.047	0.087	PCI/G	UJ	T06
SU5-41D-044A	F6D080172	GAMMA	Bismuth-210M	-0.017	0.07	0.12	PCI/G	UJ	T06, N02
SU5-41D-044A	F6D080172	GAMMA	Cesium 137	0.044	0.06	0.12	PCI/G	UJ	T06
SU5-41D-044A	F6D080172	GAMMA	Cobalt 60	-0.008	0.055	0.11	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-044A	F6D080172	GAMMA	Lead 210	1.3	1.5	2.8	PCI/G	UJ	T06, N02
SU5-41D-044A	F6D080172	GAMMA	Lead 212	0.83	0.21	0.2	PCI/G	=	
SU5-41D-044A	F6D080172	GAMMA	Potassium 40	25.2	3.5	1	PCI/G	=	
SU5-41D-044A	F6D080172	GAMMA	Protactinium 231	-0.7	1.1	1.9	PCI/G	UJ	T06, N02
SU5-41D-044A	F6D080172	GAMMA	Radium (226)	0.58	0.23	0.4	PCI/G	J	T15
SU5-41D-044A	F6D080172	GAMMA	Thorium 229	0.2	0.67	1.2	PCI/G	UJ	T06, N02
SU5-41D-044A	F6D080172	GAMMA	Uranium 235	0.08	0.61	1.1	PCI/G	UJ	T06
SU5-41D-044A	F6D080172	GAMMA	Uranium 238	0.6	1.2	2.1	PCI/G	UJ	T06
SU5-41D-045	F6C310404	EML A-01-R	Plutonium-238	20.3	2.5	0.07	PCI/G	=	
SU5-41D-045	F6C310404	EML A-01-R	Plutonium-239/240	0.061	0.055	0.057	PCI/G	J	T04
SU5-41D-045	F6C310404	EML A-01-R	Thorium-228	0.4	0.14	0.07	PCI/G	=	
SU5-41D-045	F6C310404	EML A-01-R	Thorium-230	0.89	0.21	0.05	PCI/G	=	
SU5-41D-045	F6C310404	EML A-01-R	Thorium-232	0.52	0.15	0.05	PCI/G	=	
SU5-41D-045	F6C310404	GAMMA	Actinium 227	-0.007	0.19	0.3	PCI/G	UJ	T06, N02
SU5-41D-045	F6C310404	GAMMA	Actinium 228	0.39	0.2	0.41	PCI/G	U	T05
SU5-41D-045	F6C310404	GAMMA	Americium 241	0.046	0.069	0.13	PCI/G	UJ	T06, N02
SU5-41D-045	F6C310404	GAMMA	Bismuth 214	0.52	0.13	0.28	PCI/G	=	
SU5-41D-045	F6C310404	GAMMA	Bismuth-207	-0.01	0.026	0.046	PCI/G	UJ	T06
SU5-41D-045	F6C310404	GAMMA	Bismuth-210M	-0.039	0.04	0.065	PCI/G	UJ	T06
SU5-41D-045	F6C310404	GAMMA	Cesium 137	0.009	0.038	0.075	PCI/G	UJ	T06
SU5-41D-045	F6C310404	GAMMA	Cobalt 60	-0.004	0.032	0.065	PCI/G	UJ	T06
SU5-41D-045	F6C310404	GAMMA	Lead 210	1.1	1	1.9	PCI/G	U	T05, N02
SU5-41D-045	F6C310404	GAMMA	Lead 212	0.356	0.076	0.08	PCI/G	=	
SU5-41D-045	F6C310404	GAMMA	Potassium 40	6.3	1.3	0.6	PCI/G	=	
SU5-41D-045	F6C310404	GAMMA	Protactinium 231	0.19	0.76	1.4	PCI/G	UJ	T06, N02
SU5-41D-045	F6C310404	GAMMA	Radium (226)	0.52	0.13	0.28	PCI/G	J	T15
SU5-41D-045	F6C310404	GAMMA	Thorium 229	-0.09	0.47	0.79	PCI/G	UJ	T06, N02
SU5-41D-045	F6C310404	GAMMA	Uranium 235	-0.17	0.39	0.67	PCI/G	UJ	T06
SU5-41D-045	F6C310404	GAMMA	Uranium 238	0.44	0.67	1.3	PCI/G	UJ	T06
SU5-41D-046	F6C310405	EML A-01-R	Plutonium-238	0.99	0.23	0.07	PCI/G	=	
SU5-41D-046	F6C310405	EML A-01-R	Plutonium-239/240	-0.004	0.023	0.048	PCI/G	UJ	T06
SU5-41D-046	F6C310405	EML A-01-R	Thorium-228	0.85	0.21	0.07	PCI/G	=	
SU5-41D-046	F6C310405	EML A-01-R	Thorium-230	0.9	0.21	0.05	PCI/G	=	
SU5-41D-046	F6C310405	EML A-01-R	Thorium-232	0.86	0.21	0.05	PCI/G	=	
SU5-41D-046	F6C310405	GAMMA	Actinium 227	0.06	0.26	0.4	PCI/G	UJ	T06, N02
SU5-41D-046	F6C310405	GAMMA	Actinium 228	0.75	0.33	0.32	PCI/G	=	
SU5-41D-046	F6C310405	GAMMA	Americium 241	-0.055	0.083	0.14	PCI/G	UJ	T06, N02
SU5-41D-046	F6C310405	GAMMA	Bismuth 214	0.66	0.17	0.34	PCI/G	=	
SU5-41D-046	F6C310405	GAMMA	Bismuth-207	0.005	0.042	0.077	PCI/G	UJ	T06
SU5-41D-046	F6C310405	GAMMA	Bismuth-210M	-0.006	0.047	0.086	PCI/G	UJ	T06
SU5-41D-046	F6C310405	GAMMA	Cesium 137	0.056	0.056	0.12	PCI/G	U	T05
SU5-41D-046	F6C310405	GAMMA	Cobalt 60	-0.004	0.057	0.11	PCI/G	UJ	T06, N02
SU5-41D-046	F6C310405	GAMMA	Lead 210	0.8	1	2	PCI/G	UJ	T06, N02
SU5-41D-046	F6C310405	GAMMA	Lead 212	0.68	0.13	0.14	PCI/G	=	
SU5-41D-046	F6C310405	GAMMA	Potassium 40	20.7	2.6	0.7	PCI/G	=	
SU5-41D-046	F6C310405	GAMMA	Protactinium 231	-1.06	0.96	1.5	PCI/G	UJ	T06, N02
SU5-41D-046	F6C310405	GAMMA	Radium (226)	0.66	0.17	0.34	PCI/G	J	T15
SU5-41D-046	F6C310405	GAMMA	Thorium 229	0.03	0.49	0.87	PCI/G	UJ	T06, N02
SU5-41D-046	F6C310405	GAMMA	Uranium 235	0.09	0.49	0.88	PCI/G	UJ	T06
SU5-41D-046	F6C310405	GAMMA	Uranium 238	0.55	0.89	1.7	PCI/G	UJ	T06
SU5-41D-047	F6C310405	EML A-01-R	Plutonium-238	0.174	0.097	0.092	PCI/G	J	T04
SU5-41D-047	F6C310405	EML A-01-R	Plutonium-239/240	0.0006	0.025	0.055	PCI/G	UJ	T06
SU5-41D-047	F6C310405	EML A-01-R	Thorium-228	0.73	0.18	0.05	PCI/G	=	
SU5-41D-047	F6C310405	EML A-01-R	Thorium-230	0.78	0.19	0.04	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-047	F6C310405	EML A-01-R	Thorium-232	0.65	0.17	0.05	PCI/G	=	
SU5-41D-047	F6C310405	GAMMA	Actinium 227	0.44	0.24	0.46	PCI/G	U	T05, N02
SU5-41D-047	F6C310405	GAMMA	Actinium 228	0.4	0.3	0.25	PCI/G	J	T04
SU5-41D-047	F6C310405	GAMMA	Americium 241	-0.024	0.095	0.16	PCI/G	UJ	T06, N02
SU5-41D-047	F6C310405	GAMMA	Bismuth 214	0.65	0.18	0.37	PCI/G	=	
SU5-41D-047	F6C310405	GAMMA	Bismuth-207	0.026	0.038	0.077	PCI/G	UJ	T06
SU5-41D-047	F6C310405	GAMMA	Bismuth-210M	-0.007	0.049	0.088	PCI/G	UJ	T06
SU5-41D-047	F6C310405	GAMMA	Cesium 137	0.044	0.044	0.096	PCI/G	U	T05
SU5-41D-047	F6C310405	GAMMA	Cobalt 60	0.007	0.041	0.09	PCI/G	UJ	T06
SU5-41D-047	F6C310405	GAMMA	Lead 210	-0.02	1.2	2.2	PCI/G	UJ	T06, N02
SU5-41D-047	F6C310405	GAMMA	Lead 212	0.61	0.12	0.12	PCI/G	=	
SU5-41D-047	F6C310405	GAMMA	Potassium 40	17.4	2.4	0.2	PCI/G	=	
SU5-41D-047	F6C310405	GAMMA	Protactinium 231	0.05	1.1	1.9	PCI/G	UJ	T06, N02
SU5-41D-047	F6C310405	GAMMA	Radium (226)	0.65	0.18	0.37	PCI/G	J	T15
SU5-41D-047	F6C310405	GAMMA	Thorium 229	0.16	0.56	1	PCI/G	UJ	T06, N02
SU5-41D-047	F6C310405	GAMMA	Uranium 235	-0.39	0.49	0.81	PCI/G	UJ	T06
SU5-41D-047	F6C310405	GAMMA	Uranium 238	0.46	0.92	1.7	PCI/G	UJ	T06
SU5-41D-048	F6C310405	EML A-01-R	Plutonium-238	43.7	4.9	0.09	PCI/G	=	
SU5-41D-048	F6C310405	EML A-01-R	Plutonium-239/240	0.48	0.14	0.02	PCI/G	=	
SU5-41D-048	F6C310405	EML A-01-R	Thorium-228	0.99	0.22	0.06	PCI/G	=	
SU5-41D-048	F6C310405	EML A-01-R	Thorium-230	0.95	0.21	0.05	PCI/G	=	
SU5-41D-048	F6C310405	EML A-01-R	Thorium-232	1	0.22	0.04	PCI/G	=	
SU5-41D-048	F6C310405	GAMMA	Actinium 227	1.21	0.4	0.69	PCI/G	=	
SU5-41D-048	F6C310405	GAMMA	Actinium 228	0.75	0.42	0.31	PCI/G	J	T04
SU5-41D-048	F6C310405	GAMMA	Americium 241	0.204	0.077	0.19	PCI/G	=	
SU5-41D-048	F6C310405	GAMMA	Bismuth 214	0.78	0.24	0.38	PCI/G	=	
SU5-41D-048	F6C310405	GAMMA	Bismuth-207	0.039	0.045	0.088	PCI/G	UJ	T06
SU5-41D-048	F6C310405	GAMMA	Bismuth-210M	-0.129	0.072	0.11	PCI/G	UJ	T06, N02
SU5-41D-048	F6C310405	GAMMA	Cesium 137	0.128	0.073	0.1	PCI/G	J	T04
SU5-41D-048	F6C310405	GAMMA	Cobalt 60	0.037	0.064	0.13	PCI/G	UJ	T06, N02
SU5-41D-048	F6C310405	GAMMA	Lead 210	0.4	1.4	2.5	PCI/G	UJ	T06, N02
SU5-41D-048	F6C310405	GAMMA	Lead 212	0.83	0.13	0.13	PCI/G	=	
SU5-41D-048	F6C310405	GAMMA	Potassium 40	19.7	2.7	0.7	PCI/G	=	
SU5-41D-048	F6C310405	GAMMA	Protactinium 231	1.2	1.2	2.1	PCI/G	U	T05, N02
SU5-41D-048	F6C310405	GAMMA	Radium (226)	0.78	0.24	0.38	PCI/G	J	T15
SU5-41D-048	F6C310405	GAMMA	Thorium 229	-0.008	0.65	1.1	PCI/G	UJ	T06, N02
SU5-41D-048	F6C310405	GAMMA	Uranium 235	-1.03	0.64	0.94	PCI/G	UJ	T06
SU5-41D-048	F6C310405	GAMMA	Uranium 238	1.2	1.1	2	PCI/G	U	T05
SU5-41D-049	F6C310405	EML A-01-R	Plutonium-238	1.48	0.32	0.1	PCI/G	=	
SU5-41D-049	F6C310405	EML A-01-R	Plutonium-239/240	0.01	0.039	0.073	PCI/G	UJ	T06
SU5-41D-049	F6C310405	EML A-01-R	Thorium-228	0.78	0.2	0.05	PCI/G	=	
SU5-41D-049	F6C310405	EML A-01-R	Thorium-230	1.01	0.23	0.04	PCI/G	=	
SU5-41D-049	F6C310405	EML A-01-R	Thorium-232	0.83	0.21	0.05	PCI/G	=	
SU5-41D-049	F6C310405	GAMMA	Actinium 227	-0.13	0.3	0.43	PCI/G	UJ	T06, N02
SU5-41D-049	F6C310405	GAMMA	Actinium 228	0.84	0.34	0.31	PCI/G	=	
SU5-41D-049	F6C310405	GAMMA	Americium 241	-0.0002	0.086	0.15	PCI/G	UJ	T06, N02
SU5-41D-049	F6C310405	GAMMA	Bismuth 214	0.82	0.21	0.16	PCI/G	=	
SU5-41D-049	F6C310405	GAMMA	Bismuth-207	0.021	0.037	0.073	PCI/G	UJ	T06
SU5-41D-049	F6C310405	GAMMA	Bismuth-210M	-0.003	0.053	0.095	PCI/G	UJ	T06
SU5-41D-049	F6C310405	GAMMA	Cesium 137	0.065	0.063	0.13	PCI/G	U	T05
SU5-41D-049	F6C310405	GAMMA	Cobalt 60	0.015	0.061	0.12	PCI/G	UJ	T06, N02
SU5-41D-049	F6C310405	GAMMA	Lead 210	1.2	1.1	2.1	PCI/G	U	T05, N02
SU5-41D-049	F6C310405	GAMMA	Lead 212	0.88	0.17	0.14	PCI/G	=	
SU5-41D-049	F6C310405	GAMMA	Potassium 40	23.6	2.9	0.9	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-049	F6C310405	GAMMA	Protactinium 231	-0.9	1	1.7	PCI/G	UJ	T06, N02
SU5-41D-049	F6C310405	GAMMA	Radium (226)	0.82	0.21	0.16	PCI/G	J	T15
SU5-41D-049	F6C310405	GAMMA	Thorium 229	-0.1	0.52	0.9	PCI/G	UJ	T06, N02
SU5-41D-049	F6C310405	GAMMA	Uranium 235	-0.32	0.47	0.77	PCI/G	UJ	T06
SU5-41D-049	F6C310405	GAMMA	Uranium 238	0.64	0.95	1.8	PCI/G	UJ	T06
SU5-41D-049D	F6C310405	EML A-01-R	Plutonium-238	0.92	0.21	0.07	PCI/G	=	
SU5-41D-049D	F6C310405	EML A-01-R	Plutonium-239/240	0.032	0.037	0.043	PCI/G	UJ	T06
SU5-41D-049D	F6C310405	EML A-01-R	Thorium-228	0.95	0.22	0.05	PCI/G	=	
SU5-41D-049D	F6C310405	EML A-01-R	Thorium-230	0.86	0.21	0.05	PCI/G	=	
SU5-41D-049D	F6C310405	EML A-01-R	Thorium-232	0.74	0.19	0.04	PCI/G	=	
SU5-41D-049D	F6C310405	GAMMA	Actinium 227	0.12	0.32	0.52	PCI/G	UJ	T06, N02
SU5-41D-049D	F6C310405	GAMMA	Actinium 228	0.88	0.41	0.42	PCI/G	=	
SU5-41D-049D	F6C310405	GAMMA	Americium 241	0.02	0.11	0.2	PCI/G	UJ	T06, N02
SU5-41D-049D	F6C310405	GAMMA	Bismuth 214	0.91	0.22	0.46	PCI/G	=	
SU5-41D-049D	F6C310405	GAMMA	Bismuth-207	0.03	0.051	0.1	PCI/G	UJ	T06
SU5-41D-049D	F6C310405	GAMMA	Bismuth-210M	0.046	0.069	0.13	PCI/G	UJ	T06, N02
SU5-41D-049D	F6C310405	GAMMA	Cesium 137	0.09	0.07	0.15	PCI/G	U	T05
SU5-41D-049D	F6C310405	GAMMA	Cobalt 60	-0.044	0.051	0.082	PCI/G	UJ	T06
SU5-41D-049D	F6C310405	GAMMA	Lead 210	0.9	1.5	2.8	PCI/G	UJ	T06, N02
SU5-41D-049D	F6C310405	GAMMA	Lead 212	0.85	0.22	0.18	PCI/G	=	
SU5-41D-049D	F6C310405	GAMMA	Potassium 40	22.6	3.2	0.8	PCI/G	=	
SU5-41D-049D	F6C310405	GAMMA	Protactinium 231	0.2	1.5	2.3	PCI/G	UJ	T06, N02
SU5-41D-049D	F6C310405	GAMMA	Radium (226)	0.91	0.22	0.46	PCI/G	J	T15
SU5-41D-049D	F6C310405	GAMMA	Thorium 229	0.2	0.6	1.1	PCI/G	UJ	T06, N02
SU5-41D-049D	F6C310405	GAMMA	Uranium 235	-0.17	0.6	1.1	PCI/G	UJ	T06
SU5-41D-049D	F6C310405	GAMMA	Uranium 238	0.6	1.1	2	PCI/G	UJ	T06
SU5-41D-050	F6C310405	EML A-01-R	Plutonium-238	4.79	0.7	0.09	PCI/G	=	
SU5-41D-050	F6C310405	EML A-01-R	Plutonium-239/240	0.095	0.065	0.049	PCI/G	J	T04
SU5-41D-050	F6C310405	EML A-01-R	Thorium-228	1.25	0.25	0.07	PCI/G	=	
SU5-41D-050	F6C310405	EML A-01-R	Thorium-230	1.34	0.26	0.05	PCI/G	=	
SU5-41D-050	F6C310405	EML A-01-R	Thorium-232	1.34	0.26	0.04	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Actinium 227	1.19	0.37	0.65	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Actinium 228	1.12	0.42	0.4	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Americium 241	-0.08	0.12	0.19	PCI/G	UJ	T06, N02
SU5-41D-050	F6C310405	GAMMA	Bismuth 214	0.72	0.2	0.34	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Bismuth-207	-0.022	0.043	0.073	PCI/G	UJ	T06
SU5-41D-050	F6C310405	GAMMA	Bismuth-210M	0.035	0.073	0.11	PCI/G	UJ	T06, N02
SU5-41D-050	F6C310405	GAMMA	Cesium 137	0.363	0.094	0.089	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Cobalt 60	0.033	0.05	0.11	PCI/G	UJ	T06, N02
SU5-41D-050	F6C310405	GAMMA	Lead 210	2.7	1.4	2.7	PCI/G	U	T05, N02
SU5-41D-050	F6C310405	GAMMA	Lead 212	1.01	0.18	0.17	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Potassium 40	14.3	2.2	1	PCI/G	=	
SU5-41D-050	F6C310405	GAMMA	Protactinium 231	1.4	1.4	2.2	PCI/G	U	T05, N02
SU5-41D-050	F6C310405	GAMMA	Radium (226)	0.72	0.2	0.34	PCI/G	J	T15
SU5-41D-050	F6C310405	GAMMA	Thorium 229	-0.17	0.64	1.1	PCI/G	UJ	T06, N02
SU5-41D-050	F6C310405	GAMMA	Uranium 235	-0.58	0.66	1.1	PCI/G	UJ	T06
SU5-41D-050	F6C310405	GAMMA	Uranium 238	0.3	1	1.9	PCI/G	UJ	T06
SU5-41D-051	F6C310405	EML A-01-R	Plutonium-238	0.32	0.13	0.09	PCI/G	=	
SU5-41D-051	F6C310405	EML A-01-R	Plutonium-239/240	-0.021	0.034	0.076	PCI/G	UJ	T06
SU5-41D-051	F6C310405	EML A-01-R	Thorium-228	0.98	0.23	0.06	PCI/G	=	
SU5-41D-051	F6C310405	EML A-01-R	Thorium-230	1.13	0.25	0.03	PCI/G	=	
SU5-41D-051	F6C310405	EML A-01-R	Thorium-232	0.88	0.22	0.04	PCI/G	=	
SU5-41D-051	F6C310405	GAMMA	Actinium 227	-0.11	0.27	0.39	PCI/G	UJ	T06, N02
SU5-41D-051	F6C310405	GAMMA	Actinium 228	0.53	0.31	0.28	PCI/G	J	T04

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-051	F6C310405	GAMMA	Americium 241	-0.006	0.091	0.16	PCI/G	UJ	T06, N02
SU5-41D-051	F6C310405	GAMMA	Bismuth 214	0.51	0.17	0.16	PCI/G	=	
SU5-41D-051	F6C310405	GAMMA	Bismuth-207	-0.024	0.035	0.058	PCI/G	UJ	T06
SU5-41D-051	F6C310405	GAMMA	Bismuth-210M	-0.053	0.058	0.095	PCI/G	UJ	T06
SU5-41D-051	F6C310405	GAMMA	Cesium 137	0.007	0.052	0.096	PCI/G	UJ	T06
SU5-41D-051	F6C310405	GAMMA	Cobalt 60	-0.018	0.044	0.082	PCI/G	UJ	T06
SU5-41D-051	F6C310405	GAMMA	Lead 210	0.5	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-051	F6C310405	GAMMA	Lead 212	0.63	0.11	0.1	PCI/G	=	
SU5-41D-051	F6C310405	GAMMA	Potassium 40	18.1	2.4	0.8	PCI/G	=	
SU5-41D-051	F6C310405	GAMMA	Protactinium 231	-0.6	1	1.7	PCI/G	UJ	T06, N02
SU5-41D-051	F6C310405	GAMMA	Radium (226)	0.51	0.17	0.16	PCI/G	J	T15
SU5-41D-051	F6C310405	GAMMA	Thorium 229	0.12	0.54	0.98	PCI/G	UJ	T06, N02
SU5-41D-051	F6C310405	GAMMA	Uranium 235	-0.16	0.52	0.9	PCI/G	UJ	T06
SU5-41D-051	F6C310405	GAMMA	Uranium 238	0.7	0.89	1.6	PCI/G	UJ	T06
SU5-41D-052	F6C310405	EML A-01-R	Plutonium-238	0.114	0.073	0.062	PCI/G	J	T04
SU5-41D-052	F6C310405	EML A-01-R	Plutonium-239/240	-0.005	0.024	0.052	PCI/G	UJ	T06
SU5-41D-052	F6C310405	EML A-01-R	Thorium-228	0.85	0.2	0.05	PCI/G	=	
SU5-41D-052	F6C310405	EML A-01-R	Thorium-230	1.02	0.22	0.04	PCI/G	=	
SU5-41D-052	F6C310405	EML A-01-R	Thorium-232	0.81	0.2	0.04	PCI/G	=	
SU5-41D-052	F6C310405	GAMMA	Actinium 227	0.17	0.26	0.42	PCI/G	UJ	T06, N02
SU5-41D-052	F6C310405	GAMMA	Actinium 228	0.91	0.34	0.63	PCI/G	=	
SU5-41D-052	F6C310405	GAMMA	Americium 241	0.051	0.089	0.17	PCI/G	UJ	T06, N02
SU5-41D-052	F6C310405	GAMMA	Bismuth 214	0.78	0.19	0.15	PCI/G	=	
SU5-41D-052	F6C310405	GAMMA	Bismuth-207	-0.016	0.042	0.072	PCI/G	UJ	T06
SU5-41D-052	F6C310405	GAMMA	Bismuth-210M	-0.017	0.052	0.092	PCI/G	UJ	T06
SU5-41D-052	F6C310405	GAMMA	Cesium 137	0.027	0.054	0.11	PCI/G	UJ	T06
SU5-41D-052	F6C310405	GAMMA	Cobalt 60	0.009	0.06	0.12	PCI/G	UJ	T06, N02
SU5-41D-052	F6C310405	GAMMA	Lead 210	-0.3	1.2	2.1	PCI/G	UJ	T06, N02
SU5-41D-052	F6C310405	GAMMA	Lead 212	0.81	0.16	0.15	PCI/G	=	
SU5-41D-052	F6C310405	GAMMA	Potassium 40	22.2	3	1	PCI/G	=	
SU5-41D-052	F6C310405	GAMMA	Protactinium 231	-0.7	1	1.7	PCI/G	UJ	T06, N02
SU5-41D-052	F6C310405	GAMMA	Radium (226)	0.78	0.19	0.15	PCI/G	J	T15
SU5-41D-052	F6C310405	GAMMA	Thorium 229	0.46	0.53	1	PCI/G	UJ	T06, N02
SU5-41D-052	F6C310405	GAMMA	Uranium 235	0.15	0.53	0.95	PCI/G	UJ	T06
SU5-41D-052	F6C310405	GAMMA	Uranium 238	1.68	0.94	1.8	PCI/G	U	T05
SU5-41D-053	F6C310405	EML A-01-R	Plutonium-238	3.18	0.51	0.09	PCI/G	=	
SU5-41D-053	F6C310405	EML A-01-R	Plutonium-239/240	0.07	0.058	0.056	PCI/G	J	T04
SU5-41D-053	F6C310405	EML A-01-R	Thorium-228	0.84	0.21	0.08	PCI/G	=	
SU5-41D-053	F6C310405	EML A-01-R	Thorium-230	0.72	0.19	0.07	PCI/G	=	
SU5-41D-053	F6C310405	EML A-01-R	Thorium-232	0.81	0.2	0.06	PCI/G	=	
SU5-41D-053	F6C310405	GAMMA	Actinium 227	0.32	0.25	0.44	PCI/G	U	T05, N02
SU5-41D-053	F6C310405	GAMMA	Actinium 228	0.73	0.37	0.3	PCI/G	J	T04
SU5-41D-053	F6C310405	GAMMA	Americium 241	-0.056	0.09	0.15	PCI/G	UJ	T06, N02
SU5-41D-053	F6C310405	GAMMA	Bismuth 214	0.61	0.18	0.34	PCI/G	=	
SU5-41D-053	F6C310405	GAMMA	Bismuth-207	0.004	0.043	0.078	PCI/G	UJ	T06
SU5-41D-053	F6C310405	GAMMA	Bismuth-210M	-0.02	0.056	0.099	PCI/G	UJ	T06
SU5-41D-053	F6C310405	GAMMA	Cesium 137	0.174	0.089	0.11	PCI/G	J	T04
SU5-41D-053	F6C310405	GAMMA	Cobalt 60	-0.048	0.055	0.094	PCI/G	UJ	T06
SU5-41D-053	F6C310405	GAMMA	Lead 210	1.8	1.2	2.3	PCI/G	U	T05, N02
SU5-41D-053	F6C310405	GAMMA	Lead 212	0.93	0.16	0.15	PCI/G	=	
SU5-41D-053	F6C310405	GAMMA	Potassium 40	23.4	2.8	1.2	PCI/G	=	
SU5-41D-053	F6C310405	GAMMA	Protactinium 231	-0.4	1.1	1.8	PCI/G	UJ	T06, N02
SU5-41D-053	F6C310405	GAMMA	Radium (226)	0.61	0.18	0.34	PCI/G	J	T15
SU5-41D-053	F6C310405	GAMMA	Thorium 229	-0.02	0.59	1	PCI/G	UJ	T06, N02

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R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-053	F6C310405	GAMMA	Uranium 235	0.005	0.51	0.89	PCI/G	UJ	T06
SU5-41D-053	F6C310405	GAMMA	Uranium 238	0.57	0.88	1.6	PCI/G	UJ	T06
SU5-41D-054	F6C310405	EML A-01-R	Plutonium-238	2.5	0.41	0.08	PCI/G	=	
SU5-41D-054	F6C310405	EML A-01-R	Plutonium-239/240	0.015	0.028	0.045	PCI/G	UJ	T06
SU5-41D-054	F6C310405	EML A-01-R	Thorium-228	1.09	0.25	0.08	PCI/G	=	
SU5-41D-054	F6C310405	EML A-01-R	Thorium-230	1.55	0.31	0.05	PCI/G	=	
SU5-41D-054	F6C310405	EML A-01-R	Thorium-232	0.94	0.22	0.04	PCI/G	=	
SU5-41D-054	F6C310405	GAMMA	Actinium 227	-0.004	0.31	0.47	PCI/G	UJ	T06, N02
SU5-41D-054	F6C310405	GAMMA	Actinium 228	0.74	0.37	0.3	PCI/G	J	T04
SU5-41D-054	F6C310405	GAMMA	Americium 241	0.03	0.11	0.19	PCI/G	UJ	T06, N02
SU5-41D-054	F6C310405	GAMMA	Bismuth 214	0.71	0.23	0.18	PCI/G	=	
SU5-41D-054	F6C310405	GAMMA	Bismuth-207	-0.022	0.053	0.09	PCI/G	UJ	T06
SU5-41D-054	F6C310405	GAMMA	Bismuth-210M	-0.024	0.066	0.11	PCI/G	UJ	T06, N02
SU5-41D-054	F6C310405	GAMMA	Cesium 137	0.115	0.088	0.12	PCI/G	U	T05
SU5-41D-054	F6C310405	GAMMA	Cobalt 60	0.071	0.059	0.14	PCI/G	U	T05, N02
SU5-41D-054	F6C310405	GAMMA	Lead 210	0.06	1.3	2.5	PCI/G	UJ	T06, N02
SU5-41D-054	F6C310405	GAMMA	Lead 212	0.8	0.2	0.17	PCI/G	=	
SU5-41D-054	F6C310405	GAMMA	Potassium 40	18.7	2.7	1.1	PCI/G	=	
SU5-41D-054	F6C310405	GAMMA	Protactinium 231	-0.9	1.2	2	PCI/G	UJ	T06, N02
SU5-41D-054	F6C310405	GAMMA	Radium (226)	0.71	0.23	0.18	PCI/G	J	T15
SU5-41D-054	F6C310405	GAMMA	Thorium 229	0.11	0.61	1.1	PCI/G	UJ	T06, N02
SU5-41D-054	F6C310405	GAMMA	Uranium 235	-0.18	0.55	0.96	PCI/G	UJ	T06
SU5-41D-054	F6C310405	GAMMA	Uranium 238	0.5	1	1.9	PCI/G	UJ	T06
SU5-41D-055	F6C310405	EML A-01-R	Plutonium-238	0.29	0.11	0.05	PCI/G	=	
SU5-41D-055	F6C310405	EML A-01-R	Plutonium-239/240	0.007	0.02	0.039	PCI/G	UJ	T06
SU5-41D-055	F6C310405	EML A-01-R	Thorium-228	0.72	0.19	0.08	PCI/G	=	
SU5-41D-055	F6C310405	EML A-01-R	Thorium-230	0.7	0.18	0.05	PCI/G	=	
SU5-41D-055	F6C310405	EML A-01-R	Thorium-232	0.82	0.2	0.05	PCI/G	=	
SU5-41D-055	F6C310405	GAMMA	Actinium 227	-0.002	0.29	0.43	PCI/G	UJ	T06, N02
SU5-41D-055	F6C310405	GAMMA	Actinium 228	0.85	0.32	0.28	PCI/G	=	
SU5-41D-055	F6C310405	GAMMA	Americium 241	-0.058	0.098	0.17	PCI/G	UJ	T06, N02
SU5-41D-055	F6C310405	GAMMA	Bismuth 214	0.76	0.21	0.11	PCI/G	=	
SU5-41D-055	F6C310405	GAMMA	Bismuth-207	-0.006	0.044	0.079	PCI/G	UJ	T06
SU5-41D-055	F6C310405	GAMMA	Bismuth-210M	-0.035	0.06	0.1	PCI/G	UJ	T06
SU5-41D-055	F6C310405	GAMMA	Cesium 137	0.044	0.057	0.11	PCI/G	UJ	T06
SU5-41D-055	F6C310405	GAMMA	Cobalt 60	0.058	0.067	0.14	PCI/G	UJ	T06, N02
SU5-41D-055	F6C310405	GAMMA	Lead 210	1.1	1.2	2.3	PCI/G	UJ	T06, N02
SU5-41D-055	F6C310405	GAMMA	Lead 212	0.6	0.13	0.16	PCI/G	=	
SU5-41D-055	F6C310405	GAMMA	Potassium 40	16.9	2.6	0.9	PCI/G	=	
SU5-41D-055	F6C310405	GAMMA	Protactinium 231	0.3	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-055	F6C310405	GAMMA	Radium (226)	0.76	0.21	0.11	PCI/G	J	T15
SU5-41D-055	F6C310405	GAMMA	Thorium 229	-0.68	0.57	0.92	PCI/G	UJ	T06, N02
SU5-41D-055	F6C310405	GAMMA	Uranium 235	-0.63	0.56	0.89	PCI/G	UJ	T06
SU5-41D-055	F6C310405	GAMMA	Uranium 238	1.01	0.94	1.8	PCI/G	U	T05
SU5-41D-055D	F6C310405	EML A-01-R	Plutonium-238	0.222	0.093	0.047	PCI/G	=	
SU5-41D-055D	F6C310405	EML A-01-R	Plutonium-239/240	0	0	0.02	PCI/G	U	T05
SU5-41D-055D	F6C310405	EML A-01-R	Thorium-228	0.97	0.25	0.09	PCI/G	=	
SU5-41D-055D	F6C310405	EML A-01-R	Thorium-230	1.29	0.29	0.05	PCI/G	=	
SU5-41D-055D	F6C310405	EML A-01-R	Thorium-232	0.96	0.24	0.03	PCI/G	=	
SU5-41D-055D	F6C310405	GAMMA	Actinium 227	-0.1	0.24	0.34	PCI/G	UJ	T06, N02
SU5-41D-055D	F6C310405	GAMMA	Actinium 228	0.71	0.3	0.29	PCI/G	=	
SU5-41D-055D	F6C310405	GAMMA	Americium 241	0.096	0.082	0.16	PCI/G	U	T05, N02
SU5-41D-055D	F6C310405	GAMMA	Bismuth 214	0.9	0.2	0.37	PCI/G	=	
SU5-41D-055D	F6C310405	GAMMA	Bismuth-207	-0.014	0.035	0.06	PCI/G	UJ	T06

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-055D	F6C310405	GAMMA	Bismuth-210M	-0.025	0.047	0.081	PCI/G	UJ	T06
SU5-41D-055D	F6C310405	GAMMA	Cesium 137	0.028	0.06	0.12	PCI/G	UJ	T06
SU5-41D-055D	F6C310405	GAMMA	Cobalt 60	0.048	0.048	0.11	PCI/G	U	T05, N02
SU5-41D-055D	F6C310405	GAMMA	Lead 210	0.8	1	2	PCI/G	UJ	T06, N02
SU5-41D-055D	F6C310405	GAMMA	Lead 212	0.73	0.15	0.15	PCI/G	=	
SU5-41D-055D	F6C310405	GAMMA	Potassium 40	17.5	2.3	0.7	PCI/G	=	
SU5-41D-055D	F6C310405	GAMMA	Protactinium 231	-0.72	0.94	1.6	PCI/G	UJ	T06, N02
SU5-41D-055D	F6C310405	GAMMA	Radium (226)	0.9	0.2	0.37	PCI/G	J	T15
SU5-41D-055D	F6C310405	GAMMA	Thorium 229	0.15	0.48	0.87	PCI/G	UJ	T06, N02
SU5-41D-055D	F6C310405	GAMMA	Uranium 235	-0.18	0.48	0.81	PCI/G	UJ	T06
SU5-41D-055D	F6C310405	GAMMA	Uranium 238	0.5	0.78	1.5	PCI/G	UJ	T06
SU5-41D-056	F6C310405	EML A-01-R	Plutonium-238	3.3	0.51	0.09	PCI/G	=	
SU5-41D-056	F6C310405	EML A-01-R	Plutonium-239/240	0.041	0.044	0.05	PCI/G	UJ	T06
SU5-41D-056	F6C310405	EML A-01-R	Thorium-228	1.11	0.24	0.08	PCI/G	=	
SU5-41D-056	F6C310405	EML A-01-R	Thorium-230	1.02	0.23	0.06	PCI/G	=	
SU5-41D-056	F6C310405	EML A-01-R	Thorium-232	0.88	0.21	0.05	PCI/G	=	
SU5-41D-056	F6C310405	GAMMA	Actinium 227	0.16	0.27	0.45	PCI/G	UJ	T06, N02
SU5-41D-056	F6C310405	GAMMA	Actinium 228	0.61	0.29	0.59	PCI/G	=	
SU5-41D-056	F6C310405	GAMMA	Americium 241	-0.007	0.1	0.18	PCI/G	UJ	T06, N02
SU5-41D-056	F6C310405	GAMMA	Bismuth 214	0.83	0.21	0.41	PCI/G	=	
SU5-41D-056	F6C310405	GAMMA	Bismuth-207	-0.002	0.041	0.076	PCI/G	UJ	T06
SU5-41D-056	F6C310405	GAMMA	Bismuth-210M	-0.041	0.062	0.1	PCI/G	UJ	T06
SU5-41D-056	F6C310405	GAMMA	Cesium 137	0.124	0.068	0.15	PCI/G	U	T05
SU5-41D-056	F6C310405	GAMMA	Cobalt 60	-0.015	0.05	0.094	PCI/G	UJ	T06
SU5-41D-056	F6C310405	GAMMA	Lead 210	0.8	1.3	2.5	PCI/G	UJ	T06, N02
SU5-41D-056	F6C310405	GAMMA	Lead 212	0.7	0.14	0.13	PCI/G	=	
SU5-41D-056	F6C310405	GAMMA	Potassium 40	18.8	2.7	0.9	PCI/G	=	
SU5-41D-056	F6C310405	GAMMA	Protactinium 231	-1.5	1.3	2.1	PCI/G	UJ	T06, N02
SU5-41D-056	F6C310405	GAMMA	Radium (226)	0.83	0.21	0.41	PCI/G	J	T15
SU5-41D-056	F6C310405	GAMMA	Thorium 229	0.15	0.61	1.1	PCI/G	UJ	T06, N02
SU5-41D-056	F6C310405	GAMMA	Uranium 235	-0.08	0.54	0.96	PCI/G	UJ	T06
SU5-41D-056	F6C310405	GAMMA	Uranium 238	1.1	1.2	2	PCI/G	UJ	T06
SU5-41D-057	F6C310405	EML A-01-R	Plutonium-238	0.98	0.23	0.09	PCI/G	=	
SU5-41D-057	F6C310405	EML A-01-R	Plutonium-239/240	-0.004	0.023	0.049	PCI/G	UJ	T06
SU5-41D-057	F6C310405	EML A-01-R	Thorium-228	0.77	0.2	0.1	PCI/G	=	
SU5-41D-057	F6C310405	EML A-01-R	Thorium-230	0.67	0.17	0.06	PCI/G	=	
SU5-41D-057	F6C310405	EML A-01-R	Thorium-232	0.73	0.18	0.04	PCI/G	=	
SU5-41D-057	F6C310405	GAMMA	Actinium 227	0.18	0.32	0.48	PCI/G	UJ	T06, N02
SU5-41D-057	F6C310405	GAMMA	Actinium 228	0.55	0.36	0.37	PCI/G	J	T04
SU5-41D-057	F6C310405	GAMMA	Americium 241	-0.06	0.11	0.18	PCI/G	UJ	T06, N02
SU5-41D-057	F6C310405	GAMMA	Bismuth 214	0.54	0.19	0.18	PCI/G	=	
SU5-41D-057	F6C310405	GAMMA	Bismuth-207	-0.029	0.041	0.068	PCI/G	UJ	T06
SU5-41D-057	F6C310405	GAMMA	Bismuth-210M	-0.015	0.058	0.1	PCI/G	UJ	T06
SU5-41D-057	F6C310405	GAMMA	Cesium 137	0.038	0.061	0.11	PCI/G	UJ	T06
SU5-41D-057	F6C310405	GAMMA	Cobalt 60	0.014	0.052	0.1	PCI/G	UJ	T06
SU5-41D-057	F6C310405	GAMMA	Lead 210	1.1	1.2	2.2	PCI/G	UJ	T06, N02
SU5-41D-057	F6C310405	GAMMA	Lead 212	0.61	0.13	0.12	PCI/G	=	
SU5-41D-057	F6C310405	GAMMA	Potassium 40	16.1	2.4	0.9	PCI/G	=	
SU5-41D-057	F6C310405	GAMMA	Protactinium 231	0.006	1	1.7	PCI/G	UJ	T06, N02
SU5-41D-057	F6C310405	GAMMA	Radium (226)	0.54	0.19	0.18	PCI/G	J	T15
SU5-41D-057	F6C310405	GAMMA	Thorium 229	-0.02	0.54	0.93	PCI/G	UJ	T06, N02
SU5-41D-057	F6C310405	GAMMA	Uranium 235	-0.77	0.56	0.85	PCI/G	UJ	T06
SU5-41D-057	F6C310405	GAMMA	Uranium 238	-0.02	0.96	1.7	PCI/G	UJ	T06
SU5-41D-058	F6C310405	EML A-01-R	Plutonium-238	0.42	0.14	0.08	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-058	F6C310405	EML A-01-R	Plutonium-239/240	0.03	0.044	0.061	PCI/G	UJ	T06
SU5-41D-058	F6C310405	EML A-01-R	Thorium-228	0.77	0.2	0.09	PCI/G	=	
SU5-41D-058	F6C310405	EML A-01-R	Thorium-230	0.87	0.21	0.06	PCI/G	=	
SU5-41D-058	F6C310405	EML A-01-R	Thorium-232	0.72	0.19	0.05	PCI/G	=	
SU5-41D-058	F6C310405	GAMMA	Actinium 227	0.11	0.27	0.43	PCI/G	UJ	T06, N02
SU5-41D-058	F6C310405	GAMMA	Actinium 228	0.68	0.3	0.52	PCI/G	=	
SU5-41D-058	F6C310405	GAMMA	Americium 241	-0.006	0.09	0.16	PCI/G	UJ	T06, N02
SU5-41D-058	F6C310405	GAMMA	Bismuth 214	0.76	0.2	0.15	PCI/G	=	
SU5-41D-058	F6C310405	GAMMA	Bismuth-207	-0.0001	0.036	0.067	PCI/G	UJ	T06
SU5-41D-058	F6C310405	GAMMA	Bismuth-210M	-0.042	0.054	0.089	PCI/G	UJ	T06
SU5-41D-058	F6C310405	GAMMA	Cesium 137	-0.0001	0.048	0.088	PCI/G	UJ	T06
SU5-41D-058	F6C310405	GAMMA	Cobalt 60	0.034	0.051	0.11	PCI/G	UJ	T06, N02
SU5-41D-058	F6C310405	GAMMA	Lead 210	0.6	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-058	F6C310405	GAMMA	Lead 212	0.46	0.15	0.18	PCI/G	=	
SU5-41D-058	F6C310405	GAMMA	Potassium 40	14.9	2.3	1	PCI/G	=	
SU5-41D-058	F6C310405	GAMMA	Protactinium 231	-0.9	1.1	1.7	PCI/G	UJ	T06, N02
SU5-41D-058	F6C310405	GAMMA	Radium (226)	0.76	0.2	0.15	PCI/G	J	T15
SU5-41D-058	F6C310405	GAMMA	Thorium 229	0.07	0.55	0.99	PCI/G	UJ	T06, N02
SU5-41D-058	F6C310405	GAMMA	Uranium 235	-0.25	0.5	0.85	PCI/G	UJ	T06
SU5-41D-058	F6C310405	GAMMA	Uranium 238	0.42	0.91	1.7	PCI/G	UJ	T06
SU5-41D-059	F6C310405	EML A-01-R	Plutonium-238	129	19	2	PCI/G	=	
SU5-41D-059	F6C310405	EML A-01-R	Plutonium-239/240	2	1.4	1.2	PCI/G	J	T04
SU5-41D-059	F6C310405	EML A-01-R	Thorium-228	0.78	0.2	0.07	PCI/G	=	
SU5-41D-059	F6C310405	EML A-01-R	Thorium-230	0.99	0.23	0.03	PCI/G	=	
SU5-41D-059	F6C310405	EML A-01-R	Thorium-232	0.67	0.18	0.03	PCI/G	=	
SU5-41D-059	F6C310405	GAMMA	Actinium 227	0.11	0.21	0.34	PCI/G	UJ	T06, N02
SU5-41D-059	F6C310405	GAMMA	Actinium 228	0.5	0.26	0.25	PCI/G	J	T04
SU5-41D-059	F6C310405	GAMMA	Americium 241	0.89	0.21	0.13	PCI/G	=	
SU5-41D-059	F6C310405	GAMMA	Bismuth 214	0.69	0.18	0.14	PCI/G	=	
SU5-41D-059	F6C310405	GAMMA	Bismuth-207	0.007	0.032	0.059	PCI/G	UJ	T06
SU5-41D-059	F6C310405	GAMMA	Bismuth-210M	-0.004	0.042	0.076	PCI/G	UJ	T06
SU5-41D-059	F6C310405	GAMMA	Cesium 137	0.084	0.059	0.069	PCI/G	J	T04
SU5-41D-059	F6C310405	GAMMA	Cobalt 60	-0.033	0.044	0.077	PCI/G	UJ	T06
SU5-41D-059	F6C310405	GAMMA	Lead 210	0.45	0.9	1.7	PCI/G	UJ	T06, N02
SU5-41D-059	F6C310405	GAMMA	Lead 212	0.51	0.15	0.11	PCI/G	=	
SU5-41D-059	F6C310405	GAMMA	Potassium 40	12.1	1.8	0.4	PCI/G	=	
SU5-41D-059	F6C310405	GAMMA	Protactinium 231	-1.22	0.85	1.3	PCI/G	UJ	T06, N02
SU5-41D-059	F6C310405	GAMMA	Radium (226)	0.69	0.18	0.14	PCI/G	J	T15
SU5-41D-059	F6C310405	GAMMA	Thorium 229	0.09	0.4	0.73	PCI/G	UJ	T06, N02
SU5-41D-059	F6C310405	GAMMA	Uranium 235	0.2	0.42	0.75	PCI/G	UJ	T06
SU5-41D-059	F6C310405	GAMMA	Uranium 238	0.93	0.92	1.4	PCI/G	U	T05
SU5-41D-060	F6C310405	EML A-01-R	Plutonium-238	0.5	0.16	0.1	PCI/G	=	
SU5-41D-060	F6C310405	EML A-01-R	Plutonium-239/240	-0.007	0.025	0.055	PCI/G	UJ	T06
SU5-41D-060	F6C310405	EML A-01-R	Thorium-228	0.83	0.21	0.07	PCI/G	=	
SU5-41D-060	F6C310405	EML A-01-R	Thorium-230	1.06	0.24	0.05	PCI/G	=	
SU5-41D-060	F6C310405	EML A-01-R	Thorium-232	0.82	0.21	0.05	PCI/G	=	
SU5-41D-060	F6C310405	GAMMA	Actinium 227	0.03	0.34	0.52	PCI/G	UJ	T06, N02
SU5-41D-060	F6C310405	GAMMA	Actinium 228	0.82	0.41	0.34	PCI/G	J	T04
SU5-41D-060	F6C310405	GAMMA	Americium 241	-0.05	0.11	0.18	PCI/G	UJ	T06, N02
SU5-41D-060	F6C310405	GAMMA	Bismuth 214	0.72	0.19	0.4	PCI/G	=	
SU5-41D-060	F6C310405	GAMMA	Bismuth-207	0.003	0.049	0.09	PCI/G	UJ	T06
SU5-41D-060	F6C310405	GAMMA	Bismuth-210M	-0.038	0.058	0.097	PCI/G	UJ	T06
SU5-41D-060	F6C310405	GAMMA	Cesium 137	0.057	0.05	0.1	PCI/G	U	T05
SU5-41D-060	F6C310405	GAMMA	Cobalt 60	0.032	0.044	0.11	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-060	F6C310405	GAMMA	Lead 210	2.1	1.5	2.9	PCI/G	U	T05, N02
SU5-41D-060	F6C310405	GAMMA	Lead 212	0.84	0.17	0.19	PCI/G	=	
SU5-41D-060	F6C310405	GAMMA	Potassium 40	19.5	2.7	0.9	PCI/G	=	
SU5-41D-060	F6C310405	GAMMA	Protactinium 231	-0.3	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-060	F6C310405	GAMMA	Radium (226)	0.72	0.19	0.4	PCI/G	J	T15
SU5-41D-060	F6C310405	GAMMA	Thorium 229	-0.69	0.68	1.1	PCI/G	UJ	T06, N02
SU5-41D-060	F6C310405	GAMMA	Uranium 235	0.52	0.61	1.2	PCI/G	UJ	T06
SU5-41D-060	F6C310405	GAMMA	Uranium 238	1	1.1	2	PCI/G	UJ	T06
SU5-41D-061	F6C310405	EML A-01-R	Plutonium-238	0.097	0.075	0.082	PCI/G	J	T04
SU5-41D-061	F6C310405	EML A-01-R	Plutonium-239/240	-0.003	0.021	0.044	PCI/G	UJ	T06
SU5-41D-061	F6C310405	EML A-01-R	Thorium-228	0.85	0.21	0.07	PCI/G	=	
SU5-41D-061	F6C310405	EML A-01-R	Thorium-230	0.87	0.21	0.05	PCI/G	=	
SU5-41D-061	F6C310405	EML A-01-R	Thorium-232	0.65	0.18	0.03	PCI/G	=	
SU5-41D-061	F6C310405	GAMMA	Actinium 227	0.87	0.33	0.57	PCI/G	=	
SU5-41D-061	F6C310405	GAMMA	Actinium 228	0.78	0.29	0.29	PCI/G	=	
SU5-41D-061	F6C310405	GAMMA	Americium 241	-0.07	0.1	0.18	PCI/G	UJ	T06, N02
SU5-41D-061	F6C310405	GAMMA	Bismuth 214	0.46	0.18	0.31	PCI/G	=	
SU5-41D-061	F6C310405	GAMMA	Bismuth-207	0.006	0.038	0.071	PCI/G	UJ	T06
SU5-41D-061	F6C310405	GAMMA	Bismuth-210M	-0.093	0.062	0.097	PCI/G	UJ	T06
SU5-41D-061	F6C310405	GAMMA	Cesium 137	-0.064	0.055	0.086	PCI/G	UJ	T06
SU5-41D-061	F6C310405	GAMMA	Cobalt 60	-0.026	0.058	0.1	PCI/G	UJ	T06
SU5-41D-061	F6C310405	GAMMA	Lead 210	1.2	1.2	2.3	PCI/G	U	T05, N02
SU5-41D-061	F6C310405	GAMMA	Lead 212	0.63	0.14	0.14	PCI/G	=	
SU5-41D-061	F6C310405	GAMMA	Potassium 40	20.9	2.6	0.8	PCI/G	=	
SU5-41D-061	F6C310405	GAMMA	Protactinium 231	0.2	1.1	1.9	PCI/G	UJ	T06, N02
SU5-41D-061	F6C310405	GAMMA	Radium (226)	0.46	0.18	0.31	PCI/G	J	T15
SU5-41D-061	F6C310405	GAMMA	Thorium 229	0.25	0.54	0.97	PCI/G	UJ	T06, N02
SU5-41D-061	F6C310405	GAMMA	Uranium 235	0.11	0.63	0.94	PCI/G	UJ	T06
SU5-41D-061	F6C310405	GAMMA	Uranium 238	0.24	0.95	1.7	PCI/G	UJ	T06
SU5-41D-062	F6C310405	EML A-01-R	Plutonium-238	16.3	2	0.07	PCI/G	=	
SU5-41D-062	F6C310405	EML A-01-R	Plutonium-239/240	0.172	0.089	0.058	PCI/G	J	T04
SU5-41D-062	F6C310405	EML A-01-R	Thorium-228	1.13	0.23	0.06	PCI/G	=	
SU5-41D-062	F6C310405	EML A-01-R	Thorium-230	0.9	0.2	0.05	PCI/G	=	
SU5-41D-062	F6C310405	EML A-01-R	Thorium-232	1.06	0.22	0.04	PCI/G	=	
SU5-41D-062	F6C310405	GAMMA	Actinium 227	0.21	0.3	0.48	PCI/G	UJ	T06, N02
SU5-41D-062	F6C310405	GAMMA	Actinium 228	1.12	0.4	0.32	PCI/G	=	
SU5-41D-062	F6C310405	GAMMA	Americium 241	0.2	0.14	0.22	PCI/G	U	T05, N02
SU5-41D-062	F6C310405	GAMMA	Bismuth 214	0.67	0.2	0.36	PCI/G	=	
SU5-41D-062	F6C310405	GAMMA	Bismuth-207	0.03	0.044	0.085	PCI/G	UJ	T06
SU5-41D-062	F6C310405	GAMMA	Bismuth-210M	0.006	0.061	0.11	PCI/G	UJ	T06, N02
SU5-41D-062	F6C310405	GAMMA	Cesium 137	0.001	0.057	0.1	PCI/G	UJ	T06
SU5-41D-062	F6C310405	GAMMA	Cobalt 60	-0.013	0.051	0.096	PCI/G	UJ	T06
SU5-41D-062	F6C310405	GAMMA	Lead 210	0.2	1.2	2.2	PCI/G	UJ	T06, N02
SU5-41D-062	F6C310405	GAMMA	Lead 212	0.9	0.17	0.17	PCI/G	=	
SU5-41D-062	F6C310405	GAMMA	Potassium 40	28.2	3.2	0.8	PCI/G	=	
SU5-41D-062	F6C310405	GAMMA	Protactinium 231	-0.8	1.2	1.9	PCI/G	UJ	T06, N02
SU5-41D-062	F6C310405	GAMMA	Radium (226)	0.67	0.2	0.36	PCI/G	J	T15
SU5-41D-062	F6C310405	GAMMA	Thorium 229	-0.007	0.64	1.1	PCI/G	UJ	T06, N02
SU5-41D-062	F6C310405	GAMMA	Uranium 235	0.07	0.62	1	PCI/G	UJ	T06
SU5-41D-062	F6C310405	GAMMA	Uranium 238	1.4	1.4	1.9	PCI/G	U	T05
SU5-41D-063	F6C310405	EML A-01-R	Plutonium-238	3.52	0.53	0.08	PCI/G	=	
SU5-41D-063	F6C310405	EML A-01-R	Plutonium-239/240	0.087	0.059	0.045	PCI/G	J	T04
SU5-41D-063	F6C310405	EML A-01-R	Thorium-228	1.05	0.25	0.05	PCI/G	=	
SU5-41D-063	F6C310405	EML A-01-R	Thorium-230	1.04	0.24	0.05	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-063	F6C310405	EML A-01-R	Thorium-232	1.04	0.24	0.03	PCI/G	=	
SU5-41D-063	F6C310405	GAMMA	Actinium 227	0.11	0.23	0.37	PCI/G	UJ	T06, N02
SU5-41D-063	F6C310405	GAMMA	Actinium 228	0.94	0.36	0.31	PCI/G	=	
SU5-41D-063	F6C310405	GAMMA	Americium 241	0.015	0.075	0.14	PCI/G	UJ	T06, N02
SU5-41D-063	F6C310405	GAMMA	Bismuth 214	0.38	0.17	0.29	PCI/G	=	
SU5-41D-063	F6C310405	GAMMA	Bismuth-207	0.019	0.04	0.077	PCI/G	UJ	T06
SU5-41D-063	F6C310405	GAMMA	Bismuth-210M	0.022	0.047	0.088	PCI/G	UJ	T06
SU5-41D-063	F6C310405	GAMMA	Cesium 137	0.106	0.088	0.092	PCI/G	J	T04
SU5-41D-063	F6C310405	GAMMA	Cobalt 60	0.019	0.052	0.11	PCI/G	UJ	T06, N02
SU5-41D-063	F6C310405	GAMMA	Lead 210	1.5	1.4	1.6	PCI/G	U	T05, N02
SU5-41D-063	F6C310405	GAMMA	Lead 212	0.76	0.12	0.09	PCI/G	=	
SU5-41D-063	F6C310405	GAMMA	Potassium 40	14.7	2	1	PCI/G	=	
SU5-41D-063	F6C310405	GAMMA	Protactinium 231	0.32	0.93	1.7	PCI/G	UJ	T06, N02
SU5-41D-063	F6C310405	GAMMA	Radium (226)	0.38	0.17	0.29	PCI/G	J	T15
SU5-41D-063	F6C310405	GAMMA	Thorium 229	-0.03	0.49	0.85	PCI/G	UJ	T06, N02
SU5-41D-063	F6C310405	GAMMA	Uranium 235	0.04	0.46	0.82	PCI/G	UJ	T06
SU5-41D-063	F6C310405	GAMMA	Uranium 238	0.74	0.71	1.4	PCI/G	U	T05
SU5-41D-064	F6C310406	EML A-01-R	Plutonium-238	0.25	0.11	0.07	PCI/G	=	
SU5-41D-064	F6C310406	EML A-01-R	Plutonium-239/240	0.02	0.034	0.027	PCI/G	UJ	T06
SU5-41D-064	F6C310406	EML A-01-R	Thorium-228	0.79	0.2	0.07	PCI/G	=	
SU5-41D-064	F6C310406	EML A-01-R	Thorium-230	0.84	0.21	0.06	PCI/G	=	
SU5-41D-064	F6C310406	EML A-01-R	Thorium-232	1	0.23	0.04	PCI/G	=	
SU5-41D-064	F6C310406	GAMMA	Actinium 227	0.07	0.3	0.46	PCI/G	UJ	T06, N02
SU5-41D-064	F6C310406	GAMMA	Actinium 228	0.6	0.29	0.29	PCI/G	J	J01
SU5-41D-064	F6C310406	GAMMA	Americium 241	0.088	0.091	0.17	PCI/G	UJ	T06, N02
SU5-41D-064	F6C310406	GAMMA	Bismuth 214	0.45	0.17	0.32	PCI/G	=	
SU5-41D-064	F6C310406	GAMMA	Bismuth-207	0.039	0.039	0.08	PCI/G	U	T05
SU5-41D-064	F6C310406	GAMMA	Bismuth-210M	-0.028	0.058	0.098	PCI/G	UJ	T06
SU5-41D-064	F6C310406	GAMMA	Cesium 137	0.006	0.052	0.095	PCI/G	UJ	T06
SU5-41D-064	F6C310406	GAMMA	Cobalt 60	0.042	0.049	0.11	PCI/G	UJ	T06, N02
SU5-41D-064	F6C310406	GAMMA	Lead 210	1.4	1.1	2.1	PCI/G	U	T05, N02
SU5-41D-064	F6C310406	GAMMA	Lead 212	0.77	0.15	0.16	PCI/G	=	
SU5-41D-064	F6C310406	GAMMA	Potassium 40	21	2.7	0.9	PCI/G	=	
SU5-41D-064	F6C310406	GAMMA	Protactinium 231	-0.4	1.1	1.9	PCI/G	UJ	T06, N02
SU5-41D-064	F6C310406	GAMMA	Radium (226)	0.45	0.17	0.32	PCI/G	J	T15
SU5-41D-064	F6C310406	GAMMA	Thorium 229	0.08	0.54	0.97	PCI/G	UJ	T06, N02
SU5-41D-064	F6C310406	GAMMA	Uranium 235	-0.32	0.56	0.94	PCI/G	UJ	T06
SU5-41D-064	F6C310406	GAMMA	Uranium 238	-0.08	0.95	1.7	PCI/G	UJ	T06
SU5-41D-065	F6C310406	EML A-01-R	Plutonium-238	1.97	0.37	0.05	PCI/G	=	
SU5-41D-065	F6C310406	EML A-01-R	Plutonium-239/240	0.051	0.049	0.045	PCI/G	J	T04
SU5-41D-065	F6C310406	EML A-01-R	Thorium-228	0.24	0.11	0.07	PCI/G	=	
SU5-41D-065	F6C310406	EML A-01-R	Thorium-230	0.63	0.18	0.03	PCI/G	=	
SU5-41D-065	F6C310406	EML A-01-R	Thorium-232	0.35	0.13	0.04	PCI/G	=	
SU5-41D-065	F6C310406	GAMMA	Actinium 227	-0.02	0.18	0.27	PCI/G	UJ	T06, N02
SU5-41D-065	F6C310406	GAMMA	Actinium 228	0.13	0.12	0.26	PCI/G	UJ	J01, T05
SU5-41D-065	F6C310406	GAMMA	Americium 241	-0.048	0.065	0.1	PCI/G	UJ	T06
SU5-41D-065	F6C310406	GAMMA	Bismuth 214	0.46	0.13	0.12	PCI/G	=	
SU5-41D-065	F6C310406	GAMMA	Bismuth-207	-0.003	0.023	0.043	PCI/G	UJ	T06
SU5-41D-065	F6C310406	GAMMA	Bismuth-210M	0.02	0.032	0.063	PCI/G	UJ	T06
SU5-41D-065	F6C310406	GAMMA	Cesium 137	-0.002	0.028	0.054	PCI/G	UJ	T06
SU5-41D-065	F6C310406	GAMMA	Cobalt 60	-0.007	0.033	0.064	PCI/G	UJ	T06
SU5-41D-065	F6C310406	GAMMA	Lead 210	0.37	0.75	1.5	PCI/G	UJ	T06, N02
SU5-41D-065	F6C310406	GAMMA	Lead 212	0.248	0.073	0.091	PCI/G	=	
SU5-41D-065	F6C310406	GAMMA	Potassium 40	5.2	1.1	0.6	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-065	F6C310406	GAMMA	Protactinium 231	0.02	0.67	1.2	PCI/G	UJ	T06, N02
SU5-41D-065	F6C310406	GAMMA	Radium (226)	0.46	0.13	0.12	PCI/G	J	T15
SU5-41D-065	F6C310406	GAMMA	Thorium 229	-0.29	0.38	0.61	PCI/G	UJ	T06, N02
SU5-41D-065	F6C310406	GAMMA	Uranium 235	-0.07	0.32	0.57	PCI/G	UJ	T06
SU5-41D-065	F6C310406	GAMMA	Uranium 238	0.29	0.6	1.1	PCI/G	UJ	T06
SU5-41D-066	F6C310406	EML A-01-R	Plutonium-238	2.1	0.35	0.05	PCI/G	=	
SU5-41D-066	F6C310406	EML A-01-R	Plutonium-239/240	0.021	0.033	0.047	PCI/G	UJ	T06
SU5-41D-066	F6C310406	EML A-01-R	Thorium-228	1.29	0.28	0.04	PCI/G	=	
SU5-41D-066	F6C310406	EML A-01-R	Thorium-230	1.01	0.24	0.04	PCI/G	=	
SU5-41D-066	F6C310406	EML A-01-R	Thorium-232	1.06	0.24	0.04	PCI/G	=	
SU5-41D-066	F6C310406	GAMMA	Actinium 227	1.28	0.42	0.72	PCI/G	=	
SU5-41D-066	F6C310406	GAMMA	Actinium 228	1.14	0.46	0.39	PCI/G	J	J01
SU5-41D-066	F6C310406	GAMMA	Americium 241	-0.1	0.13	0.22	PCI/G	UJ	T06, N02
SU5-41D-066	F6C310406	GAMMA	Bismuth 214	0.76	0.26	0.17	PCI/G	=	
SU5-41D-066	F6C310406	GAMMA	Bismuth-207	0.012	0.051	0.093	PCI/G	UJ	T06
SU5-41D-066	F6C310406	GAMMA	Bismuth-210M	-0.098	0.074	0.12	PCI/G	UJ	T06, N02
SU5-41D-066	F6C310406	GAMMA	Cesium 137	0.015	0.06	0.11	PCI/G	UJ	T06
SU5-41D-066	F6C310406	GAMMA	Cobalt 60	-0.019	0.078	0.14	PCI/G	UJ	T06, N02
SU5-41D-066	F6C310406	GAMMA	Lead 210	-0.7	1.5	2.6	PCI/G	UJ	T06, N02
SU5-41D-066	F6C310406	GAMMA	Lead 212	1.11	0.16	0.13	PCI/G	=	
SU5-41D-066	F6C310406	GAMMA	Potassium 40	30.8	3.8	1	PCI/G	=	
SU5-41D-066	F6C310406	GAMMA	Protactinium 231	1.1	1.3	2.3	PCI/G	UJ	T06, N02
SU5-41D-066	F6C310406	GAMMA	Radium (226)	0.76	0.26	0.17	PCI/G	J	T15
SU5-41D-066	F6C310406	GAMMA	Thorium 229	0.13	0.67	1.2	PCI/G	UJ	T06, N02
SU5-41D-066	F6C310406	GAMMA	Uranium 235	-0.64	0.69	1.1	PCI/G	UJ	T06
SU5-41D-066	F6C310406	GAMMA	Uranium 238	1.1	1.2	2.2	PCI/G	UJ	T06
SU5-41D-068	F6C310406	EML A-01-R	Plutonium-238	21.6	2.7	0.07	PCI/G	=	
SU5-41D-068	F6C310406	EML A-01-R	Plutonium-239/240	0.161	0.084	0.043	PCI/G	J	T04
SU5-41D-068	F6C310406	EML A-01-R	Thorium-228	0.39	0.14	0.07	PCI/G	=	
SU5-41D-068	F6C310406	EML A-01-R	Thorium-230	0.68	0.18	0.03	PCI/G	=	
SU5-41D-068	F6C310406	EML A-01-R	Thorium-232	0.5	0.15	0.05	PCI/G	=	
SU5-41D-068	F6C310406	GAMMA	Actinium 227	-0.04	0.19	0.28	PCI/G	UJ	T06, N02
SU5-41D-068	F6C310406	GAMMA	Actinium 228	0.22	0.16	0.33	PCI/G	UJ	J01, T05
SU5-41D-068	F6C310406	GAMMA	Americium 241	0.049	0.071	0.13	PCI/G	UJ	T06, N02
SU5-41D-068	F6C310406	GAMMA	Bismuth 214	0.43	0.11	0.23	PCI/G	=	
SU5-41D-068	F6C310406	GAMMA	Bismuth-207	0.003	0.03	0.055	PCI/G	UJ	T06
SU5-41D-068	F6C310406	GAMMA	Bismuth-210M	0.014	0.034	0.064	PCI/G	UJ	T06
SU5-41D-068	F6C310406	GAMMA	Cesium 137	0.023	0.036	0.072	PCI/G	UJ	T06
SU5-41D-068	F6C310406	GAMMA	Cobalt 60	0.0003	0.023	0.052	PCI/G	UJ	T06
SU5-41D-068	F6C310406	GAMMA	Lead 210	1.15	0.71	1.3	PCI/G	U	T05, N02
SU5-41D-068	F6C310406	GAMMA	Lead 212	0.262	0.077	0.097	PCI/G	=	
SU5-41D-068	F6C310406	GAMMA	Potassium 40	6.1	1.2	0.6	PCI/G	=	
SU5-41D-068	F6C310406	GAMMA	Protactinium 231	-0.04	0.66	1.2	PCI/G	UJ	T06, N02
SU5-41D-068	F6C310406	GAMMA	Radium (226)	0.43	0.11	0.23	PCI/G	J	T15
SU5-41D-068	F6C310406	GAMMA	Thorium 229	-0.05	0.37	0.65	PCI/G	UJ	T06, N02
SU5-41D-068	F6C310406	GAMMA	Uranium 235	-0.09	0.34	0.59	PCI/G	UJ	T06
SU5-41D-068	F6C310406	GAMMA	Uranium 238	0.18	0.61	1.1	PCI/G	UJ	T06
SU5-41D-069	F6C310406	EML A-01-R	Plutonium-238	4.15	0.62	0.08	PCI/G	=	
SU5-41D-069	F6C310406	EML A-01-R	Plutonium-239/240	0.091	0.064	0.052	PCI/G	J	T04
SU5-41D-069	F6C310406	EML A-01-R	Thorium-228	1.19	0.26	0.06	PCI/G	=	
SU5-41D-069	F6C310406	EML A-01-R	Thorium-230	1.08	0.24	0.04	PCI/G	=	
SU5-41D-069	F6C310406	EML A-01-R	Thorium-232	1.29	0.27	0.07	PCI/G	=	
SU5-41D-069	F6C310406	GAMMA	Actinium 227	0.22	0.35	0.57	PCI/G	UJ	T06, N02
SU5-41D-069	F6C310406	GAMMA	Actinium 228	1.23	0.46	0.38	PCI/G	J	J01

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-069	F6C310406	GAMMA	Americium 241	0.15	0.13	0.24	PCI/G	U	T05, N02
SU5-41D-069	F6C310406	GAMMA	Bismuth 214	0.8	0.26	0.18	PCI/G	=	
SU5-41D-069	F6C310406	GAMMA	Bismuth-207	-0.017	0.051	0.089	PCI/G	UJ	T06
SU5-41D-069	F6C310406	GAMMA	Bismuth-210M	0.023	0.075	0.13	PCI/G	UJ	T06, N02
SU5-41D-069	F6C310406	GAMMA	Cesium 137	-0.0006	0.071	0.13	PCI/G	UJ	T06
SU5-41D-069	F6C310406	GAMMA	Cobalt 60	0.003	0.063	0.12	PCI/G	UJ	T06, N02
SU5-41D-069	F6C310406	GAMMA	Lead 210	0.8	1.6	3	PCI/G	UJ	T06, N02
SU5-41D-069	F6C310406	GAMMA	Lead 212	1.24	0.24	0.19	PCI/G	=	
SU5-41D-069	F6C310406	GAMMA	Potassium 40	32.6	3.8	0.8	PCI/G	=	
SU5-41D-069	F6C310406	GAMMA	Protactinium 231	0.4	1.5	2.4	PCI/G	UJ	T06, N02
SU5-41D-069	F6C310406	GAMMA	Radium (226)	0.8	0.26	0.18	PCI/G	J	T15
SU5-41D-069	F6C310406	GAMMA	Thorium 229	0.41	0.71	1.3	PCI/G	UJ	T06, N02
SU5-41D-069	F6C310406	GAMMA	Uranium 235	0.23	0.65	1.2	PCI/G	UJ	T06
SU5-41D-069	F6C310406	GAMMA	Uranium 238	2	1.3	2.4	PCI/G	U	T05
SU5-41D-070	F6C310406	EML A-01-R	Plutonium-238	1.86	0.35	0.07	PCI/G	=	
SU5-41D-070	F6C310406	EML A-01-R	Plutonium-239/240	0.048	0.046	0.043	PCI/G	J	T04
SU5-41D-070	F6C310406	EML A-01-R	Thorium-228	0.67	0.18	0.07	PCI/G	=	
SU5-41D-070	F6C310406	EML A-01-R	Thorium-230	0.89	0.21	0.05	PCI/G	=	
SU5-41D-070	F6C310406	EML A-01-R	Thorium-232	0.53	0.16	0.03	PCI/G	=	
SU5-41D-070	F6C310406	GAMMA	Actinium 227	0.14	0.25	0.4	PCI/G	UJ	T06, N02
SU5-41D-070	F6C310406	GAMMA	Actinium 228	0.56	0.34	0.3	PCI/G	J	J01, T04
SU5-41D-070	F6C310406	GAMMA	Americium 241	0.054	0.089	0.16	PCI/G	UJ	T06, N02
SU5-41D-070	F6C310406	GAMMA	Bismuth 214	0.9	0.2	0.37	PCI/G	=	
SU5-41D-070	F6C310406	GAMMA	Bismuth-207	0.025	0.033	0.067	PCI/G	UJ	T06
SU5-41D-070	F6C310406	GAMMA	Bismuth-210M	-0.007	0.048	0.084	PCI/G	UJ	T06
SU5-41D-070	F6C310406	GAMMA	Cesium 137	0.081	0.055	0.11	PCI/G	U	T05
SU5-41D-070	F6C310406	GAMMA	Cobalt 60	-0.033	0.05	0.085	PCI/G	UJ	T06
SU5-41D-070	F6C310406	GAMMA	Lead 210	1.8	1.1	2.1	PCI/G	U	T05, N02
SU5-41D-070	F6C310406	GAMMA	Lead 212	0.52	0.12	0.14	PCI/G	=	
SU5-41D-070	F6C310406	GAMMA	Potassium 40	10.5	1.7	0.8	PCI/G	=	
SU5-41D-070	F6C310406	GAMMA	Protactinium 231	0.7	1	1.9	PCI/G	UJ	T06, N02
SU5-41D-070	F6C310406	GAMMA	Radium (226)	0.9	0.2	0.37	PCI/G	J	T15
SU5-41D-070	F6C310406	GAMMA	Thorium 229	0.07	0.48	0.86	PCI/G	UJ	T06, N02
SU5-41D-070	F6C310406	GAMMA	Uranium 235	-0.41	0.49	0.8	PCI/G	UJ	T06
SU5-41D-070	F6C310406	GAMMA	Uranium 238	0.6	0.84	1.5	PCI/G	UJ	T06
SU5-41D-071	F6C310406	EML A-01-R	Plutonium-238	26.3	3.2	0.08	PCI/G	=	
SU5-41D-071	F6C310406	EML A-01-R	Plutonium-239/240	0.175	0.09	0.028	PCI/G	J	T04
SU5-41D-071	F6C310406	EML A-01-R	Thorium-228	0.54	0.16	0.07	PCI/G	=	
SU5-41D-071	F6C310406	EML A-01-R	Thorium-230	0.86	0.21	0.03	PCI/G	=	
SU5-41D-071	F6C310406	EML A-01-R	Thorium-232	0.41	0.14	0.03	PCI/G	=	
SU5-41D-071	F6C310406	GAMMA	Actinium 227	0.13	0.18	0.29	PCI/G	UJ	T06, N02
SU5-41D-071	F6C310406	GAMMA	Actinium 228	0.24	0.16	0.33	PCI/G	UJ	J01, T05
SU5-41D-071	F6C310406	GAMMA	Americium 241	0.151	0.072	0.11	PCI/G	=	
SU5-41D-071	F6C310406	GAMMA	Bismuth 214	0.53	0.15	0.27	PCI/G	=	
SU5-41D-071	F6C310406	GAMMA	Bismuth-207	-0.007	0.027	0.048	PCI/G	UJ	T06
SU5-41D-071	F6C310406	GAMMA	Bismuth-210M	-0.034	0.035	0.057	PCI/G	UJ	T06
SU5-41D-071	F6C310406	GAMMA	Cesium 137	-0.034	0.04	0.072	PCI/G	UJ	T06
SU5-41D-071	F6C310406	GAMMA	Cobalt 60	-0.007	0.042	0.084	PCI/G	UJ	T06
SU5-41D-071	F6C310406	GAMMA	Lead 210	1.45	0.81	1.7	PCI/G	U	T05, N02
SU5-41D-071	F6C310406	GAMMA	Lead 212	0.317	0.068	0.092	PCI/G	=	
SU5-41D-071	F6C310406	GAMMA	Potassium 40	9.3	1.6	0.6	PCI/G	=	
SU5-41D-071	F6C310406	GAMMA	Protactinium 231	-0.33	0.64	1.1	PCI/G	UJ	T06, N02
SU5-41D-071	F6C310406	GAMMA	Radium (226)	0.53	0.15	0.27	PCI/G	J	T15
SU5-41D-071	F6C310406	GAMMA	Thorium 229	0.0004	0.37	0.66	PCI/G	UJ	T06, N02

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-071	F6C310406	GAMMA	Uranium 235	0.04	0.38	0.67	PCI/G	UJ	T06
SU5-41D-071	F6C310406	GAMMA	Uranium 238	0.63	0.64	1.2	PCI/G	UJ	T06
SU5-41D-072	F6C310406	EML A-01-R	Plutonium-238	6.77	0.96	0.07	PCI/G	=	
SU5-41D-072	F6C310406	EML A-01-R	Plutonium-239/240	0.095	0.068	0.029	PCI/G	J	T04
SU5-41D-072	F6C310406	EML A-01-R	Thorium-228	1.15	0.26	0.07	PCI/G	=	
SU5-41D-072	F6C310406	EML A-01-R	Thorium-230	1.02	0.24	0.05	PCI/G	=	
SU5-41D-072	F6C310406	EML A-01-R	Thorium-232	1.12	0.25	0.03	PCI/G	=	
SU5-41D-072	F6C310406	GAMMA	Actinium 227	0.18	0.31	0.51	PCI/G	UJ	T06, N02
SU5-41D-072	F6C310406	GAMMA	Actinium 228	1	0.4	0.45	PCI/G	J	J01
SU5-41D-072	F6C310406	GAMMA	Americium 241	0.27	0.16	0.19	PCI/G	J	T04
SU5-41D-072	F6C310406	GAMMA	Bismuth 214	0.6	0.21	0.42	PCI/G	=	
SU5-41D-072	F6C310406	GAMMA	Bismuth-207	0.016	0.05	0.095	PCI/G	UJ	T06
SU5-41D-072	F6C310406	GAMMA	Bismuth-210M	0.026	0.057	0.11	PCI/G	UJ	T06, N02
SU5-41D-072	F6C310406	GAMMA	Cesium 137	-0.015	0.056	0.1	PCI/G	UJ	T06
SU5-41D-072	F6C310406	GAMMA	Cobalt 60	-0.041	0.065	0.11	PCI/G	UJ	T06, N02
SU5-41D-072	F6C310406	GAMMA	Lead 210	1.5	1.4	2.8	PCI/G	U	T05, N02
SU5-41D-072	F6C310406	GAMMA	Lead 212	0.79	0.18	0.2	PCI/G	=	
SU5-41D-072	F6C310406	GAMMA	Potassium 40	22.8	3.3	1	PCI/G	=	
SU5-41D-072	F6C310406	GAMMA	Protactinium 231	-0.5	1.3	2.2	PCI/G	UJ	T06, N02
SU5-41D-072	F6C310406	GAMMA	Radium (226)	0.6	0.21	0.42	PCI/G	J	T15
SU5-41D-072	F6C310406	GAMMA	Thorium 229	-0.06	0.58	1	PCI/G	UJ	T06, N02
SU5-41D-072	F6C310406	GAMMA	Uranium 235	0.03	0.58	1.1	PCI/G	UJ	T06
SU5-41D-072	F6C310406	GAMMA	Uranium 238	0.2	1.2	2	PCI/G	UJ	T06
SU5-41D-073	F6C310406	EML A-01-R	Plutonium-238	2.82	0.47	0.09	PCI/G	=	
SU5-41D-073	F6C310406	EML A-01-R	Plutonium-239/240	0.032	0.044	0.058	PCI/G	UJ	T06
SU5-41D-073	F6C310406	EML A-01-R	Thorium-228	0.63	0.17	0.06	PCI/G	=	
SU5-41D-073	F6C310406	EML A-01-R	Thorium-230	0.79	0.19	0.05	PCI/G	=	
SU5-41D-073	F6C310406	EML A-01-R	Thorium-232	0.52	0.15	0.03	PCI/G	=	
SU5-41D-073	F6C310406	GAMMA	Actinium 227	0.8	0.28	0.5	PCI/G	=	
SU5-41D-073	F6C310406	GAMMA	Actinium 228	0.74	0.29	0.29	PCI/G	J	J01
SU5-41D-073	F6C310406	GAMMA	Americium 241	-0.056	0.096	0.16	PCI/G	UJ	T06, N02
SU5-41D-073	F6C310406	GAMMA	Bismuth 214	0.58	0.16	0.29	PCI/G	=	
SU5-41D-073	F6C310406	GAMMA	Bismuth-207	-0.007	0.034	0.059	PCI/G	UJ	T06
SU5-41D-073	F6C310406	GAMMA	Bismuth-210M	0.029	0.053	0.085	PCI/G	UJ	T06
SU5-41D-073	F6C310406	GAMMA	Cesium 137	0.041	0.044	0.088	PCI/G	UJ	T06
SU5-41D-073	F6C310406	GAMMA	Cobalt 60	-0.0004	0.033	0.065	PCI/G	UJ	T06
SU5-41D-073	F6C310406	GAMMA	Lead 210	1.2	1.2	1.6	PCI/G	U	T05, N02
SU5-41D-073	F6C310406	GAMMA	Lead 212	0.63	0.1	0.1	PCI/G	=	
SU5-41D-073	F6C310406	GAMMA	Potassium 40	9.4	1.8	0.8	PCI/G	=	
SU5-41D-073	F6C310406	GAMMA	Protactinium 231	0.46	0.92	1.6	PCI/G	UJ	T06, N02
SU5-41D-073	F6C310406	GAMMA	Radium (226)	0.58	0.16	0.29	PCI/G	J	T15
SU5-41D-073	F6C310406	GAMMA	Thorium 229	0.17	0.49	0.87	PCI/G	UJ	T06, N02
SU5-41D-073	F6C310406	GAMMA	Uranium 235	-0.25	0.52	0.86	PCI/G	UJ	T06
SU5-41D-073	F6C310406	GAMMA	Uranium 238	1.07	0.88	1.6	PCI/G	U	T05
SU5-41D-074	F6C310406	EML A-01-R	Plutonium-238	3.24	0.51	0.07	PCI/G	=	
SU5-41D-074	F6C310406	EML A-01-R	Plutonium-239/240	0.056	0.048	0.041	PCI/G	J	T04
SU5-41D-074	F6C310406	EML A-01-R	Thorium-228	0.72	0.19	0.07	PCI/G	=	
SU5-41D-074	F6C310406	EML A-01-R	Thorium-230	0.86	0.2	0.03	PCI/G	=	
SU5-41D-074	F6C310406	EML A-01-R	Thorium-232	0.63	0.17	0.03	PCI/G	=	
SU5-41D-074	F6C310406	GAMMA	Actinium 227	0.23	0.23	0.38	PCI/G	U	T05, N02
SU5-41D-074	F6C310406	GAMMA	Actinium 228	0.47	0.24	0.31	PCI/G	J	J01, T04
SU5-41D-074	F6C310406	GAMMA	Americium 241	0.01	0.081	0.14	PCI/G	UJ	T06, N02
SU5-41D-074	F6C310406	GAMMA	Bismuth 214	0.6	0.15	0.13	PCI/G	=	
SU5-41D-074	F6C310406	GAMMA	Bismuth-207	0.018	0.035	0.068	PCI/G	UJ	T06

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-074	F6C310406	GAMMA	Bismuth-210M	-0.04	0.045	0.074	PCI/G	UJ	T06
SU5-41D-074	F6C310406	GAMMA	Cesium 137	0.006	0.039	0.074	PCI/G	UJ	T06
SU5-41D-074	F6C310406	GAMMA	Cobalt 60	-0.021	0.045	0.081	PCI/G	UJ	T06
SU5-41D-074	F6C310406	GAMMA	Lead 210	1.2	1	1.9	PCI/G	U	T05, N02
SU5-41D-074	F6C310406	GAMMA	Lead 212	0.55	0.095	0.099	PCI/G	=	
SU5-41D-074	F6C310406	GAMMA	Potassium 40	11.2	1.7	0.4	PCI/G	=	
SU5-41D-074	F6C310406	GAMMA	Protactinium 231	-1.1	0.95	1.5	PCI/G	UJ	T06, N02
SU5-41D-074	F6C310406	GAMMA	Radium (226)	0.6	0.15	0.13	PCI/G	J	T15
SU5-41D-074	F6C310406	GAMMA	Thorium 229	-0.07	0.47	0.83	PCI/G	UJ	T06, N02
SU5-41D-074	F6C310406	GAMMA	Uranium 235	-0.07	0.47	0.83	PCI/G	UJ	T06
SU5-41D-074	F6C310406	GAMMA	Uranium 238	0.18	0.77	1.4	PCI/G	UJ	T06
SU5-41D-075	F6C310406	EML A-01-R	Plutonium-238	20.2	2.4	0.07	PCI/G	=	
SU5-41D-075	F6C310406	EML A-01-R	Plutonium-239/240	0.26	0.1	0.04	PCI/G	=	
SU5-41D-075	F6C310406	EML A-01-R	Thorium-228	0.83	0.21	0.07	PCI/G	=	
SU5-41D-075	F6C310406	EML A-01-R	Thorium-230	1.09	0.24	0.05	PCI/G	=	
SU5-41D-075	F6C310406	EML A-01-R	Thorium-232	0.72	0.19	0.04	PCI/G	=	
SU5-41D-075	F6C310406	GAMMA	Actinium 227	-0.14	0.24	0.32	PCI/G	UJ	T06, N02
SU5-41D-075	F6C310406	GAMMA	Actinium 228	0.64	0.3	0.23	PCI/G	J	J01
SU5-41D-075	F6C310406	GAMMA	Americium 241	0.1	0.11	0.15	PCI/G	UJ	T06, N02
SU5-41D-075	F6C310406	GAMMA	Bismuth 214	0.84	0.17	0.33	PCI/G	=	
SU5-41D-075	F6C310406	GAMMA	Bismuth-207	-0.006	0.034	0.06	PCI/G	UJ	T06
SU5-41D-075	F6C310406	GAMMA	Bismuth-210M	-0.004	0.044	0.078	PCI/G	UJ	T06
SU5-41D-075	F6C310406	GAMMA	Cesium 137	0.008	0.04	0.082	PCI/G	UJ	T06
SU5-41D-075	F6C310406	GAMMA	Cobalt 60	-0.012	0.055	0.1	PCI/G	UJ	T06
SU5-41D-075	F6C310406	GAMMA	Lead 210	0.27	0.97	1.8	PCI/G	UJ	T06, N02
SU5-41D-075	F6C310406	GAMMA	Lead 212	0.73	0.11	0.1	PCI/G	=	
SU5-41D-075	F6C310406	GAMMA	Potassium 40	16.9	2.1	0.7	PCI/G	=	
SU5-41D-075	F6C310406	GAMMA	Protactinium 231	-1.76	0.94	1.4	PCI/G	UJ	T06, N02
SU5-41D-075	F6C310406	GAMMA	Radium (226)	0.84	0.17	0.33	PCI/G	J	T15
SU5-41D-075	F6C310406	GAMMA	Thorium 229	0.2	0.43	0.78	PCI/G	UJ	T06, N02
SU5-41D-075	F6C310406	GAMMA	Uranium 235	-0.16	0.42	0.72	PCI/G	UJ	T06
SU5-41D-075	F6C310406	GAMMA	Uranium 238	0.82	0.78	1.5	PCI/G	U	T05
SU5-41D-076	F6C310406	EML A-01-R	Plutonium-238	-0.004	0.025	0.051	PCI/G	UJ	T06
SU5-41D-076	F6C310406	EML A-01-R	Plutonium-239/240	-0.004	0.025	0.051	PCI/G	UJ	T06
SU5-41D-076	F6C310406	EML A-01-R	Thorium-228	1.07	0.24	0.07	PCI/G	=	
SU5-41D-076	F6C310406	EML A-01-R	Thorium-230	1.47	0.29	0.06	PCI/G	=	
SU5-41D-076	F6C310406	EML A-01-R	Thorium-232	0.97	0.23	0.03	PCI/G	=	
SU5-41D-076	F6C310406	GAMMA	Actinium 227	0.21	0.37	0.6	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Actinium 228	0.91	0.44	0.38	PCI/G	J	J01
SU5-41D-076	F6C310406	GAMMA	Americium 241	0.04	0.14	0.24	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Bismuth 214	1.16	0.25	0.51	PCI/G	=	
SU5-41D-076	F6C310406	GAMMA	Bismuth-207	0.04	0.049	0.099	PCI/G	UJ	T06
SU5-41D-076	F6C310406	GAMMA	Bismuth-210M	-0.047	0.071	0.12	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Cesium 137	-0.012	0.064	0.12	PCI/G	UJ	T06
SU5-41D-076	F6C310406	GAMMA	Cobalt 60	0.053	0.063	0.14	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Lead 210	0.5	1.5	2.8	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Lead 212	0.96	0.17	0.16	PCI/G	=	
SU5-41D-076	F6C310406	GAMMA	Potassium 40	19.6	2.9	1.1	PCI/G	=	
SU5-41D-076	F6C310406	GAMMA	Protactinium 231	-0.6	1.4	2.4	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Radium (226)	1.16	0.25	0.51	PCI/G	J	T15
SU5-41D-076	F6C310406	GAMMA	Thorium 229	-0.6	0.74	1.2	PCI/G	UJ	T06, N02
SU5-41D-076	F6C310406	GAMMA	Uranium 235	0.1	0.65	1.2	PCI/G	UJ	T06
SU5-41D-076	F6C310406	GAMMA	Uranium 238	0.8	1.3	2.3	PCI/G	UJ	T06
SU5-41D-078	F6C310406	EML A-01-R	Plutonium-238	0.93	0.21	0.07	PCI/G	=	

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Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-078	F6C310406	EML A-01-R	Plutonium-239/240	0.018	0.032	0.025	PCI/G	UJ	T06
SU5-41D-078	F6C310406	EML A-01-R	Thorium-228	0.29	0.11	0.04	PCI/G	=	
SU5-41D-078	F6C310406	EML A-01-R	Thorium-230	0.55	0.16	0.07	PCI/G	=	
SU5-41D-078	F6C310406	EML A-01-R	Thorium-232	0.36	0.12	0.05	PCI/G	=	
SU5-41D-078	F6C310406	GAMMA	Actinium 227	0.42	0.21	0.36	PCI/G	J	T04
SU5-41D-078	F6C310406	GAMMA	Actinium 228	0.25	0.17	0.2	PCI/G	J	J01, T04
SU5-41D-078	F6C310406	GAMMA	Americium 241	-0.09	0.067	0.11	PCI/G	UJ	T06, N02
SU5-41D-078	F6C310406	GAMMA	Bismuth 214	0.38	0.12	0.11	PCI/G	=	
SU5-41D-078	F6C310406	GAMMA	Bismuth-207	0.011	0.024	0.046	PCI/G	UJ	T06
SU5-41D-078	F6C310406	GAMMA	Bismuth-210M	-0.04	0.036	0.057	PCI/G	UJ	T06
SU5-41D-078	F6C310406	GAMMA	Cesium 137	0.001	0.034	0.063	PCI/G	UJ	T06
SU5-41D-078	F6C310406	GAMMA	Cobalt 60	0.005	0.031	0.063	PCI/G	UJ	T06
SU5-41D-078	F6C310406	GAMMA	Lead 210	0.82	0.84	1.2	PCI/G	UJ	T06, N02
SU5-41D-078	F6C310406	GAMMA	Lead 212	0.298	0.06	0.081	PCI/G	=	
SU5-41D-078	F6C310406	GAMMA	Potassium 40	4.9	1.3	0.8	PCI/G	=	
SU5-41D-078	F6C310406	GAMMA	Protactinium 231	-0.03	0.65	1.1	PCI/G	UJ	T06, N02
SU5-41D-078	F6C310406	GAMMA	Radium (226)	0.38	0.12	0.11	PCI/G	J	T15
SU5-41D-078	F6C310406	GAMMA	Thorium 229	-0.007	0.37	0.64	PCI/G	UJ	T06, N02
SU5-41D-078	F6C310406	GAMMA	Uranium 235	-0.06	0.38	0.66	PCI/G	UJ	T06
SU5-41D-078	F6C310406	GAMMA	Uranium 238	0.28	0.62	1.1	PCI/G	UJ	T06
SU5-41D-079	F6C310406	EML A-01-R	Plutonium-238	1.2	0.24	0.06	PCI/G	=	
SU5-41D-079	F6C310406	EML A-01-R	Plutonium-239/240	0.016	0.026	0.038	PCI/G	UJ	T06
SU5-41D-079	F6C310406	EML A-01-R	Thorium-228	0.95	0.22	0.07	PCI/G	=	
SU5-41D-079	F6C310406	EML A-01-R	Thorium-230	0.65	0.17	0.02	PCI/G	=	
SU5-41D-079	F6C310406	EML A-01-R	Thorium-232	0.99	0.22	0.04	PCI/G	=	
SU5-41D-079	F6C310406	GAMMA	Actinium 227	0.22	0.32	0.51	PCI/G	UJ	T06, N02
SU5-41D-079	F6C310406	GAMMA	Actinium 228	0.96	0.41	0.34	PCI/G	J	J01
SU5-41D-079	F6C310406	GAMMA	Americium 241	-0.005	0.1	0.18	PCI/G	UJ	T06, N02
SU5-41D-079	F6C310406	GAMMA	Bismuth 214	0.7	0.19	0.19	PCI/G	=	
SU5-41D-079	F6C310406	GAMMA	Bismuth-207	-0.002	0.045	0.08	PCI/G	UJ	T06
SU5-41D-079	F6C310406	GAMMA	Bismuth-210M	-0.023	0.063	0.11	PCI/G	UJ	T06, N02
SU5-41D-079	F6C310406	GAMMA	Cesium 137	-0.032	0.062	0.1	PCI/G	UJ	T06
SU5-41D-079	F6C310406	GAMMA	Cobalt 60	-0.053	0.061	0.1	PCI/G	UJ	T06
SU5-41D-079	F6C310406	GAMMA	Lead 210	0.5	1.4	2.4	PCI/G	UJ	T06, N02
SU5-41D-079	F6C310406	GAMMA	Lead 212	1.2	0.19	0.17	PCI/G	=	
SU5-41D-079	F6C310406	GAMMA	Potassium 40	31.5	3.5	0.9	PCI/G	=	
SU5-41D-079	F6C310406	GAMMA	Protactinium 231	0.4	1.4	2.1	PCI/G	UJ	T06, N02
SU5-41D-079	F6C310406	GAMMA	Radium (226)	0.7	0.19	0.19	PCI/G	J	T15
SU5-41D-079	F6C310406	GAMMA	Thorium 229	0.07	0.64	1.1	PCI/G	UJ	T06, N02
SU5-41D-079	F6C310406	GAMMA	Uranium 235	0.16	0.65	1	PCI/G	UJ	T06
SU5-41D-079	F6C310406	GAMMA	Uranium 238	2.2	1	2	PCI/G	=	
SU5-41D-080	F6C310406	EML A-01-R	Plutonium-238	3.26	0.51	0.05	PCI/G	=	
SU5-41D-080	F6C310406	EML A-01-R	Plutonium-239/240	0.047	0.046	0.025	PCI/G	J	T04
SU5-41D-080	F6C310406	EML A-01-R	Thorium-228	0.85	0.2	0.06	PCI/G	=	
SU5-41D-080	F6C310406	EML A-01-R	Thorium-230	1.22	0.25	0.05	PCI/G	=	
SU5-41D-080	F6C310406	EML A-01-R	Thorium-232	1.02	0.23	0.03	PCI/G	=	
SU5-41D-080	F6C310406	GAMMA	Actinium 227	0.09	0.25	0.39	PCI/G	UJ	T06, N02
SU5-41D-080	F6C310406	GAMMA	Actinium 228	1.11	0.39	0.32	PCI/G	J	J01
SU5-41D-080	F6C310406	GAMMA	Americium 241	0.028	0.088	0.16	PCI/G	UJ	T06, N02
SU5-41D-080	F6C310406	GAMMA	Bismuth 214	1.15	0.22	0.13	PCI/G	=	
SU5-41D-080	F6C310406	GAMMA	Bismuth-207	0.011	0.038	0.071	PCI/G	UJ	T06
SU5-41D-080	F6C310406	GAMMA	Bismuth-210M	-0.024	0.051	0.089	PCI/G	UJ	T06
SU5-41D-080	F6C310406	GAMMA	Cesium 137	0.0008	0.054	0.1	PCI/G	UJ	T06
SU5-41D-080	F6C310406	GAMMA	Cobalt 60	0.033	0.057	0.12	PCI/G	UJ	T06, N02

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-080	F6C310406	GAMMA	Lead 210	0.4	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-080	F6C310406	GAMMA	Lead 212	0.88	0.14	0.14	PCI/G	=	
SU5-41D-080	F6C310406	GAMMA	Potassium 40	19.2	2.5	1	PCI/G	=	
SU5-41D-080	F6C310406	GAMMA	Protactinium 231	-0.2	1	1.8	PCI/G	UJ	T06, N02
SU5-41D-080	F6C310406	GAMMA	Radium (226)	1.15	0.22	0.13	PCI/G	J	T15
SU5-41D-080	F6C310406	GAMMA	Thorium 229	0.04	0.56	0.98	PCI/G	UJ	T06, N02
SU5-41D-080	F6C310406	GAMMA	Uranium 235	0.4	0.54	0.98	PCI/G	UJ	T06
SU5-41D-080	F6C310406	GAMMA	Uranium 238	0.22	0.83	1.5	PCI/G	UJ	T06
SU5-41D-081	F6C310406	EML A-01-R	Plutonium-238	0.171	0.084	0.055	PCI/G	=	
SU5-41D-081	F6C310406	EML A-01-R	Plutonium-239/240	0.018	0.031	0.024	PCI/G	UJ	T06
SU5-41D-081	F6C310406	EML A-01-R	Thorium-228	0.65	0.17	0.05	PCI/G	=	
SU5-41D-081	F6C310406	EML A-01-R	Thorium-230	0.95	0.21	0.04	PCI/G	=	
SU5-41D-081	F6C310406	EML A-01-R	Thorium-232	0.64	0.17	0.04	PCI/G	=	
SU5-41D-081	F6C310406	GAMMA	Actinium 227	-0.03	0.26	0.38	PCI/G	UJ	T06, N02
SU5-41D-081	F6C310406	GAMMA	Actinium 228	0.44	0.3	0.53	PCI/G	UJ	J01, T05
SU5-41D-081	F6C310406	GAMMA	Americium 241	-0.035	0.09	0.15	PCI/G	UJ	T06, N02
SU5-41D-081	F6C310406	GAMMA	Bismuth 214	0.73	0.17	0.14	PCI/G	=	
SU5-41D-081	F6C310406	GAMMA	Bismuth-207	-0.028	0.038	0.062	PCI/G	UJ	T06
SU5-41D-081	F6C310406	GAMMA	Bismuth-210M	-0.035	0.055	0.093	PCI/G	UJ	T06
SU5-41D-081	F6C310406	GAMMA	Cesium 137	-0.033	0.048	0.081	PCI/G	UJ	T06
SU5-41D-081	F6C310406	GAMMA	Cobalt 60	0.002	0.042	0.085	PCI/G	UJ	T06
SU5-41D-081	F6C310406	GAMMA	Lead 210	0.1	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-081	F6C310406	GAMMA	Lead 212	0.52	0.14	0.14	PCI/G	=	
SU5-41D-081	F6C310406	GAMMA	Potassium 40	13.2	2.1	1	PCI/G	=	
SU5-41D-081	F6C310406	GAMMA	Protactinium 231	-0.16	0.88	1.6	PCI/G	UJ	T06, N02
SU5-41D-081	F6C310406	GAMMA	Radium (226)	0.73	0.17	0.14	PCI/G	J	T15
SU5-41D-081	F6C310406	GAMMA	Thorium 229	0.21	0.52	0.94	PCI/G	UJ	T06, N02
SU5-41D-081	F6C310406	GAMMA	Uranium 235	0.12	0.51	0.92	PCI/G	UJ	T06
SU5-41D-081	F6C310406	GAMMA	Uranium 238	0.51	0.88	1.6	PCI/G	UJ	T06
SU5-41D-082	F6C310406	EML A-01-R	Plutonium-238	4.33	0.61	0.04	PCI/G	=	
SU5-41D-082	F6C310406	EML A-01-R	Plutonium-239/240	0.04	0.041	0.043	PCI/G	UJ	T06
SU5-41D-082	F6C310406	EML A-01-R	Thorium-228	0.65	0.18	0.06	PCI/G	=	
SU5-41D-082	F6C310406	EML A-01-R	Thorium-230	0.77	0.19	0.04	PCI/G	=	
SU5-41D-082	F6C310406	EML A-01-R	Thorium-232	0.72	0.18	0.04	PCI/G	=	
SU5-41D-082	F6C310406	GAMMA	Actinium 227	0.38	0.31	0.49	PCI/G	U	T05, N02
SU5-41D-082	F6C310406	GAMMA	Actinium 228	0.56	0.28	0.26	PCI/G	J	J01, T04
SU5-41D-082	F6C310406	GAMMA	Americium 241	-0.088	0.096	0.16	PCI/G	UJ	T06, N02
SU5-41D-082	F6C310406	GAMMA	Bismuth 214	0.5	0.16	0.28	PCI/G	=	
SU5-41D-082	F6C310406	GAMMA	Bismuth-207	0.013	0.035	0.065	PCI/G	UJ	T06
SU5-41D-082	F6C310406	GAMMA	Bismuth-210M	-0.027	0.051	0.086	PCI/G	UJ	T06
SU5-41D-082	F6C310406	GAMMA	Cesium 137	-0.027	0.043	0.073	PCI/G	UJ	T06
SU5-41D-082	F6C310406	GAMMA	Cobalt 60	-0.0005	0.046	0.088	PCI/G	UJ	T06
SU5-41D-082	F6C310406	GAMMA	Lead 210	1.2	1.1	1.6	PCI/G	U	T05, N02
SU5-41D-082	F6C310406	GAMMA	Lead 212	0.551	0.094	0.098	PCI/G	=	
SU5-41D-082	F6C310406	GAMMA	Potassium 40	16	2.1	0.7	PCI/G	=	
SU5-41D-082	F6C310406	GAMMA	Protactinium 231	0.3	1.1	1.6	PCI/G	UJ	T06, N02
SU5-41D-082	F6C310406	GAMMA	Radium (226)	0.5	0.16	0.28	PCI/G	J	T15
SU5-41D-082	F6C310406	GAMMA	Thorium 229	-0.39	0.46	0.76	PCI/G	UJ	T06, N02
SU5-41D-082	F6C310406	GAMMA	Uranium 235	0.09	0.51	0.9	PCI/G	UJ	T06
SU5-41D-082	F6C310406	GAMMA	Uranium 238	-0.44	0.85	1.5	PCI/G	UJ	T06
SU5-41D-083	F6C310406	EML A-01-R	Plutonium-238	0.098	0.07	0.064	PCI/G	J	T04
SU5-41D-083	F6C310406	EML A-01-R	Plutonium-239/240	-0.002	0.022	0.042	PCI/G	UJ	T06
SU5-41D-083	F6C310406	EML A-01-R	Thorium-228	1.1	0.24	0.06	PCI/G	=	
SU5-41D-083	F6C310406	EML A-01-R	Thorium-230	1.27	0.26	0.04	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-083	F6C310406	EML A-01-R	Thorium-232	1	0.22	0.03	PCI/G	=	
SU5-41D-083	F6C310406	GAMMA	Actinium 227	-0.02	0.32	0.47	PCI/G	UJ	T06, N02
SU5-41D-083	F6C310406	GAMMA	Actinium 228	0.98	0.35	0.34	PCI/G	J	J01
SU5-41D-083	F6C310406	GAMMA	Americium 241	-0.05	0.11	0.18	PCI/G	UJ	T06, N02
SU5-41D-083	F6C310406	GAMMA	Bismuth 214	0.92	0.25	0.16	PCI/G	=	
SU5-41D-083	F6C310406	GAMMA	Bismuth-207	0.001	0.045	0.082	PCI/G	UJ	T06
SU5-41D-083	F6C310406	GAMMA	Bismuth-210M	-0.03	0.068	0.12	PCI/G	UJ	T06, N02
SU5-41D-083	F6C310406	GAMMA	Cesium 137	-0.069	0.059	0.09	PCI/G	UJ	T06
SU5-41D-083	F6C310406	GAMMA	Cobalt 60	-0.027	0.059	0.1	PCI/G	UJ	T06
SU5-41D-083	F6C310406	GAMMA	Lead 210	1.4	1.2	2.3	PCI/G	U	T05, N02
SU5-41D-083	F6C310406	GAMMA	Lead 212	1.12	0.15	0.12	PCI/G	=	
SU5-41D-083	F6C310406	GAMMA	Potassium 40	20.4	2.6	0.8	PCI/G	=	
SU5-41D-083	F6C310406	GAMMA	Protactinium 231	0.8	1.3	2.1	PCI/G	UJ	T06, N02
SU5-41D-083	F6C310406	GAMMA	Radium (226)	0.92	0.25	0.16	PCI/G	J	T15
SU5-41D-083	F6C310406	GAMMA	Thorium 229	0.48	0.64	1.2	PCI/G	UJ	T06, N02
SU5-41D-083	F6C310406	GAMMA	Uranium 235	0.45	0.66	1.1	PCI/G	UJ	T06
SU5-41D-083	F6C310406	GAMMA	Uranium 238	0.7	1.1	1.9	PCI/G	UJ	T06
SU5-41D-084	F6C310406	EML A-01-R	Plutonium-238	0.6	0.17	0.08	PCI/G	=	
SU5-41D-084	F6C310406	EML A-01-R	Plutonium-239/240	0.01	0.027	0.026	PCI/G	UJ	T06
SU5-41D-084	F6C310406	EML A-01-R	Thorium-228	0.204	0.098	0.067	PCI/G	=	
SU5-41D-084	F6C310406	EML A-01-R	Thorium-230	0.49	0.15	0.04	PCI/G	=	
SU5-41D-084	F6C310406	EML A-01-R	Thorium-232	0.203	0.094	0.048	PCI/G	=	
SU5-41D-084	F6C310406	GAMMA	Actinium 227	0.04	0.14	0.23	PCI/G	UJ	T06, N02
SU5-41D-084	F6C310406	GAMMA	Actinium 228	0.17	0.13	0.28	PCI/G	UJ	J01, T05
SU5-41D-084	F6C310406	GAMMA	Americium 241	-0.04	0.044	0.074	PCI/G	UJ	T06
SU5-41D-084	F6C310406	GAMMA	Bismuth 214	0.46	0.11	0.23	PCI/G	=	
SU5-41D-084	F6C310406	GAMMA	Bismuth-207	0.017	0.023	0.046	PCI/G	UJ	T06
SU5-41D-084	F6C310406	GAMMA	Bismuth-210M	0.005	0.028	0.053	PCI/G	UJ	T06
SU5-41D-084	F6C310406	GAMMA	Cesium 137	-0.009	0.027	0.055	PCI/G	UJ	T06
SU5-41D-084	F6C310406	GAMMA	Cobalt 60	-0.021	0.027	0.05	PCI/G	UJ	T06
SU5-41D-084	F6C310406	GAMMA	Lead 210	-0.05	0.63	1.2	PCI/G	UJ	T06, N02
SU5-41D-084	F6C310406	GAMMA	Lead 212	0.166	0.046	0.064	PCI/G	=	
SU5-41D-084	F6C310406	GAMMA	Potassium 40	4.85	0.93	0.45	PCI/G	=	
SU5-41D-084	F6C310406	GAMMA	Protactinium 231	0.04	0.54	1	PCI/G	UJ	T06, N02
SU5-41D-084	F6C310406	GAMMA	Radium (226)	0.46	0.11	0.23	PCI/G	J	T15
SU5-41D-084	F6C310406	GAMMA	Thorium 229	0.09	0.29	0.54	PCI/G	UJ	T06, N02
SU5-41D-084	F6C310406	GAMMA	Uranium 235	-0.14	0.28	0.47	PCI/G	UJ	T06
SU5-41D-084	F6C310406	GAMMA	Uranium 238	0.49	0.47	0.94	PCI/G	U	T05
SU5-41D-085	F6C310406	EML A-01-R	Plutonium-238	1.28	0.27	0.06	PCI/G	=	
SU5-41D-085	F6C310406	EML A-01-R	Plutonium-239/240	0.039	0.042	0.043	PCI/G	UJ	T06
SU5-41D-085	F6C310406	EML A-01-R	Thorium-228	0.43	0.14	0.07	PCI/G	=	
SU5-41D-085	F6C310406	EML A-01-R	Thorium-230	0.66	0.18	0.04	PCI/G	=	
SU5-41D-085	F6C310406	EML A-01-R	Thorium-232	0.34	0.12	0.05	PCI/G	=	
SU5-41D-085	F6C310406	GAMMA	Actinium 227	-0.009	0.21	0.33	PCI/G	UJ	T06, N02
SU5-41D-085	F6C310406	GAMMA	Actinium 228	0.46	0.25	0.47	PCI/G	UJ	J01, T05
SU5-41D-085	F6C310406	GAMMA	Americium 241	0.114	0.075	0.15	PCI/G	U	T05, N02
SU5-41D-085	F6C310406	GAMMA	Bismuth 214	0.46	0.13	0.28	PCI/G	=	
SU5-41D-085	F6C310406	GAMMA	Bismuth-207	-0.008	0.029	0.052	PCI/G	UJ	T06
SU5-41D-085	F6C310406	GAMMA	Bismuth-210M	-0.054	0.043	0.066	PCI/G	UJ	T06
SU5-41D-085	F6C310406	GAMMA	Cesium 137	0.011	0.04	0.08	PCI/G	UJ	T06
SU5-41D-085	F6C310406	GAMMA	Cobalt 60	-0.007	0.039	0.077	PCI/G	UJ	T06
SU5-41D-085	F6C310406	GAMMA	Lead 210	1.2	1.1	1.6	PCI/G	U	T05, N02
SU5-41D-085	F6C310406	GAMMA	Lead 212	0.31	0.1	0.09	PCI/G	=	
SU5-41D-085	F6C310406	GAMMA	Potassium 40	5.5	1.4	1	PCI/G	=	

R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-085	F6C310406	GAMMA	Protactinium 231	-0.27	0.71	1.2	PCI/G	UJ	T06, N02
SU5-41D-085	F6C310406	GAMMA	Radium (226)	0.46	0.13	0.28	PCI/G	J	T15
SU5-41D-085	F6C310406	GAMMA	Thorium 229	0.06	0.45	0.81	PCI/G	UJ	T06, N02
SU5-41D-085	F6C310406	GAMMA	Uranium 235	-0.08	0.4	0.72	PCI/G	UJ	T06
SU5-41D-085	F6C310406	GAMMA	Uranium 238	0.65	0.76	1.4	PCI/G	UJ	T06
SU5-41D-086	F6C310408	EML A-01-R	Plutonium-238	3.64	0.54	0.07	PCI/G	=	
SU5-41D-086	F6C310408	EML A-01-R	Plutonium-239/240	0.018	0.031	0.024	PCI/G	UJ	T06
SU5-41D-086	F6C310408	EML A-01-R	Thorium-228	1.22	0.26	0.06	PCI/G	=	
SU5-41D-086	F6C310408	EML A-01-R	Thorium-230	1.37	0.28	0.05	PCI/G	=	
SU5-41D-086	F6C310408	EML A-01-R	Thorium-232	1.02	0.23	0.04	PCI/G	=	
SU5-41D-086	F6C310408	GAMMA	Actinium 227	0.16	0.25	0.4	PCI/G	UJ	T06, N02
SU5-41D-086	F6C310408	GAMMA	Actinium 228	0.97	0.42	0.33	PCI/G	=	
SU5-41D-086	F6C310408	GAMMA	Americium 241	0.014	0.096	0.17	PCI/G	UJ	T06, N02
SU5-41D-086	F6C310408	GAMMA	Bismuth 214	1.07	0.21	0.15	PCI/G	=	
SU5-41D-086	F6C310408	GAMMA	Bismuth-207	0.03	0.043	0.083	PCI/G	UJ	T06
SU5-41D-086	F6C310408	GAMMA	Bismuth-210M	-0.017	0.052	0.092	PCI/G	UJ	T06
SU5-41D-086	F6C310408	GAMMA	Cesium 137	-0.053	0.051	0.088	PCI/G	UJ	T06
SU5-41D-086	F6C310408	GAMMA	Cobalt 60	0.003	0.056	0.11	PCI/G	UJ	T06, N02
SU5-41D-086	F6C310408	GAMMA	Lead 210	1.1	1.1	2.1	PCI/G	U	T05, N02
SU5-41D-086	F6C310408	GAMMA	Lead 212	1.16	0.15	0.12	PCI/G	=	
SU5-41D-086	F6C310408	GAMMA	Potassium 40	22.9	2.7	0.6	PCI/G	=	
SU5-41D-086	F6C310408	GAMMA	Protactinium 231	-0.9	1.2	1.7	PCI/G	UJ	T06, N02
SU5-41D-086	F6C310408	GAMMA	Radium (226)	1.07	0.21	0.15	PCI/G	J	T15
SU5-41D-086	F6C310408	GAMMA	Thorium 229	-0.01	0.56	0.97	PCI/G	UJ	T06, N02
SU5-41D-086	F6C310408	GAMMA	Uranium 235	-0.12	0.53	0.91	PCI/G	UJ	T06
SU5-41D-086	F6C310408	GAMMA	Uranium 238	0.82	0.89	1.7	PCI/G	UJ	T06
SU5-41D-087	F6C310408	EML A-01-R	Plutonium-238	1.59	0.3	0.07	PCI/G	=	
SU5-41D-087	F6C310408	EML A-01-R	Plutonium-239/240	0.028	0.037	0.025	PCI/G	J	T04
SU5-41D-087	F6C310408	EML A-01-R	Thorium-228	0.89	0.21	0.05	PCI/G	=	
SU5-41D-087	F6C310408	EML A-01-R	Thorium-230	1.2	0.25	0.05	PCI/G	=	
SU5-41D-087	F6C310408	EML A-01-R	Thorium-232	0.88	0.21	0.04	PCI/G	=	
SU5-41D-087	F6C310408	GAMMA	Actinium 227	0.28	0.18	0.53	PCI/G	U	T05, N02
SU5-41D-087	F6C310408	GAMMA	Actinium 228	1.08	0.48	0.34	PCI/G	=	
SU5-41D-087	F6C310408	GAMMA	Americium 241	0.09	0.12	0.21	PCI/G	UJ	T06, N02
SU5-41D-087	F6C310408	GAMMA	Bismuth 214	1.08	0.26	0.19	PCI/G	=	
SU5-41D-087	F6C310408	GAMMA	Bismuth-207	-0.024	0.045	0.076	PCI/G	UJ	T06
SU5-41D-087	F6C310408	GAMMA	Bismuth-210M	-0.008	0.062	0.11	PCI/G	UJ	T06, N02
SU5-41D-087	F6C310408	GAMMA	Cesium 137	-0.0008	0.053	0.099	PCI/G	UJ	T06
SU5-41D-087	F6C310408	GAMMA	Cobalt 60	-0.011	0.048	0.093	PCI/G	UJ	T06
SU5-41D-087	F6C310408	GAMMA	Lead 210	1.7	1.5	2.9	PCI/G	U	T05, N02
SU5-41D-087	F6C310408	GAMMA	Lead 212	0.91	0.16	0.18	PCI/G	=	
SU5-41D-087	F6C310408	GAMMA	Potassium 40	15.9	2.5	1.1	PCI/G	=	
SU5-41D-087	F6C310408	GAMMA	Protactinium 231	-0.02	1.3	2.2	PCI/G	UJ	T06, N02
SU5-41D-087	F6C310408	GAMMA	Radium (226)	1.08	0.26	0.19	PCI/G	J	T15
SU5-41D-087	F6C310408	GAMMA	Thorium 229	0.18	0.68	1.2	PCI/G	UJ	T06, N02
SU5-41D-087	F6C310408	GAMMA	Uranium 235	0.12	0.63	1.1	PCI/G	UJ	T06
SU5-41D-087	F6C310408	GAMMA	Uranium 238	1.3	1.2	2.1	PCI/G	U	T05
SU5-41D-088	F6C310408	EML A-01-R	Plutonium-238	0.222	0.091	0.037	PCI/G	=	
SU5-41D-088	F6C310408	EML A-01-R	Plutonium-239/240	0.007	0.019	0.037	PCI/G	UJ	T06
SU5-41D-088	F6C310408	EML A-01-R	Thorium-228	0.164	0.091	0.074	PCI/G	J	T04
SU5-41D-088	F6C310408	EML A-01-R	Thorium-230	0.66	0.18	0.06	PCI/G	=	
SU5-41D-088	F6C310408	EML A-01-R	Thorium-232	0.25	0.1	0.05	PCI/G	=	
SU5-41D-088	F6C310408	GAMMA	Actinium 227	0.43	0.17	0.3	PCI/G	=	
SU5-41D-088	F6C310408	GAMMA	Actinium 228	0.12	0.13	0.24	PCI/G	UJ	T06

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R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-088	F6C310408	GAMMA	Americium 241	-0.082	0.06	0.096	PCI/G	UJ	T06
SU5-41D-088	F6C310408	GAMMA	Bismuth 214	0.34	0.13	0.09	PCI/G	=	
SU5-41D-088	F6C310408	GAMMA	Bismuth-207	-0.003	0.025	0.045	PCI/G	UJ	T06
SU5-41D-088	F6C310408	GAMMA	Bismuth-210M	-0.022	0.034	0.057	PCI/G	UJ	T06
SU5-41D-088	F6C310408	GAMMA	Cesium 137	-0.014	0.028	0.047	PCI/G	UJ	T06
SU5-41D-088	F6C310408	GAMMA	Cobalt 60	0.039	0.035	0.077	PCI/G	U	T05
SU5-41D-088	F6C310408	GAMMA	Lead 210	0.61	0.75	1.4	PCI/G	UJ	T06, N02
SU5-41D-088	F6C310408	GAMMA	Lead 212	0.231	0.049	0.063	PCI/G	=	
SU5-41D-088	F6C310408	GAMMA	Potassium 40	6	1.1	0.4	PCI/G	=	
SU5-41D-088	F6C310408	GAMMA	Protactinium 231	0.25	0.62	1.1	PCI/G	UJ	T06, N02
SU5-41D-088	F6C310408	GAMMA	Radium (226)	0.34	0.13	0.09	PCI/G	J	T15
SU5-41D-088	F6C310408	GAMMA	Thorium 229	-0.09	0.32	0.55	PCI/G	UJ	T06, N02
SU5-41D-088	F6C310408	GAMMA	Uranium 235	0.14	0.33	0.59	PCI/G	UJ	T06
SU5-41D-088	F6C310408	GAMMA	Uranium 238	0.49	0.56	1	PCI/G	UJ	T06
SU5-41D-089	F6C310408	EML A-01-R	Plutonium-238	0.3	0.11	0.05	PCI/G	=	
SU5-41D-089	F6C310408	EML A-01-R	Plutonium-239/240	0.004	0.021	0.045	PCI/G	UJ	T06
SU5-41D-089	F6C310408	EML A-01-R	Thorium-228	1.08	0.25	0.09	PCI/G	=	
SU5-41D-089	F6C310408	EML A-01-R	Thorium-230	1.86	0.35	0.06	PCI/G	=	
SU5-41D-089	F6C310408	EML A-01-R	Thorium-232	0.99	0.23	0.06	PCI/G	=	
SU5-41D-089	F6C310408	GAMMA	Actinium 227	-0.01	0.26	0.38	PCI/G	UJ	T06, N02
SU5-41D-089	F6C310408	GAMMA	Actinium 228	1.02	0.4	0.26	PCI/G	=	
SU5-41D-089	F6C310408	GAMMA	Americium 241	0.049	0.089	0.16	PCI/G	UJ	T06, N02
SU5-41D-089	F6C310408	GAMMA	Bismuth 214	1.03	0.25	0.18	PCI/G	=	
SU5-41D-089	F6C310408	GAMMA	Bismuth-207	-0.013	0.038	0.065	PCI/G	UJ	T06
SU5-41D-089	F6C310408	GAMMA	Bismuth-210M	-0.011	0.05	0.089	PCI/G	UJ	T06
SU5-41D-089	F6C310408	GAMMA	Cesium 137	0.038	0.053	0.11	PCI/G	UJ	T06
SU5-41D-089	F6C310408	GAMMA	Cobalt 60	0.035	0.056	0.12	PCI/G	UJ	T06, N02
SU5-41D-089	F6C310408	GAMMA	Lead 210	0.2	1.1	2	PCI/G	UJ	T06, N02
SU5-41D-089	F6C310408	GAMMA	Lead 212	1.14	0.15	0.12	PCI/G	=	
SU5-41D-089	F6C310408	GAMMA	Potassium 40	18.7	2.4	0.8	PCI/G	=	
SU5-41D-089	F6C310408	GAMMA	Protactinium 231	-1.4	1	1.6	PCI/G	UJ	T06, N02
SU5-41D-089	F6C310408	GAMMA	Radium (226)	1.03	0.25	0.18	PCI/G	J	T15
SU5-41D-089	F6C310408	GAMMA	Thorium 229	-0.21	0.53	0.9	PCI/G	UJ	T06, N02
SU5-41D-089	F6C310408	GAMMA	Uranium 235	-0.69	0.59	0.89	PCI/G	UJ	T06
SU5-41D-089	F6C310408	GAMMA	Uranium 238	1.27	0.93	1.8	PCI/G	U	T05
SU5-41D-090	F6C310408	EML A-01-R	Plutonium-238	0.51	0.15	0.06	PCI/G	=	
SU5-41D-090	F6C310408	EML A-01-R	Plutonium-239/240	-0.002	0.02	0.039	PCI/G	UJ	T06
SU5-41D-090	F6C310408	EML A-01-R	Thorium-228	0.79	0.21	0.08	PCI/G	=	
SU5-41D-090	F6C310408	EML A-01-R	Thorium-230	0.89	0.22	0.07	PCI/G	=	
SU5-41D-090	F6C310408	EML A-01-R	Thorium-232	0.41	0.15	0.07	PCI/G	=	
SU5-41D-090	F6C310408	GAMMA	Actinium 227	-0.008	0.25	0.39	PCI/G	UJ	T06, N02
SU5-41D-090	F6C310408	GAMMA	Actinium 228	0.57	0.26	0.27	PCI/G	=	
SU5-41D-090	F6C310408	GAMMA	Americium 241	0.11	0.091	0.17	PCI/G	U	T05, N02
SU5-41D-090	F6C310408	GAMMA	Bismuth 214	0.65	0.19	0.18	PCI/G	=	
SU5-41D-090	F6C310408	GAMMA	Bismuth-207	0.019	0.039	0.075	PCI/G	UJ	T06
SU5-41D-090	F6C310408	GAMMA	Bismuth-210M	-0.013	0.055	0.095	PCI/G	UJ	T06
SU5-41D-090	F6C310408	GAMMA	Cesium 137	-0.007	0.044	0.082	PCI/G	UJ	T06
SU5-41D-090	F6C310408	GAMMA	Cobalt 60	-0.004	0.044	0.088	PCI/G	UJ	T06
SU5-41D-090	F6C310408	GAMMA	Lead 210	0.3	1	2	PCI/G	UJ	T06, N02
SU5-41D-090	F6C310408	GAMMA	Lead 212	0.48	0.13	0.13	PCI/G	=	
SU5-41D-090	F6C310408	GAMMA	Potassium 40	12.3	2	0.8	PCI/G	=	
SU5-41D-090	F6C310408	GAMMA	Protactinium 231	-1.4	1	1.6	PCI/G	UJ	T06, N02
SU5-41D-090	F6C310408	GAMMA	Radium (226)	0.65	0.19	0.18	PCI/G	J	T15
SU5-41D-090	F6C310408	GAMMA	Thorium 229	0.23	0.5	0.91	PCI/G	UJ	T06, N02

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R and V Table

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU5-41D-090	F6C310408	GAMMA	Uranium 235	-0.11	0.45	0.8	PCI/G	UJ	T06
SU5-41D-090	F6C310408	GAMMA	Uranium 238	0.96	0.86	1.6	PCI/G	U	T05
SU5-41D-091	F6C310408	EML A-01-R	Plutonium-238	0.151	0.092	0.083	PCI/G	J	T04
SU5-41D-091	F6C310408	EML A-01-R	Plutonium-239/240	0.004	0.026	0.055	PCI/G	UJ	T06
SU5-41D-091	F6C310408	EML A-01-R	Thorium-228	1.08	0.23	0.06	PCI/G	=	
SU5-41D-091	F6C310408	EML A-01-R	Thorium-230	0.98	0.22	0.03	PCI/G	=	
SU5-41D-091	F6C310408	EML A-01-R	Thorium-232	0.8	0.19	0.04	PCI/G	=	
SU5-41D-091	F6C310408	GAMMA	Actinium 227	1.27	0.35	0.61	PCI/G	=	
SU5-41D-091	F6C310408	GAMMA	Actinium 228	1.13	0.42	0.35	PCI/G	=	
SU5-41D-091	F6C310408	GAMMA	Americium 241	-0.13	0.12	0.19	PCI/G	UJ	T06, N02
SU5-41D-091	F6C310408	GAMMA	Bismuth 214	0.86	0.21	0.16	PCI/G	=	
SU5-41D-091	F6C310408	GAMMA	Bismuth-207	-0.012	0.044	0.075	PCI/G	UJ	T06
SU5-41D-091	F6C310408	GAMMA	Bismuth-210M	-0.004	0.059	0.1	PCI/G	UJ	T06
SU5-41D-091	F6C310408	GAMMA	Cesium 137	0.01	0.055	0.1	PCI/G	UJ	T06
SU5-41D-091	F6C310408	GAMMA	Cobalt 60	-0.014	0.057	0.1	PCI/G	UJ	T06
SU5-41D-091	F6C310408	GAMMA	Lead 210	0.3	1.3	2.4	PCI/G	UJ	T06, N02
SU5-41D-091	F6C310408	GAMMA	Lead 212	0.98	0.13	0.11	PCI/G	=	
SU5-41D-091	F6C310408	GAMMA	Potassium 40	25.3	3	0.9	PCI/G	=	
SU5-41D-091	F6C310408	GAMMA	Protactinium 231	0.3	1.3	1.9	PCI/G	UJ	T06, N02
SU5-41D-091	F6C310408	GAMMA	Radium (226)	0.86	0.21	0.16	PCI/G	J	T15
SU5-41D-091	F6C310408	GAMMA	Thorium 229	0.18	0.53	0.94	PCI/G	UJ	T06, N02
SU5-41D-091	F6C310408	GAMMA	Uranium 235	0.18	0.65	0.96	PCI/G	UJ	T06
SU5-41D-091	F6C310408	GAMMA	Uranium 238	-0.03	1	1.8	PCI/G	UJ	T06

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ATTACHMENT B

DATA REPORT, PRS 41 (exterior to WWTP), Salvage Area, Building 124 Footprint, March 2006, Rev 0, Final

DATA REPORT

PRS 41 (exterior to WWTP), Salvage Area, & Building 124 Footprint

March 2006

Rev. 0

Final

Department of Energy

Miamisburg Closure Project

CH2MHILL

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Acronyms

Ex	Excavation
pCi/g	picoCuries per gram
PRS	Potential Release Site
QC	quality control
RA	removal action
R&V	review and validation
SUD	Survey Unit Design
UGL	underground line
VSAP	Verification Sampling and Analysis Plan

1.0 PURPOSE

This Data Report provides documentation of sampling activities conducted in accordance with the Standard VSAP, Soils Verification Sampling and Analysis Plan [VSAP], Final, August 2004; required to close out Potential Release Site (PRS) 41 and the Salvage Area. The Salvage Area includes both the surface soil sampling conducted to verify the footprint of former Building 124 as well as the at-depth sampling conducted to verify the former salvage area. The location of PRS 41 and the Salvage Area are shown on Figure 1.

The purposes of this Data Report are to:

- document any variances to the VSAP/Post-Excavation (Ex) Survey Unit Designs (SUDs),
- present statistical and bias data (separately),
- present summary statistics and statistical analyses of the applicable data, including retrospective power curve, and
- provide documentation of data review and validation.

2.0 DOCUMENT ORGANIZATION / SUMMARY

This Data Report includes three areas as follows:

- isolated locations of Th-232 contamination within PRS 41,
- assessment of the former salvage area, and
- assessment of the footprint of former Building 124.

This Data Report does not include the 41 Ditch.

Unless otherwise specified as a variance, sampling and analyses were conducted in accordance with the VSAP and Post-Ex SUDs.

3.0 FIELD ACTIVITIES

3.1 PRS 41

Verification sampling locations for PRS 41 are shown on Figure 2 and occurred in May 2005 at the multiple isolated areas within PRS 41. The samples were field-screened by

a radiological control technician at the site and screened by the Mound Soil Screening Laboratory prior to shipment to the contract laboratory. Samples were submitted to Severn Trent St. Louis lab for gamma spec and isotopic thorium analyses. Results are reported in Table 1. Backfill information that was submitted to the Core Team in September 2005 is included in Appendix D.

3.2 SALVAGE AREA

At-Depth. Verification sampling locations for the Salvage Area are shown on Figure 4 and occurred in November 2005 to confirm that the historic remediation at the salvage area was sufficient. Samples were collected at-depth at the interval below the backfill interface. The samples were field-screened by a radiological control technician at the site and screened by the Mound Soil Screening Laboratory prior to shipment to the contract laboratory. At-depth samples were submitted to Severn Trent St. Louis lab for gamma spec and isotopic thorium and plutonium analyses. Results are reported in Table 2. Since no excavation was required, a Backfill Information Package was not prepared.

3.3 BUILDING 124 FOOTPRINT

Surface. Verification sampling locations for the Building 124 footprint and surrounding 15-foot perimeter are shown on Figure 3 and occurred in November 2005. Samples were collected on the soil surface to verify that the building operations did not impact the soil below at unacceptable levels. The samples were field-screened by a radiological control technician at the site and screened by the Mound Soil Screening Laboratory prior to shipment to the contract laboratory. Surface samples were submitted to Severn Trent St. Louis lab for gamma spec and isotopic thorium and plutonium analyses. Results are reported in Table 3. Since no excavation was required, a Backfill Information Package was not prepared.

4.0 DATA REVIEW / VALIDATION

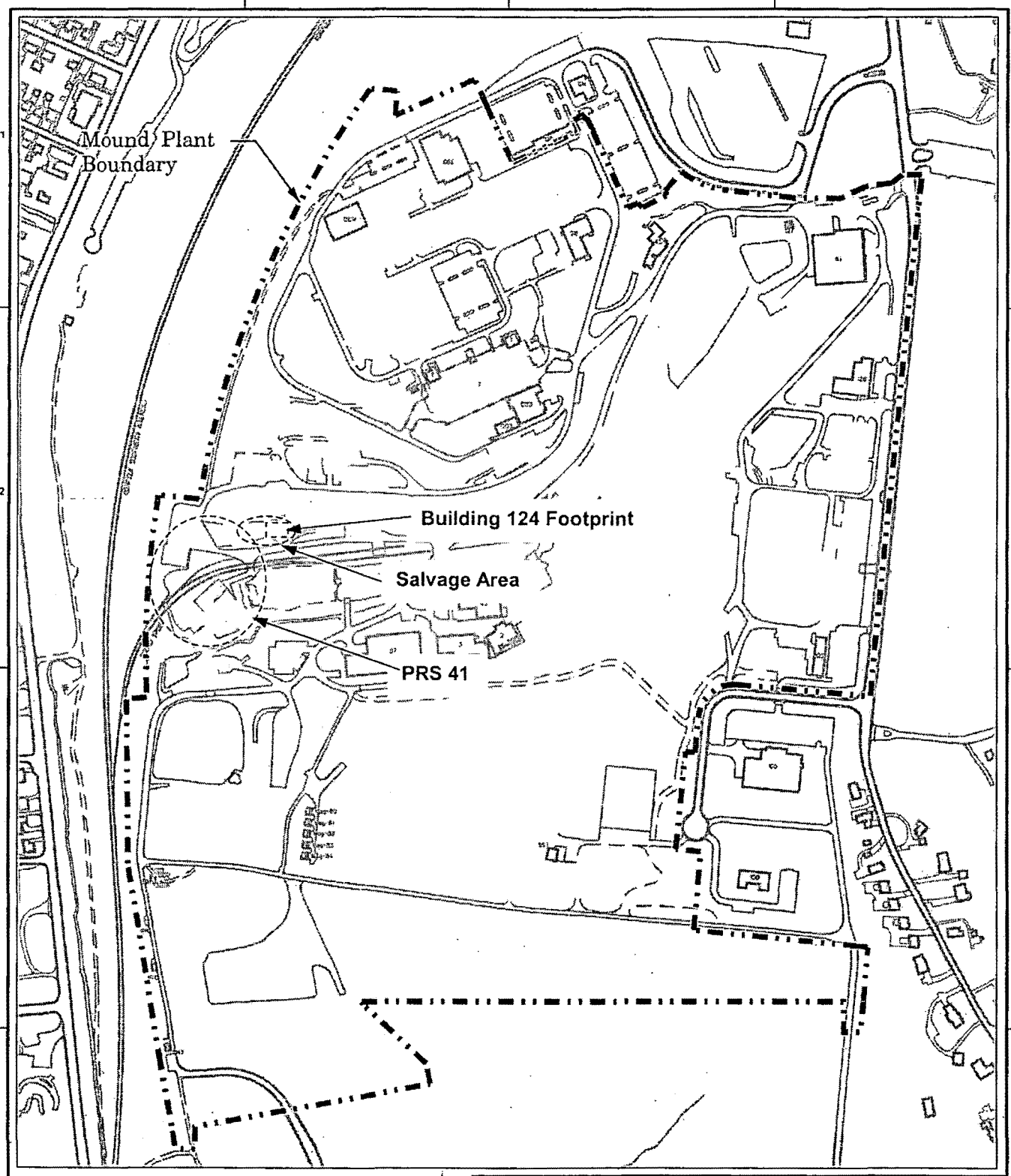
All data were reviewed and 10% of offsite data were validated.

Field and laboratory QC (quality control) were assessed as part of the data review and validation (R&V) process.

Documentation of review and validation (and related variances) is provided in Appendix E. Two R&V Reports were prepared for this report, one for PRS 41 and the other for the Salvage Area and Building 124 footprint. Review and validation supports that the data are usable.

APPENDIX A

FIGURES



Legend

Structures
Paved roadway
Unpaved roadway
Mound Plant boundary
Railroad

0 100 200 400 600 800 1000
Scale in Feet

MOUND
Environmental Restoration Geographic Information System

Figure 1:
Location of PRS 41,Salvage Area, & Building 124 Footprint

ISS	DATE	REVISION	BY	CHKR	ENG	LPMGR	APVD	#
	10/18/05		SSF					

DWG TYPE STE | PROJ ER-GIS | CAGEC | SCALE | SHEET 1 OF
STATUS MD-REL -**/**/** | ORIGIN MSTATION / J

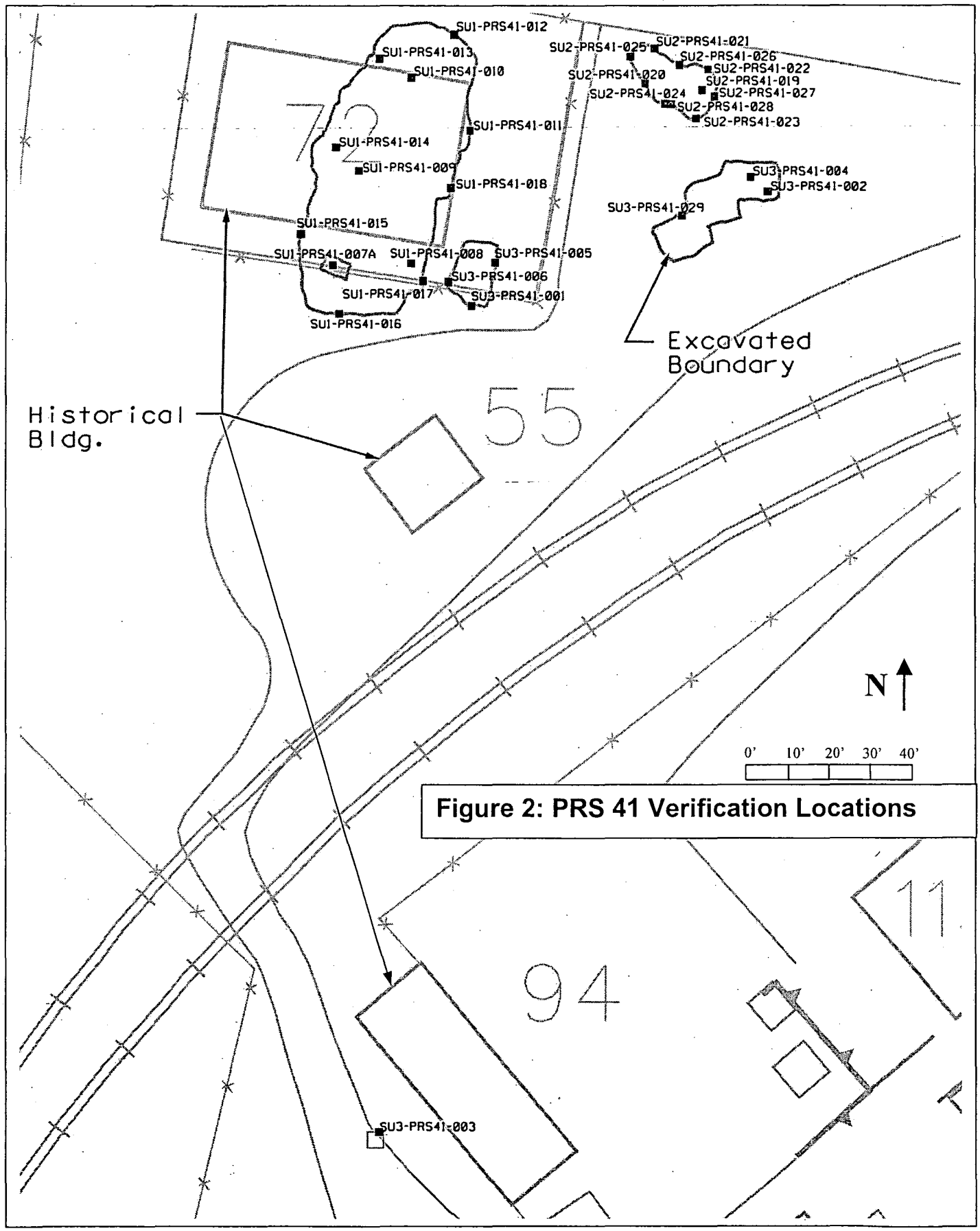


Figure 2: PRS 41 Verification Locations

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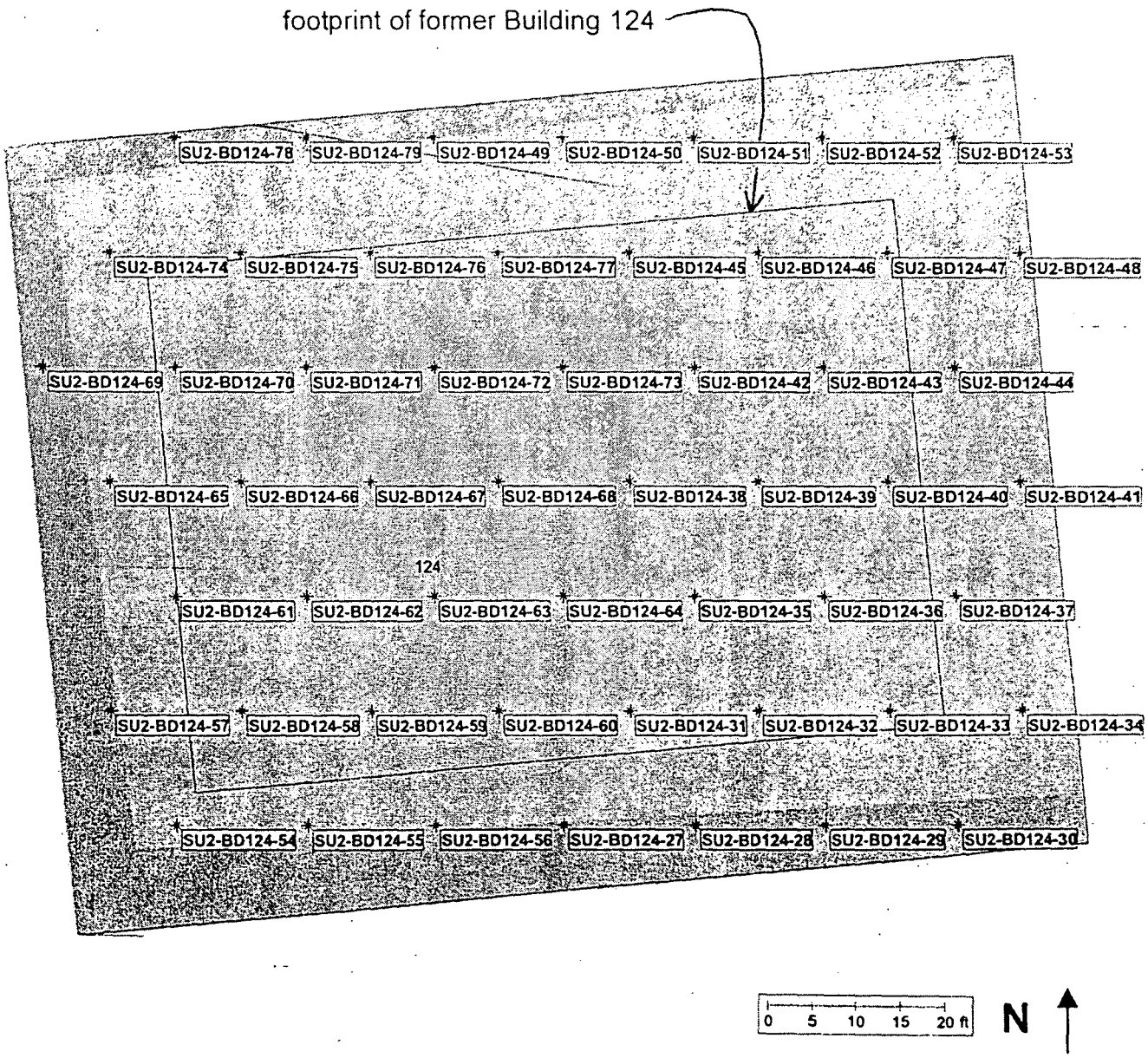

Figure 3: Building 124 Surface Soil Verification Locations

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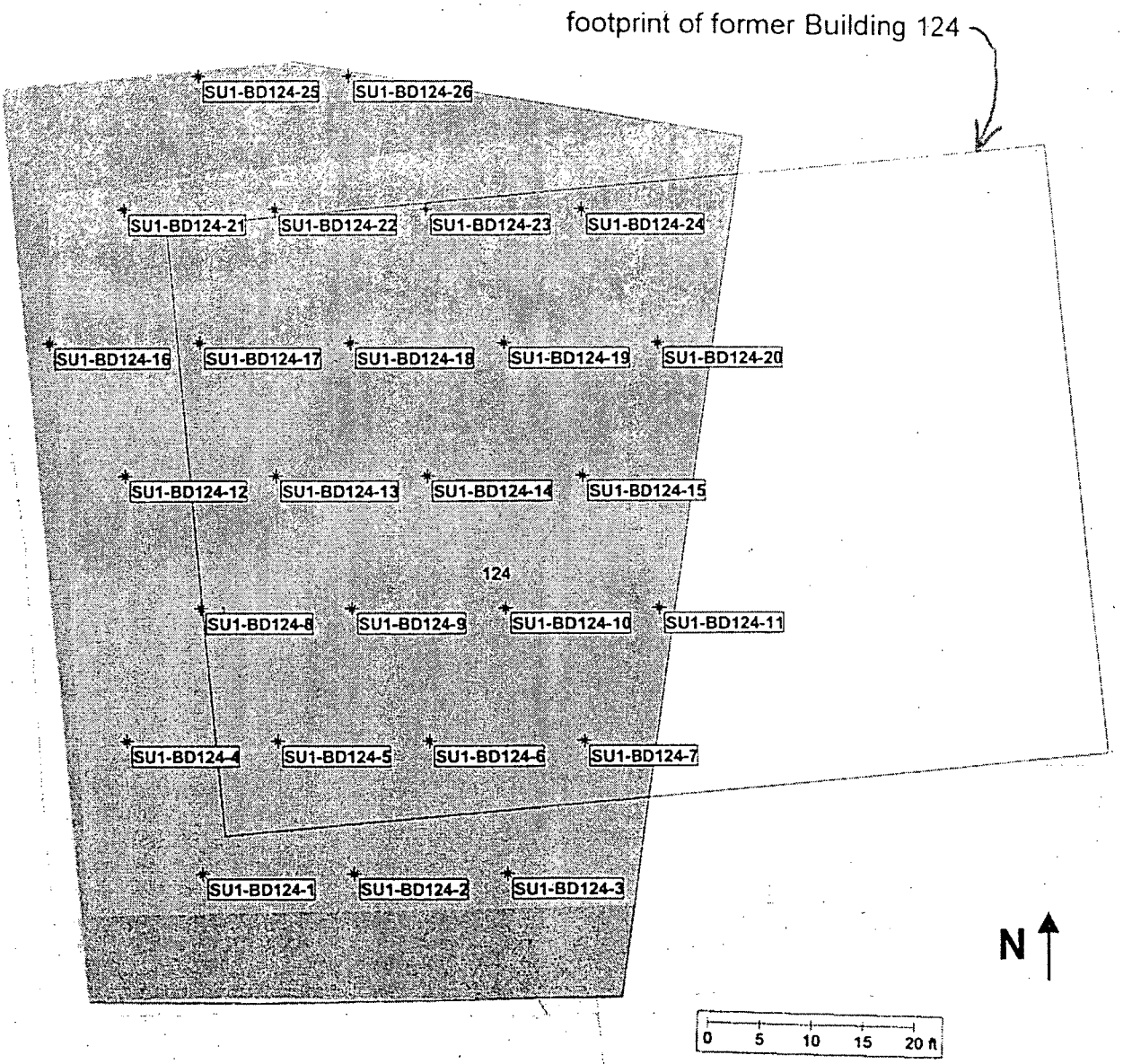

Figure 4: Salvage Area At-Depth Verification Locations

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APPENDIX B

TABLES

Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU3PRS41-01	20050526	0	0	Bismuth-214	1.17	0.48	0.07			1464047	598132.2
SU3PRS41-01	20050526	0	0	Cesium-137	3.8	0.045	0.045	UJ	U	1464047	598132.2
SU3PRS41-01	20050526	0	0	Lead-212	16.6	0.123	0.1	J		1464047	598132.2
SU3PRS41-01	20050526	0	0	Lead-214	8.9	0.36	0.1			1464047	598132.2
SU3PRS41-01	20050526	0	0	Potassium-40	47.8	5.4	0.6			1464047	598132.2
SU3PRS41-01	20050526	0	0	Thallium-208	0.498	0.092	0.051			1464047	598132.2
SU3PRS41-01	20050526	0	0	Thorium-228	2.6	0.242	0.019			1464047	598132.2
SU3PRS41-01	20050526	0	0	Thorium-230	2.8	0.58	0.01			1464047	598132.2
SU3PRS41-01	20050526	0	0	Thorium-232	2.1	0.399	0.011			1464047	598132.2
SU3PRS41-02	20050526	0	0	Bismuth-214	1.17	0.53	0.16			1464055	598127.6
SU3PRS41-02	20050526	0	0	Cesium-137	3.8	0.11	0.11	UJ	U	1464055	598127.6
SU3PRS41-02	20050526	0	0	Lead-212	16.6	0.74	0.16			1464055	598127.6
SU3PRS41-02	20050526	0	0	Lead-214	8.9	0.48	0.16			1464055	598127.6
SU3PRS41-02	20050526	0	0	Potassium-40	47.8	24.1	0.9			1464055	598127.6
SU3PRS41-02	20050526	0	0	Thallium-208	0.498	0.239	0.09			1464055	598127.6
SU3PRS41-02	20050526	0	0	Thorium-228	2.6	0.92	0.01			1464055	598127.6
SU3PRS41-02	20050526	0	0	Thorium-230	2.8	0.85	0.02			1464055	598127.6
SU3PRS41-02	20050526	0	0	Thorium-232	2.1	1.02	0.01			1464055	598127.6
SU3PRS41-03	20050525	0	0	Bismuth-214	1.17	0.35	0.13			1464066	598138.2
SU3PRS41-03	20050525	0	0	Cesium-137	3.8	0.065	0.065	UJ	U	1464066	598138.2
SU3PRS41-03	20050525	0	0	Lead-212	16.6	0.18	0.1	J		1464066	598138.2
SU3PRS41-03	20050525	0	0	Lead-214	8.9	0.45	0.08			1464066	598138.2
SU3PRS41-03	20050525	0	0	Potassium-40	47.8	8.6	0.4			1464066	598138.2
SU3PRS41-03	20050525	0	0	Thallium-208	0.498	0.085	0.06			1464066	598138.2
SU3PRS41-03	20050525	0	0	Thorium-228	2.6	0.43	0.03			1464066	598138.2
SU3PRS41-03	20050525	0	0	Thorium-230	2.8	0.54	0.01			1464066	598138.2
SU3PRS41-03	20050525	0	0	Thorium-232	2.1	0.327	0.015			1464066	598138.2
SU3PRS41-04	20050526	0	0	Actinium-228	1.93	0.66	0.31	J		1464070	598114.6
SU3PRS41-04	20050526	0	0	Bismuth-214	1.17	0.67	0.19			1464070	598114.6
SU3PRS41-04	20050526	0	0	Cesium-137	3.8	0.088	0.088	UJ	U	1464070	598114.6
SU3PRS41-04	20050526	0	0	Lead-212	16.6	0.68	0.16			1464070	598114.6
SU3PRS41-04	20050526	0	0	Lead-214	8.9	0.62	0.13			1464070	598114.6
SU3PRS41-04	20050526	0	0	Potassium-40	47.8	18.2	0.8			1464070	598114.6
SU3PRS41-04	20050526	0	0	Radium-228	2.1	0.66	0.3			1464070	598114.6
SU3PRS41-04	20050526	0	0	Thallium-208	0.498	0.258	0.076			1464070	598114.6
SU3PRS41-04	20050526	0	0	Thorium-228	2.6	0.82	0.03			1464070	598114.6
SU3PRS41-04	20050526	0	0	Thorium-230	2.8	1.15	0.02			1464070	598114.6
SU3PRS41-04	20050526	0	0	Thorium-232	2.1	0.93	0.02			1464070	598114.6
SU3PRS41-05	20050526	0	0	Bismuth-214	1.17	0.33	0.08			1464065	598100.4
SU3PRS41-05	20050526	0	0	Cesium-137	3.8	0.059	0.059	UJ	U	1464065	598100.4
SU3PRS41-05	20050526	0	0	Lead-212	16.6	0.164	0.1			1464065	598100.4
SU3PRS41-05	20050526	0	0	Lead-214	8.9	0.3	0.1			1464065	598100.4
SU3PRS41-05	20050526	0	0	Potassium-40	47.8	6	0.9			1464065	598100.4
SU3PRS41-05	20050526	0	0	Thallium-208	0.498	0.104	0.047			1464065	598100.4
SU3PRS41-05	20050526	0	0	Thorium-228	2.6	0.225	0.026			1464065	598100.4
SU3PRS41-05	20050526	0	0	Thorium-230	2.8	0.61	0.03			1464065	598100.4
SU3PRS41-05	20050526	0	0	Thorium-232	2.1	0.226	0.013			1464065	598100.4
SU3PRS41-06	20050526	0	0	Bismuth-214	1.17	0.64	0.1			1464042	598104.6
SU3PRS41-06	20050526	0	0	Cesium-137	3.8	0.08	0.08	UJ	U	1464042	598104.6
SU3PRS41-06	20050526	0	0	Lead-212	16.6	0.62	0.15			1464042	598104.6
SU3PRS41-06	20050526	0	0	Lead-214	8.9	0.65	0.15			1464042	598104.6

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Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU3PRS41-06	20050526	0	0	Potassium-40	47.8	11.2	0.9			1464042	598104.6
SU3PRS41-06	20050526	0	0	Thallium-208	0.498	0.253	0.074			1464042	598104.6
SU3PRS41-06	20050526	0	0	Thorium-228	2.6	1.17	0.02			1464042	598104.6
SU3PRS41-06	20050526	0	0	Thorium-230	2.8	1.15	0.02			1464042	598104.6
SU3PRS41-06	20050526	0	0	Thorium-232	2.1	1.08	0.01			1464042	598104.6
SU3PRS41-29	20050616	0	0	Thorium-228	2.6	1.03	0.03			1464122	59093.82
SU3PRS41-29	20050616	0	0	Thorium-230	2.8	1.83	0.01			1464122	59093.82
SU3PRS41-29	20050616	0	0	Thorium-232	2.1	1.02	0.02			1464122	59093.82
SU1PRS4107AD*	20050616	0	0	Thorium-228	2.6	0.91	0.03			1464036	598110.5
SU1PRS4107AD*	20050616	0	0	Thorium-230	2.8	0.92	0.01			1464036	598110.5
SU1PRS4107AD*	20050616	0	0	Thorium-232	2.1	0.74	0.02			1464036	598110.5
SU1PRS4107A*	20050616	0	0	Thorium-228	2.6	0.44	0.04			1464036	598110.5
SU1PRS4107A*	20050616	0	0	Thorium-230	2.8	0.6	0.01			1464036	598110.5
SU1PRS4107A*	20050616	0	0	Thorium-232	2.1	0.48	0.01			1464036	598110.5
SU1PRS41-08	20050526	0	0	Actinium-228	1.93	0.47	0.23	J		1464027	598088.8
SU1PRS41-08	20050526	0	0	Bismuth-214	1.17	0.53	0.15			1464027	598088.8
SU1PRS41-08	20050526	0	0	Cesium-137	3.8	0.087	0.087	UJ	U	1464027	598088.8
SU1PRS41-08	20050526	0	0	Lead-212	16.6	0.48	0.11			1464027	598088.8
SU1PRS41-08	20050526	0	0	Lead-214	8.9	0.58	0.11			1464027	598088.8
SU1PRS41-08	20050526	0	0	Potassium-40	47.8	8.7	0.7			1464027	598088.8
SU1PRS41-08	20050526	0	0	Radium-228	2.1	0.47	0.23			1464027	598088.8
SU1PRS41-08	20050526	0	0	Thallium-208	0.498	0.174	0.075			1464027	598088.8
SU1PRS41-08	20050526	0	0	Thorium-228	2.6	0.84	0.06			1464027	598088.8
SU1PRS41-08	20050526	0	0	Thorium-230	2.8	1.02	0.03			1464027	598088.8
SU1PRS41-08	20050526	0	0	Thorium-232	2.1	0.79	0.02			1464027	598088.8
SU1PRS41-08	20050526	0	0	Uranium-234	2.0	0.64	0.03	J		1464027	598088.8
SU1PRS41-08	20050526	0	0	Uranium-235	3.2	0.072	0.018	J	J	1464027	598088.8
SU1PRS41-08	20050526	0	0	Uranium-238	2.2	0.75	0.01			1464027	598088.8
SU1PRS41-09	20050526	0	0	Actinium-228	1.93	0.87	0.23			1464029	598081.7
SU1PRS41-09	20050526	0	0	Bismuth-214	1.17	0.77	0.15			1464029	598081.7
SU1PRS41-09	20050526	0	0	Cesium-137	3.8	0.087	0.087	UJ	U	1464029	598081.7
SU1PRS41-09	20050526	0	0	Lead-212	16.6	0.58	0.15			1464029	598081.7
SU1PRS41-09	20050526	0	0	Lead-214	8.9	0.52	0.14			1464029	598081.7
SU1PRS41-09	20050526	0	0	Potassium-40	47.8	10.7	0.9			1464029	598081.7
SU1PRS41-09	20050526	0	0	Radium-228	2.1	0.87	0.23			1464029	598081.7
SU1PRS41-09	20050526	0	0	Thallium-208	0.498	0.268	0.091			1464029	598081.7
SU1PRS41-09	20050526	0	0	Thorium-228	2.6	0.89	0.04			1464029	598081.7
SU1PRS41-09	20050526	0	0	Thorium-230	2.8	0.9	0.03			1464029	598081.7
SU1PRS41-09	20050526	0	0	Thorium-232	2.1	0.84	0.01			1464029	598081.7
SU1PRS41-09	20050526	0	0	Uranium-234	2.0	0.67	0.03	J		1464029	598081.7
SU1PRS41-09	20050526	0	0	Uranium-235	3.2	0.018	0.018	UJ	U	1464029	598081.7
SU1PRS41-09	20050526	0	0	Uranium-238	2.2	0.67	0.01			1464029	598081.7
SU1PRS41-10	20050526	0	0	Actinium-228	1.93	0.62	0.25			1464037	598069.3
SU1PRS41-10	20050526	0	0	Bismuth-214	1.17	0.48	0.14			1464037	598069.3
SU1PRS41-10	20050526	0	0	Cesium-137	3.8	0.091	0.091	U	U	1464037	598069.3
SU1PRS41-10	20050526	0	0	Lead-212	16.6	0.38	0.11			1464037	598069.3
SU1PRS41-10	20050526	0	0	Lead-214	8.9	0.47	0.11			1464037	598069.3
SU1PRS41-10	20050526	0	0	Potassium-40	47.8	8	0.8			1464037	598069.3
SU1PRS41-10	20050526	0	0	Radium-228	2.1	0.62	0.25			1464037	598069.3
SU1PRS41-10	20050526	0	0	Thallium-208	0.498	0.122	0.066	J		1464037	598069.3
SU1PRS41-10	20050526	0	0	Thorium-228	2.6	0.73	0.06			1464037	598069.3

Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU1PRS41-10	20050526	0	0	Thorium-230	2.8	0.89	0.04			1464037	598069.3
SU1PRS41-10	20050526	0	0	Thorium-232	2.1	0.77	0.04			1464037	598069.3
SU1PRS41-10	20050526	0	0	Uranium-234	2.0	0.87	0.03	J		1464037	598069.3
SU1PRS41-10	20050526	0	0	Uranium-235	3.2	0.096	0.03	J	J	1464037	598069.3
SU1PRS41-10	20050526	0	0	Uranium-238	2.2	0.77	0.03			1464037	598069.3
SU1PRS41-11	20050526	0	0	Actinium-228	1.93	0.92	0.29			1464055	598081.7
SU1PRS41-11	20050526	0	0	Bismuth-214	1.17	0.74	0.18			1464055	598081.7
SU1PRS41-11	20050526	0	0	Cesium-137	3.8	0.097	0.097	UJ	U	1464055	598081.7
SU1PRS41-11	20050526	0	0	Lead-212	16.6	0.56	0.18			1464055	598081.7
SU1PRS41-11	20050526	0	0	Lead-214	8.9	0.95	0.14			1464055	598081.7
SU1PRS41-11	20050526	0	0	Potassium-40	47.8	13.7	0.9			1464055	598081.7
SU1PRS41-11	20050526	0	0	Radium-228	2.1	0.92	0.29			1464055	598081.7
SU1PRS41-11	20050526	0	0	Thallium-208	0.498	0.227	0.094			1464055	598081.7
SU1PRS41-11	20050526	0	0	Thorium-228	2.6	0.87	0.05			1464055	598081.7
SU1PRS41-11	20050526	0	0	Thorium-230	2.8	1.23	0.02			1464055	598081.7
SU1PRS41-11	20050526	0	0	Thorium-232	2.1	0.69	0.01			1464055	598081.7
SU1PRS41-11	20050526	0	0	Uranium-234	2.0	0.83	0.01	J		1464055	598081.7
SU1PRS41-11	20050526	0	0	Uranium-235	3.2	0.032	0.017	J	J	1464055	598081.7
SU1PRS41-11	20050526	0	0	Uranium-238	2.2	0.93	0.02			1464055	598081.7
SU1PRS41-12D	20050526	0	0	Actinium-228	1.93	0.76	0.34			1464058	598077.3
SU1PRS41-12	20050526	0	0	Actinium-228	1.93	0.86	0.22			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Bismuth-214	1.17	0.66	0.17			1464058	598077.3
SU1PRS41-12	20050526	0	0	Bismuth-214	1.17	0.52	0.14			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Cesium-137	3.8	0.087	0.087	UJ	U	1464058	598077.3
SU1PRS41-12	20050526	0	0	Cesium-137	3.8	0.091	0.091	UJ	U	1464058	598077.3
SU1PRS41-12D	20050526	0	0	Lead-212	16.6	0.69	0.12			1464058	598077.3
SU1PRS41-12	20050526	0	0	Lead-212	16.6	0.75	0.15			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Lead-214	8.9	0.55	0.15			1464058	598077.3
SU1PRS41-12	20050526	0	0	Lead-214	8.9	0.64	0.12			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Potassium-40	47.8	9.6	0.8			1464058	598077.3
SU1PRS41-12	20050526	0	0	Potassium-40	47.8	11	0.8			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Radium-228	2.1	0.76	0.44			1464058	598077.3
SU1PRS41-12	20050526	0	0	Radium-228	2.1	0.86	0.22			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Thallium-208	0.498	0.305	0.077			1464058	598077.3
SU1PRS41-12	20050526	0	0	Thallium-208	0.498	0.247	0.09			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Thorium-228	2.6	1.22	0.04			1464058	598077.3
SU1PRS41-12	20050526	0	0	Thorium-228	2.6	0.86	0.05			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Thorium-230	2.8	1.09	0.03			1464058	598077.3
SU1PRS41-12	20050526	0	0	Thorium-230	2.8	0.81	0.01			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Thorium-232	2.1	1.07	0.03			1464058	598077.3
SU1PRS41-12	20050526	0	0	Thorium-232	2.1	0.9	0.01			1464058	598077.3
SU1PRS41-12D	20050526	0	0	Uranium-234	2.0	0.79	0.02	J		1464058	598077.3
SU1PRS41-12	20050526	0	0	Uranium-234	2.0	0.71	0.03	J		1464058	598077.3
SU1PRS41-12D	20050526	0	0	Uranium-235	3.2	0.061	0.03	J	J	1464058	598077.3
SU1PRS41-12	20050526	0	0	Uranium-235	3.2	0.054	0.034	J	J	1464058	598077.3
SU1PRS41-12D	20050526	0	0	Uranium-238	2.2	0.7	0.02			1464058	598077.3
SU1PRS41-12	20050526	0	0	Uranium-238	2.2	0.74	0.03			1464058	598077.3
SU1PRS41-13	20050526	0	0	Actinium-228	1.93	0.48	0.23	J		1464064	598077.2
SU1PRS41-13	20050526	0	0	Bismuth-214	1.17	0.46	0.15			1464064	598077.2
SU1PRS41-13	20050526	0	0	Cesium-137	3.8	0.088	0.088	UJ	U	1464064	598077.2
SU1PRS41-13	20050526	0	0	Lead-212	16.6	0.4	0.12			1464064	598077.2

Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU1PRS41-13	20050526	0	0	Lead-214	8.9	0.46	0.11			1464064	598077.2
SU1PRS41-13	20050526	0	0	Potassium-40	47.8	9.2	0.9			1464064	598077.2
SU1PRS41-13	20050526	0	0	Radium-228	2.1	0.48	0.23			1464064	598077.2
SU1PRS41-13	20050526	0	0	Thallium-208	0.498	0.13	0.07	J		1464064	598077.2
SU1PRS41-13	20050526	0	0	Thorium-228	2.6	0.62	0.05			1464064	598077.2
SU1PRS41-13	20050526	0	0	Thorium-230	2.8	1.04	0.03			1464064	598077.2
SU1PRS41-13	20050526	0	0	Thorium-232	2.1	0.53	0.02			1464064	598077.2
SU1PRS41-13	20050526	0	0	Uranium-234	2.0	0.81	0.01	J		1464064	598077.2
SU1PRS41-13	20050526	0	0	Uranium-235	3.2	0.081	0.018	J	J	1464064	598077.2
SU1PRS41-13	20050526	0	0	Uranium-238	2.2	0.76	0.02			1464064	598077.2
SU1PRS41-14	20050526	0	0	Actinium-228	1.93	0.6	0.3			1464076	598081.9
SU1PRS41-14	20050526	0	0	Bismuth-214	1.17	0.44	0.14			1464076	598081.9
SU1PRS41-14	20050526	0	0	Cesium-137	3.8	0.08	0.08	UJ	U	1464076	598081.9
SU1PRS41-14	20050526	0	0	Lead-212	16.6	0.45	0.13			1464076	598081.9
SU1PRS41-14	20050526	0	0	Lead-214	8.9	0.47	0.13			1464076	598081.9
SU1PRS41-14	20050526	0	0	Potassium-40	47.8	12.2	0.6			1464076	598081.9
SU1PRS41-14	20050526	0	0	Radium-228	2.1	0.6	0.32			1464076	598081.9
SU1PRS41-14	20050526	0	0	Thallium-208	0.498	0.171	0.068			1464076	598081.9
SU1PRS41-14	20050526	0	0	Thorium-228	2.6	0.74	0.04			1464076	598081.9
SU1PRS41-14	20050526	0	0	Thorium-230	2.8	1.14	0.03			1464076	598081.9
SU1PRS41-14	20050526	0	0	Thorium-232	2.1	0.94	0.03			1464076	598081.9
SU1PRS41-14	20050526	0	0	Uranium-234	2.0	0.8	0.03	J		1464076	598081.9
SU1PRS41-14	20050526	0	0	Uranium-235	3.2	0.038	0.02	J	J	1464076	598081.9
SU1PRS41-14	20050526	0	0	Uranium-238	2.2	0.91	0.02			1464076	598081.9
SU1PRS41-15	20050526	0	0	Actinium-228	1.93	0.84	0.33			1464070	598071.3
SU1PRS41-15	20050526	0	0	Bismuth-214	1.17	0.46	0.14			1464070	598071.3
SU1PRS41-15	20050526	0	0	Cesium-137	3.8	0.081	0.081	UJ	U	1464070	598071.3
SU1PRS41-15	20050526	0	0	Lead-212	16.6	0.64	0.15			1464070	598071.3
SU1PRS41-15	20050526	0	0	Lead-214	8.9	0.65	0.16			1464070	598071.3
SU1PRS41-15	20050526	0	0	Potassium-40	47.8	18	0.7			1464070	598071.3
SU1PRS41-15	20050526	0	0	Radium-228	2.1	0.84	0.29			1464070	598071.3
SU1PRS41-15	20050526	0	0	Thallium-208	0.498	0.144	0.11	J		1464070	598071.3
SU1PRS41-15	20050526	0	0	Thorium-228	2.6	1.13	0.04			1464070	598071.3
SU1PRS41-15	20050526	0	0	Thorium-230	2.8	1.01	0.02			1464070	598071.3
SU1PRS41-15	20050526	0	0	Thorium-232	2.1	0.84	0.29			1464070	598071.3
SU1PRS41-15	20050526	0	0	Thorium-232	2.1	1.09	0.02			1464070	598071.3
SU1PRS41-15	20050526	0	0	Uranium-234	2.0	0.84	0.03	J		1464070	598071.3
SU1PRS41-15	20050526	0	0	Uranium-235	3.2	0.039	0.017	J	J	1464070	598071.3
SU1PRS41-15	20050526	0	0	Uranium-238	2.2	0.87	0.02			1464070	598071.3
SU1PRS41-16	20050526	0	0	Actinium-228	1.93	1.16	0.37			1464116	598134.8
SU1PRS41-16	20050526	0	0	Bismuth-212	9.87	1.47	0.56			1464116	598134.8
SU1PRS41-16	20050526	0	0	Bismuth-214	1.17	1.1	0.2			1464116	598134.8
SU1PRS41-16	20050526	0	0	Cesium-137	3.8	0.1	0.1	UJ	U	1464116	598134.8
SU1PRS41-16	20050526	0	0	Lead-212	16.6	1	0.13			1464116	598134.8
SU1PRS41-16	20050526	0	0	Lead-214	8.9	1.03	0.16			1464116	598134.8
SU1PRS41-16	20050526	0	0	Potassium-40	47.8	15.7	0.9			1464116	598134.8
SU1PRS41-16	20050526	0	0	Radium-224	32.4	2.5	1.4	J		1464116	598134.8
SU1PRS41-16	20050526	0	0	Radium-228	2.1	1.16	0.35			1464116	598134.8
SU1PRS41-16	20050526	0	0	Thallium-208	0.498	0.33	0.08			1464116	598134.8
SU1PRS41-16	20050526	0	0	Thorium-228	2.6	1.05	0.05			1464116	598134.8
SU1PRS41-16	20050526	0	0	Thorium-230	2.8	1.22	0.02			1464116	598134.8

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Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU1PRS41-16	20050526	0	0	Thorium-232	2.1	0.96	0.03			1464116	598134.8
SU1PRS41-16	20050526	0	0	Uranium-234	2.0	0.83	0.02	J		1464116	598134.8
SU1PRS41-16	20050526	0	0	Uranium-235	3.2	0.088	0.025	J	J	1464116	598134.8
SU1PRS41-16	20050526	0	0	Uranium-238	2.2	0.86	0.01			1464116	598134.8
SU1PRS41-17	20050526	0	0	Actinium-228	1.93	1.29	0.31			1464110	598132.7
SU1PRS41-17	20050526	0	0	Bismuth-214	1.17	0.74	0.16			1464110	598132.7
SU1PRS41-17	20050526	0	0	Cesium-137	3.8	0.072	0.072	UJ	U	1464110	598132.7
SU1PRS41-17	20050526	0	0	Lead-212	16.6	1.21	0.12			1464110	598132.7
SU1PRS41-17	20050526	0	0	Lead-214	8.9	0.57	0.14			1464110	598132.7
SU1PRS41-17	20050526	0	0	Potassium-40	47.8	10.4	1			1464110	598132.7
SU1PRS41-17	20050526	0	0	Radium-228	2.1	1.29	0.31			1464110	598132.7
SU1PRS41-17	20050526	0	0	Thallium-208	0.498	0.43	0.08			1464110	598132.7
SU1PRS41-17	20050526	0	0	Thorium-228	2.6	1.71	0.05			1464110	598132.7
SU1PRS41-17	20050526	0	0	Thorium-230	2.8	1.1	0.02			1464110	598132.7
SU1PRS41-17	20050526	0	0	Thorium-232	2.1	1.73	0.02			1464110	598132.7
SU1PRS41-17	20050526	0	0	Uranium-234	2.0	0.9	0.03	J		1464110	598132.7
SU1PRS41-17	20050526	0	0	Uranium-235	3.2	0.038	0.017	J	J	1464110	598132.7
SU1PRS41-17	20050526	0	0	Uranium-238	2.2	1.03	0.02			1464110	598132.7
SU1PRS41-18	20050526	0	0	Bismuth-214	1.17	0.87	0.18			1464113	598126.1
SU1PRS41-18	20050526	0	0	Cesium-137	3.8	0.067	0.067	UJ	U	1464113	598126.1
SU1PRS41-18	20050526	0	0	Lead-212	16.6	0.65	0.13			1464113	598126.1
SU1PRS41-18	20050526	0	0	Lead-214	8.9	0.71	0.17			1464113	598126.1
SU1PRS41-18	20050526	0	0	Potassium-40	47.8	12.8	0.8			1464113	598126.1
SU1PRS41-18	20050526	0	0	Thallium-208	0.498	0.132	0.096	J		1464113	598126.1
SU1PRS41-18	20050526	0	0	Thorium-228	2.6	0.64	0.05			1464113	598126.1
SU1PRS41-18	20050526	0	0	Thorium-230	2.8	1.02	0.04			1464113	598126.1
SU1PRS41-18	20050526	0	0	Thorium-232	2.1	0.56	0.03			1464113	598126.1
SU1PRS41-18	20050526	0	0	Uranium-234	2.0	0.82	0.02	J		1464113	598126.1
SU1PRS41-18	20050526	0	0	Uranium-235	3.2	0.061	0.026	J	J	1464113	598126.1
SU1PRS41-18	20050526	0	0	Uranium-238	2.2	0.72	0.02			1464113	598126.1
SU2PRS41-19	20050526	0	0	Bismuth-214	1.17	0.47	0.12			1464118	598121.3
SU2PRS41-19	20050526	0	0	Cesium-137	3.8	0.072	0.072	UJ	U	1464118	598121.3
SU2PRS41-19	20050526	0	0	Lead-212	16.6	0.309	0.12			1464118	598121.3
SU2PRS41-19	20050526	0	0	Lead-214	8.9	0.58	0.13			1464118	598121.3
SU2PRS41-19	20050526	0	0	Potassium-40	47.8	9.4	0.6			1464118	598121.3
SU2PRS41-19	20050526	0	0	Thallium-208	0.498	0.168	0.059			1464118	598121.3
SU2PRS41-19	20050526	0	0	Thorium-228	2.6	0.46	0.06			1464118	598121.3
SU2PRS41-19	20050526	0	0	Thorium-230	2.8	0.76	0.03			1464118	598121.3
SU2PRS41-19	20050526	0	0	Thorium-232	2.1	0.41	0.03			1464118	598121.3
SU2PRS41-20	20050526	0	0	Bismuth-214	1.17	0.76	0.15			1464120	598121.1
SU2PRS41-20	20050526	0	0	Cesium-137	3.8	0.074	0.074	UJ	U	1464120	598121.1
SU2PRS41-20	20050526	0	0	Lead-212	16.6	0.42	0.13			1464120	598121.1
SU2PRS41-20	20050526	0	0	Lead-214	8.9	0.64	0.14			1464120	598121.1
SU2PRS41-20	20050526	0	0	Potassium-40	47.8	9.7	0.6			1464120	598121.1
SU2PRS41-20	20050526	0	0	Thallium-208	0.498	0.142	0.1			1464120	598121.1
SU2PRS41-20	20050526	0	0	Thorium-228	2.6	0.53	0.03			1464120	598121.1
SU2PRS41-20	20050526	0	0	Thorium-230	2.8	0.87	0.02			1464120	598121.1
SU2PRS41-20	20050526	0	0	Thorium-232	2.1	0.46	0.02			1464120	598121.1
SU2PRS41-21D	20050526	0	0	Bismuth-214	1.17	0.65	0.15			1464122	598130.7
SU2PRS41-21	20050526	0	0	Bismuth-214	1.17	0.53	0.13			1464122	598130.7
SU2PRS41-21D	20050526	0	0	Cesium-137	3.8	0.081	0.081	UJ	U	1464122	598130.7

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Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU2PRS41-21	20050526	0	0	Cesium-137	3.8	0.083	0.083	UJ	U	1464122	598130.7
SU2PRS41-21D	20050526	0	0	Lead-212	16.6	0.31	0.13			1464122	598130.7
SU2PRS41-21	20050526	0	0	Lead-212	16.6	0.34	0.12			1464122	598130.7
SU2PRS41-21D	20050526	0	0	Lead-214	8.9	0.61	0.12			1464122	598130.7
SU2PRS41-21	20050526	0	0	Lead-214	8.9	0.74	0.09			1464122	598130.7
SU2PRS41-21D	20050526	0	0	Potassium-40	47.8	7.8	0.8			1464122	598130.7
SU2PRS41-21	20050526	0	0	Potassium-40	47.8	10.2	0.8			1464122	598130.7
SU2PRS41-21	20050526	0	0	Thallium-208	0.498	0.123	0.068	J		1464122	598130.7
SU2PRS41-21D	20050526	0	0	Thorium-228	2.6	0.51	0.04			1464122	598130.7
SU2PRS41-21	20050526	0	0	Thorium-228	2.6	0.46	0.05			1464122	598130.7
SU2PRS41-21D	20050526	0	0	Thorium-230	2.8	0.97	0.03			1464122	598130.7
SU2PRS41-21	20050526	0	0	Thorium-230	2.8	0.83	0.04			1464122	598130.7
SU2PRS41-21D	20050526	0	0	Thorium-232	2.1	0.5	0.03			1464122	598130.7
SU2PRS41-21	20050526	0	0	Thorium-232	2.1	0.47	0.03			1464122	598130.7
SU2PRS41-22	20050526	0	0	Actinium-228	1.93	0.52	0.26	J		1464129	598129.7
SU2PRS41-22	20050526	0	0	Bismuth-214	1.17	0.74	0.13			1464129	598129.7
SU2PRS41-22	20050526	0	0	Cesium-137	3.8	0.096	0.096	U	U	1464129	598129.7
SU2PRS41-22	20050526	0	0	Lead-212	16.6	0.38	0.13			1464129	598129.7
SU2PRS41-22	20050526	0	0	Lead-214	8.9	0.75	0.12			1464129	598129.7
SU2PRS41-22	20050526	0	0	Potassium-40	47.8	9.2	1			1464129	598129.7
SU2PRS41-22	20050526	0	0	Radium-228	2.1	0.52	0.27	J		1464129	598129.7
SU2PRS41-22	20050526	0	0	Thorium-228	2.6	0.5	0.05			1464129	598129.7
SU2PRS41-22	20050526	0	0	Thorium-230	2.8	1.03	0.02			1464129	598129.7
SU2PRS41-22	20050526	0	0	Thorium-232	2.1	0.48	0.03			1464129	598129.7
SU2PRS41-23	20050526	0	0	Bismuth-214	1.17	0.46	0.15			1464127	598124.6
SU2PRS41-23	20050526	0	0	Cesium-137	3.8	0.062	0.062	UJ	U	1464127	598124.6
SU2PRS41-23	20050526	0	0	Lead-212	16.6	0.4	0.18			1464127	598124.6
SU2PRS41-23	20050526	0	0	Lead-214	8.9	0.61	0.14			1464127	598124.6
SU2PRS41-23	20050526	0	0	Potassium-40	47.8	12.4	0.8			1464127	598124.6
SU2PRS41-23	20050526	0	0	Thallium-208	0.498	0.161	0.07			1464127	598124.6
SU2PRS41-23	20050526	0	0	Thorium-228	2.6	0.58	0.03			1464127	598124.6
SU2PRS41-23	20050526	0	0	Thorium-230	2.8	0.92	0.02			1464127	598124.6
SU2PRS41-23	20050526	0	0	Thorium-232	2.1	0.47	0.02			1464127	598124.6
SU2PRS41-24	20050526	0	0	Bismuth-214	1.17	0.49	0.12			1464131	598123.1
SU2PRS41-24	20050526	0	0	Cesium-137	3.8	0.079	0.079	UJ	U	1464131	598123.1
SU2PRS41-24	20050526	0	0	Lead-212	16.6	0.336	0.094			1464131	598123.1
SU2PRS41-24	20050526	0	0	Lead-214	8.9	0.41	0.1			1464131	598123.1
SU2PRS41-24	20050526	0	0	Potassium-40	47.8	7.5	0.5			1464131	598123.1
SU2PRS41-24	20050526	0	0	Thorium-228	2.6	0.68	0.04			1464131	598123.1
SU2PRS41-24	20050526	0	0	Thorium-230	2.8	0.84	0.02			1464131	598123.1
SU2PRS41-24	20050526	0	0	Thorium-232	2.1	0.65	0.02			1464131	598123.1
SU2PRS41-25	20050526	0	0	Actinium-228	1.93	0.26	0.24	J		1464126	598117.5
SU2PRS41-25	20050526	0	0	Bismuth-214	1.17	0.68	0.13			1464126	598117.5
SU2PRS41-25	20050526	0	0	Cesium-137	3.8	0.089	0.089	UJ	U	1464126	598117.5
SU2PRS41-25	20050526	0	0	Lead-212	16.6	0.363	0.086			1464126	598117.5
SU2PRS41-25	20050526	0	0	Lead-214	8.9	0.66	0.13			1464126	598117.5
SU2PRS41-25	20050526	0	0	Potassium-40	47.8	11.5	1.1			1464126	598117.5
SU2PRS41-25	20050526	0	0	Radium-228	2.1	0.26	0.23	J		1464126	598117.5
SU2PRS41-25	20050526	0	0	Thallium-208	0.498	0.138	0.067	J		1464126	598117.5
SU2PRS41-25	20050526	0	0	Thorium-228	2.6	0.46	0.02			1464126	598117.5
SU2PRS41-25	20050526	0	0	Thorium-230	2.8	0.82	0.02			1464126	598117.5

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Table 1: PRS 41 Offsite Verification Results (pCi/g)

Location	Date	Depth(feet)		Analyte	CO	Result	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
SU2PRS41-25	20050526	0	0	Thorium-232	2.1	0.415	0.012			1464126	598117.5
SU2PRS41-26	20050526	0	0	Actinium-228	1.93	1.19	0.26			1464140	598103.1
SU2PRS41-26	20050526	0	0	Bismuth-214	1.17	0.95	0.18			1464140	598103.1
SU2PRS41-26	20050526	0	0	Cesium-137	3.8	0.12	0.12	UJ	U	1464140	598103.1
SU2PRS41-26	20050526	0	0	Lead-212	16.6	0.92	0.11			1464140	598103.1
SU2PRS41-26	20050526	0	0	Lead-214	8.9	1.01	0.19			1464140	598103.1
SU2PRS41-26	20050526	0	0	Potassium-40	47.8	17.3	0.9			1464140	598103.1
SU2PRS41-26	20050526	0	0	Radium-228	2.1	1.19	0.26			1464140	598103.1
SU2PRS41-26	20050526	0	0	Thallium-208	0.498	0.26	0.08			1464140	598103.1
SU2PRS41-26	20050526	0	0	Thorium-228	2.6	1.06	0.03			1464140	598103.1
SU2PRS41-26	20050526	0	0	Thorium-230	2.8	1.51	0.02			1464140	598103.1
SU2PRS41-26	20050526	0	0	Thorium-232	2.1	1.06	0.02			1464140	598103.1
SU2PRS41-27	20050526	0	0	Bismuth-214	1.17	0.64	0.14			1464144	598099.4
SU2PRS41-27	20050526	0	0	Cesium-137	3.8	0.075	0.075	UJ	U	1464144	598099.4
SU2PRS41-27	20050526	0	0	Lead-212	16.6	0.48	0.11			1464144	598099.4
SU2PRS41-27	20050526	0	0	Lead-214	8.9	0.62	0.13			1464144	598099.4
SU2PRS41-27	20050526	0	0	Potassium-40	47.8	10.3	0.8			1464144	598099.4
SU2PRS41-27	20050526	0	0	Thallium-208	0.498	0.171	0.066			1464144	598099.4
SU2PRS41-27	20050526	0	0	Thorium-228	2.6	0.66	0.03			1464144	598099.4
SU2PRS41-27	20050526	0	0	Thorium-230	2.8	1.04	0.03			1464144	598099.4
SU2PRS41-27	20050526	0	0	Thorium-232	2.1	0.61	0.02			1464144	598099.4
SU2PRS41-28	20050526	0	0	Actinium-228	1.93	0.57	0.25			1464047	597866.4
SU2PRS41-28	20050526	0	0	Bismuth-214	1.17	0.53	0.12			1464047	597866.4
SU2PRS41-28	20050526	0	0	Cesium-137	3.8	0.09	0.09	UJ	U	1464047	597866.4
SU2PRS41-28	20050526	0	0	Lead-212	16.6	0.45	0.13			1464047	597866.4
SU2PRS41-28	20050526	0	0	Lead-214	8.9	0.55	0.1			1464047	597866.4
SU2PRS41-28	20050526	0	0	Potassium-40	47.8	7.9	0.5			1464047	597866.4
SU2PRS41-28	20050526	0	0	Radium-228	2.1	0.57	0.25			1464047	597866.4
SU2PRS41-28	20050526	0	0	Thallium-208	0.498	0.122	0.056	J		1464047	597866.4
SU2PRS41-28	20050526	0	0	Thorium-228	2.6	0.69	0.03			1464047	597866.4
SU2PRS41-28	20050526	0	0	Thorium-230	2.8	0.91	0.02			1464047	597866.4
SU2PRS41-28	20050526	0	0	Thorium-232	2.1	0.71	0.01			1464047	597866.4

D: duplicate
CO: cleanup objective
DL: detection limit
DQ: data qualifier
LQ: lab qualifier
U: not detected
J: estimated
* SU1PRS4107 was excavated for th-232 only and verification (reported as 07A) was therefore th-232 only.

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Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-01	20051130	14	14	Actinium-227	0.15	4.6	0.42	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Americium-241	0.029	63	0.16	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Bismuth-207	0.058	1.2	0.058	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Bismuth-210M	0.069	8.3	0.069	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Cesium-137	0.085	3.8	0.085	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Cobalt-60	0.021	0.7	0.11	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Lead-210	0.6	7.4	1.9	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Plutonium-238	0.027	55	0.027	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Plutonium-239/240	0.009	62	0.012	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Protactinium-231	1.1	4	2.3	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Radium-226	0.76	2.9	0.37			1464230	598154.6
BD124-01	20051130	14	14	Thorium-228	0.33	2.6	0.13	J		1464230	598154.6
BD124-01	20051130	14	14	Thorium-229	0.83	18.9	0.83	UJ	U	1464230	598154.6
BD124-01	20051130	14	14	Thorium-230	0.94	2.8	0.09	J		1464230	598154.6
BD124-01	20051130	14	14	Thorium-232	0.3	2.1	0.1	J		1464230	598154.6
BD124-02	20051130	14	15	Actinium-227	0.25	4.6	0.39	U	U	1464245	598154.6
BD124-02	20051130	14	15	Americium-241	0.075	63	0.16	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Bismuth-207	0.057	1.2	0.057	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Bismuth-210M	0.073	8.3	0.073	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Cesium-137	0.11	3.8	0.11	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Cobalt-60	0.095	0.7	0.095	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Lead-210	0.81	7.4	1.9	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Plutonium-238	0.002	55	0.027	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Plutonium-239/240	0.003	62	0.025	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Protactinium-231	0.5	4	2.2	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Radium-226	0.7	2.9	0.37			1464245	598154.6
BD124-02	20051130	14	15	Thorium-228	0.32	2.6	0.06			1464245	598154.6
BD124-02	20051130	14	15	Thorium-229	0.76	18.9	0.76	UJ	U	1464245	598154.6
BD124-02	20051130	14	15	Thorium-230	0.8	2.8	0.03			1464245	598154.6
BD124-02	20051130	14	15	Thorium-232	0.37	2.1	0.05			1464245	598154.6
BD124-04	20051128	1.5	2	Actinium-227	0.09	4.6	0.51	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Americium-241	0.19	63	0.19	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Bismuth-207	0.089	1.2	0.089	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Bismuth-210M	0.018	8.3	0.11	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Cesium-137	0.015	3.8	0.12	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Cobalt-60	0.081	0.7	0.081	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Lead-210	0.2	7.4	2.6	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Plutonium-238	0.074	55	0.038	J	J	1464223	598167.6
BD124-04	20051128	1.5	2	Plutonium-239/240	0.003	62	0.026	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Protactinium-231	1.6	4	3.2	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Radium-226	0.72	2.9	0.45			1464223	598167.6
BD124-04	20051128	1.5	2	Thorium-228	1.12	2.6	0.04			1464223	598167.6
BD124-04	20051128	1.5	2	Thorium-229	1.2	18.9	1.2	UJ	U	1464223	598167.6
BD124-04	20051128	1.5	2	Thorium-230	0.96	2.8	0.03			1464223	598167.6
BD124-04	20051128	1.5	2	Thorium-232	1.14	2.1	0.03			1464223	598167.6
BD124-05[	20051130	14	14	Actinium-227	0.23	4.6	0.48	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Actinium-227	0.06	4.6	0.38	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Americium-241	0.2	63	0.2	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Americium-241	0.014	63	0.14	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Bismuth-207	0.013	1.2	0.09	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Bismuth-207	0.054	1.2	0.054	UJ	U	1464238	598167.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-05[	20051130	14	14	Bismuth-210M	0.11	8.3	0.11	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Bismuth-210M	0.09	8.3	0.09	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Cesium-137	0.098	3.8	0.098	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Cesium-137	0.033	3.8	0.08	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Cobalt-60	0.036	0.7	0.13	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Cobalt-60	0.017	0.7	0.087	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Lead-210	1.5	7.4	2.4	U	U	1464238	598167.6
BD124-05	20051130	14	14	Lead-210	0.5	7.4	1.9	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Plutonium-238	0.01	55	0.03	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Plutonium-238	0.033	55	0.033	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Plutonium-239/240	0.023	62	0.023	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Plutonium-239/240	0.024	62	0.024	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Protactinium-231	1	4	2.5	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Protactinium-231	0.3	4	2	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Radium-226	1	2.9	0.18			1464238	598167.6
BD124-05	20051130	14	14	Radium-226	0.75	2.9	0.36			1464238	598167.6
BD124-05[	20051130	14	14	Thorium-228	0.43	2.6	0.1			1464238	598167.6
BD124-05	20051130	14	14	Thorium-228	0.45	2.6	0.09			1464238	598167.6
BD124-05[	20051130	14	14	Thorium-229	1.2	18.9	1.2	UJ	U	1464238	598167.6
BD124-05	20051130	14	14	Thorium-229	0.31	18.9	0.89	UJ	U	1464238	598167.6
BD124-05[	20051130	14	14	Thorium-230	0.97	2.8	0.05			1464238	598167.6
BD124-05	20051130	14	14	Thorium-230	0.98	2.8	0.06			1464238	598167.6
BD124-05[	20051130	14	14	Thorium-232	0.47	2.1	0.03			1464238	598167.6
BD124-05	20051130	14	14	Thorium-232	0.43	2.1	0.06			1464238	598167.6
BD124-06	20051130	15	15	Actinium-227	0.1	4.6	0.38	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Americium-241	0.016	63	0.15	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Bismuth-207	0.023	1.2	0.077	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Bismuth-210M	0.021	8.3	0.093	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Cesium-137	0.009	3.8	0.11	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Cobalt-60	0.093	0.7	0.093	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Lead-210	1.9	7.4	1.9	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Plutonium-238	0.009	55	0.022	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Plutonium-239/240	0.022	62	0.022	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Protactinium-231	0.2	4	2.1	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Radium-226	0.8	2.9	0.39			1464253	598167.6
BD124-06	20051130	15	15	Thorium-228	0.37	2.6	0.05			1464253	598167.6
BD124-06	20051130	15	15	Thorium-229	0.44	18.9	0.92	UJ	U	1464253	598167.6
BD124-06	20051130	15	15	Thorium-230	0.83	2.8	0.03			1464253	598167.6
BD124-06	20051130	15	15	Thorium-232	0.39	2.1	0.02			1464253	598167.6
BD124-07	20051130	14	14	Actinium-227	0.42	4.6	0.42	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Americium-241	0.18	63	0.18	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Bismuth-207	0.009	1.2	0.069	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Bismuth-210M	0.018	8.3	0.1	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Cesium-137	0.068	3.8	0.068	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Cobalt-60	0.13	0.7	0.13	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Lead-210	1.7	7.4	2.7	U	U	1464268	598167.6
BD124-07	20051130	14	14	Plutonium-238	0.011	55	0.033	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Plutonium-239/240	0.026	62	0.026	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Protactinium-231	0.6	4	2.4	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Radium-226	0.6	2.9	0.45			1464268	598167.6
BD124-07	20051130	14	14	Thorium-228	0.43	2.6	0.04			1464268	598167.6

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Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-07	20051130	14	14	Thorium-229	0.39	18.9	1	UJ	U	1464268	598167.6
BD124-07	20051130	14	14	Thorium-230	0.76	2.8	0.03			1464268	598167.6
BD124-07	20051130	14	14	Thorium-232	0.36	2.1	0.03			1464268	598167.6
BD124-08	20051130	11	12	Actinium-227	0.46	4.6	0.46	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Americium-241	0.008	63	0.17	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Bismuth-207	0.07	1.2	0.07	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Bismuth-210M	0.092	8.3	0.092	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Cesium-137	0.096	3.8	0.096	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Cobalt-60	0.086	0.7	0.086	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Lead-210	1.3	7.4	2.3	U	U	1464230	598180.6
BD124-08	20051130	11	12	Plutonium-238	0.005	55	0.029	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Plutonium-239/240	0.023	62	0.023	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Protactinium-231	0.6	4	2.5	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Radium-226	0.75	2.9	0.42			1464230	598180.6
BD124-08	20051130	11	12	Thorium-228	0.51	2.6	0.09			1464230	598180.6
BD124-08	20051130	11	12	Thorium-229	0.05	18.9	0.99	UJ	U	1464230	598180.6
BD124-08	20051130	11	12	Thorium-230	0.99	2.8	0.05			1464230	598180.6
BD124-08	20051130	11	12	Thorium-232	0.52	2.1	0.05			1464230	598180.6
BD124-09	20051130	12	12	Actinium-227	0.06	4.6	0.36	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Americium-241	0.13	63	0.13	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Bismuth-207	0.053	1.2	0.053	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Bismuth-210M	0.081	8.3	0.081	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Cesium-137	0.099	3.8	0.099	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Cobalt-60	0.11	0.7	0.11	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Lead-210	0.53	7.4	1.8	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Plutonium-238	0.0003	55	0.03	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Plutonium-239/240	0.01	62	0.01	U	U	1464245	598180.6
BD124-09	20051130	12	12	Protactinium-231	1.8	4	1.8	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Radium-226	0.65	2.9	0.36			1464245	598180.6
BD124-09	20051130	12	12	Thorium-228	0.44	2.6	0.06			1464245	598180.6
BD124-09	20051130	12	12	Thorium-229	0.19	18.9	0.89	UJ	U	1464245	598180.6
BD124-09	20051130	12	12	Thorium-230	0.78	2.8	0.04			1464245	598180.6
BD124-09	20051130	12	12	Thorium-232	0.4	2.1	0.04			1464245	598180.6
BD124-10	20051130	12	13	Actinium-227	0.36	4.6	0.36	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Americium-241	0.16	63	0.16	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Bismuth-207	0.002	1.2	0.086	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Bismuth-210M	0.099	8.3	0.099	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Cesium-137	0.087	3.8	0.087	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Cobalt-60	0.06	0.7	0.14	U	U	1464260	598180.6
BD124-10	20051130	12	13	Lead-210	0.08	7.4	2.3	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Plutonium-238	0.008	55	0.023	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Plutonium-239/240	0.02	62	0.02	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Protactinium-231	2.1	4	2.1	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Radium-226	0.74	2.9	0.47			1464260	598180.6
BD124-10	20051130	12	13	Thorium-228	0.32	2.6	0.11	J		1464260	598180.6
BD124-10	20051130	12	13	Thorium-229	1	18.9	1	UJ	U	1464260	598180.6
BD124-10	20051130	12	13	Thorium-230	0.76	2.8	0.09			1464260	598180.6
BD124-10	20051130	12	13	Thorium-232	0.43	2.1	0.06			1464260	598180.6
BD124-11	20051130	13	14	Actinium-227	0.18	4.6	0.37	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Americium-241	0.018	63	0.13	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Bismuth-207	0.054	1.2	0.054	UJ	U	1464275	598180.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-11	20051130	13	14	Bismuth-210M	0.075	8.3	0.075	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Cesium-137	0.074	3.8	0.074	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Cobalt-60	0.084	0.7	0.084	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Lead-210	0.37	7.4	1.8	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Plutonium-238	0.006	55	0.034	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Plutonium-239/240	0.005	62	0.036	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Protactinium-231	0.7	4	2	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Radium-226	0.84	2.9	0.15			1464275	598180.6
BD124-11	20051130	13	14	Thorium-228	0.32	2.6	0.05			1464275	598180.6
BD124-11	20051130	13	14	Thorium-229	0.77	18.9	0.77	UJ	U	1464275	598180.6
BD124-11	20051130	13	14	Thorium-230	0.79	2.8	0.04			1464275	598180.6
BD124-11	20051130	13	14	Thorium-232	0.38	2.1	0.02			1464275	598180.6
BD124-12	20051128	1.5	2	Actinium-227	0.83	4.6	0.79	J		1464223	598193.6
BD124-12	20051128	1.5	2	Americium-241	0.02	63	0.24	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Bismuth-207	0.096	1.2	0.096	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Bismuth-210M	0.14	8.3	0.14	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Cesium-137	0.035	3.8	0.15	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Cobalt-60	0.058	0.7	0.058	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Lead-210	1.4	7.4	2.9	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Plutonium-238	0.099	55	0.047	J	J	1464223	598193.6
BD124-12	20051128	1.5	2	Plutonium-239/240	0.002	62	0.027	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Protactinium-231	3.4	4	3.7	U	U	1464223	598193.6
BD124-12	20051128	1.5	2	Radium-226	0.94	2.9	0.24			1464223	598193.6
BD124-12	20051128	1.5	2	Thorium-228	1.82	2.6	0.09			1464223	598193.6
BD124-12	20051128	1.5	2	Thorium-229	1.4	18.9	1.4	UJ	U	1464223	598193.6
BD124-12	20051128	1.5	2	Thorium-230	1.49	2.8	0.08			1464223	598193.6
BD124-12	20051128	1.5	2	Thorium-232	1.66	2.1	0.07			1464223	598193.6
BD124-13	20051130	11	11	Actinium-227	0.31	4.6	0.31	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Americium-241	0.062	63	0.15	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Bismuth-207	0.061	1.2	0.061	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Bismuth-210M	0.047	8.3	0.094	U	U	1464238	598193.6
BD124-13	20051130	11	11	Cesium-137	0.01	3.8	0.095	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Cobalt-60	0.002	0.7	0.11	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Lead-210	0.37	7.4	1.8	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Plutonium-238	0.012	55	0.047	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Plutonium-239/240	0.008	62	0.034	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Protactinium-231	1.7	4	1.7	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Radium-226	0.81	2.9	0.38			1464238	598193.6
BD124-13	20051130	11	11	Thorium-228	0.183	2.6	0.042			1464238	598193.6
BD124-13	20051130	11	11	Thorium-229	0.25	18.9	0.86	UJ	U	1464238	598193.6
BD124-13	20051130	11	11	Thorium-230	0.41	2.8	0.03			1464238	598193.6
BD124-13	20051130	11	11	Thorium-232	0.232	2.1	0.032			1464238	598193.6
BD124-14	20051128	11	12	Actinium-227	0.07	4.6	0.43	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Americium-241	0.16	63	0.16	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Bismuth-207	0.027	1.2	0.089	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Bismuth-210M	0.1	8.3	0.1	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Cesium-137	0.093	3.8	0.093	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Cobalt-60	0.029	0.7	0.13	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Lead-210	0.8	7.4	2.5	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Plutonium-238	0.001	55	0.045	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Plutonium-239/240	0.005	62	0.014	UJ	U	1464253	598193.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-14	20051128	11	12	Protactinium-231	2	4	2	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Radium-226	0.58	2.9	0.42			1464253	598193.6
BD124-14	20051128	11	12	Thorium-228	0.34	2.6	0.03			1464253	598193.6
BD124-14	20051128	11	12	Thorium-229	0.94	18.9	0.94	UJ	U	1464253	598193.6
BD124-14	20051128	11	12	Thorium-230	0.91	2.8	0.03			1464253	598193.6
BD124-14	20051128	11	12	Thorium-232	0.323	2.1	0.027			1464253	598193.6
BD124-15[	20051129	11	12	Actinium-227	0.08	4.6	0.43	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Actinium-227	0.18	4.6	0.41	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Americium-241	0.028	63	0.17	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Americium-241	0.14	63	0.14	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Bismuth-207	0.079	1.2	0.079	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Bismuth-207	0.01	1.2	0.06	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Bismuth-210M	0.1	8.3	0.1	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Bismuth-210M	0.075	8.3	0.075	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Cesium-137	0.076	3.8	0.076	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Cesium-137	0.073	3.8	0.073	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Cobalt-60	0.004	0.7	0.12	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Cobalt-60	0.026	0.7	0.11	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Lead-210	1.5	7.4	2.3	U	U	1464268	598193.6
BD124-15	20051129	11	12	Lead-210	0.44	7.4	1.9	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Plutonium-238	0.005	55	0.035	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Plutonium-238	0.023	55	0.036	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Plutonium-239/240	0.026	62	0.026	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Plutonium-239/240	0.002	62	0.028	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Protactinium-231	1.1	4	2.4	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Protactinium-231	0.07	4	2	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Radium-226	0.62	2.9	0.16			1464268	598193.6
BD124-15	20051129	11	12	Radium-226	0.66	2.9	0.15			1464268	598193.6
BD124-15[	20051129	11	12	Thorium-228	0.36	2.6	0.05			1464268	598193.6
BD124-15	20051129	11	12	Thorium-228	0.3	2.6	0.05			1464268	598193.6
BD124-15[	20051129	11	12	Thorium-229	0.51	18.9	1.1	UJ	U	1464268	598193.6
BD124-15	20051129	11	12	Thorium-229	0.06	18.9	0.94	UJ	U	1464268	598193.6
BD124-15[	20051129	11	12	Thorium-230	0.91	2.8	0.04			1464268	598193.6
BD124-15	20051129	11	12	Thorium-230	0.72	2.8	0.05			1464268	598193.6
BD124-15[	20051129	11	12	Thorium-232	0.37	2.1	0.02			1464268	598193.6
BD124-15	20051129	11	12	Thorium-232	0.38	2.1	0.05			1464268	598193.6
BD124-16	20051128	1.5	2	Actinium-227	0.07	4.6	0.46	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Americium-241	0.06	63	0.2	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Bismuth-207	0.08	1.2	0.08	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Bismuth-210M	0.11	8.3	0.11	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Cesium-137	0.1	3.8	0.1	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Cobalt-60	0.025	0.7	0.13	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Lead-210	0.8	7.4	2.2	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Plutonium-238	0.019	55	0.034	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Plutonium-239/240	0.005	62	0.014	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Protactinium-231	1.5	4	2.5	U	U	1464215	598206.6
BD124-16	20051128	1.5	2	Radium-226	0.88	2.9	0.44			1464215	598206.6
BD124-16	20051128	1.5	2	Thorium-228	0.56	2.6	0.03			1464215	598206.6
BD124-16	20051128	1.5	2	Thorium-229	1	18.9	1	UJ	U	1464215	598206.6
BD124-16	20051128	1.5	2	Thorium-230	0.97	2.8	0.02			1464215	598206.6
BD124-16	20051128	1.5	2	Thorium-232	0.65	2.1	0.02			1464215	598206.6

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Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-17	20051129	9.5	10	Actinium-227	0.11	4.6	0.39	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Americium-241	0.17	63	0.17	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Bismuth-207	0.076	1.2	0.076	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Bismuth-210M	0.11	8.3	0.11	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Cesium-137	0.012	3.8	0.1	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Cobalt-60	0.083	0.7	0.083	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Lead-210	0.05	7.4	2.1	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Plutonium-238	0.0003	55	0.034	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Plutonium-239/240	0.005	62	0.015	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Protactinium-231	2.1	4	2.1	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Radium-226	0.88	2.9	0.45			1464230	598206.6
BD124-17	20051129	9.5	10	Thorium-228	0.42	2.6	0.07			1464230	598206.6
BD124-17	20051129	9.5	10	Thorium-229	0.37	18.9	0.94	UJ	U	1464230	598206.6
BD124-17	20051129	9.5	10	Thorium-230	0.94	2.8	0.03			1464230	598206.6
BD124-17	20051129	9.5	10	Thorium-232	0.49	2.1	0.05			1464230	598206.6
BD124-18	20051129	9	9.5	Actinium-227	0.41	4.6	0.41	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Americium-241	0.012	63	0.15	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Bismuth-207	0.049	1.2	0.076	U	U	1464245	598206.6
BD124-18	20051129	9	9.5	Bismuth-210M	0.089	8.3	0.089	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Cesium-137	0.08	3.8	0.08	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Cobalt-60	0.005	0.7	0.11	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Lead-210	1.9	7.4	1.9	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Plutonium-238	0.013	55	0.036	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Plutonium-239/240	0.003	62	0.025	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Protactinium-231	0.6	4	2	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Radium-226	0.86	2.9	0.37			1464245	598206.6
BD124-18	20051129	9	9.5	Thorium-228	0.47	2.6	0.08			1464245	598206.6
BD124-18	20051129	9	9.5	Thorium-229	0.04	18.9	0.94	UJ	U	1464245	598206.6
BD124-18	20051129	9	9.5	Thorium-230	0.88	2.8	0.04			1464245	598206.6
BD124-18	20051129	9	9.5	Thorium-232	0.51	2.1	0.03			1464245	598206.6
BD124-19	20051129	9	9.5	Actinium-227	0.3	4.6	0.63	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Americium-241	0.24	63	0.24	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Bismuth-207	0.012	1.2	0.11	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Bismuth-210M	0.12	8.3	0.12	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Cesium-137	0.007	3.8	0.13	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Cobalt-60	0.15	0.7	0.15	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Lead-210	0.4	7.4	2.9	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Plutonium-238	0.018	55	0.029	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Plutonium-239/240	0.003	62	0.026	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Protactinium-231	1.6	4	3.4	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Radium-226	0.81	2.9	0.28			1464260	598206.6
BD124-19	20051129	9	9.5	Thorium-228	1.12	2.6	0.05			1464260	598206.6
BD124-19	20051129	9	9.5	Thorium-229	1.3	18.9	1.3	UJ	U	1464260	598206.6
BD124-19	20051129	9	9.5	Thorium-230	0.82	2.8	0.03			1464260	598206.6
BD124-19	20051129	9	9.5	Thorium-232	0.87	2.1	0.03			1464260	598206.6
BD124-20	20051129	8.5	9	Actinium-227	0.72	4.6	0.81	U	U	1464275	598206.6
BD124-20	20051129	8.5	9	Americium-241	0.03	63	0.28	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Bismuth-207	0.018	1.2	0.13	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Bismuth-210M	0.14	8.3	0.14	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Cesium-137	0.019	3.8	0.17	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Cobalt-60	0.009	0.7	0.19	UJ	U	1464275	598206.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-20	20051129	8.5	9	Lead-210	1.3	7.4	3.8	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Plutonium-238	0.008	55	0.046	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Plutonium-239/240	0.027	62	0.027	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Protactinium-231	3.2	4	3.2	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Radium-226	0.59	2.9	0.56			1464275	598206.6
BD124-20	20051129	8.5	9	Thorium-228	1.05	2.6	0.09	J		1464275	598206.6
BD124-20	20051129	8.5	9	Thorium-229	0.45	18.9	1.5	UJ	U	1464275	598206.6
BD124-20	20051129	8.5	9	Thorium-230	0.82	2.8	0.06	J		1464275	598206.6
BD124-20	20051129	8.5	9	Thorium-232	1.11	2.1	0.07	J		1464275	598206.6
BD124-21	20051128	1.5	2	Actinium-227	0.12	4.6	0.42	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Americium-241	0.15	63	0.15	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Bismuth-207	0.006	1.2	0.068	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Bismuth-210M	0.034	8.3	0.11	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Cesium-137	0.11	3.8	0.11	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Cobalt-60	0.12	0.7	0.12	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Lead-210	1.9	7.4	1.9	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Plutonium-238	0.057	55	0.041	J	J	1464223	598219.5
BD124-21	20051128	1.5	2	Plutonium-239/240	0.01	62	0.01	U	U	1464223	598219.5
BD124-21	20051128	1.5	2	Protactinium-231	1.9	4	1.9	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Radium-226	0.85	2.9	0.42			1464223	598219.5
BD124-21	20051128	1.5	2	Thorium-228	0.55	2.6	0.04			1464223	598219.5
BD124-21	20051128	1.5	2	Thorium-229	0.88	18.9	0.88	UJ	U	1464223	598219.5
BD124-21	20051128	1.5	2	Thorium-230	1	2.8	0.03			1464223	598219.5
BD124-21	20051128	1.5	2	Thorium-232	0.45	2.1	0.03			1464223	598219.5
BD124-22	20051129	6	6.5	Actinium-227	0.18	4.6	0.72	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Americium-241	0.27	63	0.27	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Bismuth-207	0.086	1.2	0.15	U	U	1464238	598219.5
BD124-22	20051129	6	6.5	Bismuth-210M	0.051	8.3	0.17	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Cesium-137	0.11	3.8	0.11	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Cobalt-60	0.14	0.7	0.14	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Lead-210	3.6	7.4	3.6	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Plutonium-238	0.041	55	0.041	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Plutonium-239/240	0.008	62	0.031	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Protactinium-231	0.2	4	3.8	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Radium-226	1.06	2.9	0.66			1464238	598219.5
BD124-22	20051129	6	6.5	Thorium-228	0.9	2.6	0.06			1464238	598219.5
BD124-22	20051129	6	6.5	Thorium-229	0.42	18.9	1.6	UJ	U	1464238	598219.5
BD124-22	20051129	6	6.5	Thorium-230	0.82	2.8	0.06			1464238	598219.5
BD124-22	20051129	6	6.5	Thorium-232	0.96	2.1	0.04			1464238	598219.5
BD124-23	20051129	5	5.5	Actinium-227	0.4	4.6	0.75	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Americium-241	0.28	63	0.28	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Bismuth-207	0.12	1.2	0.12	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Bismuth-210M	0.15	8.3	0.15	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Cesium-137	0.14	3.8	0.14	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Cobalt-60	0.22	0.7	0.22	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Lead-210	0.5	7.4	3.5	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Plutonium-238	0.01	55	0.034	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Plutonium-239/240	0.026	62	0.026	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Protactinium-231	2.9	4	4.1	U	U	1464253	598219.5
BD124-23	20051129	5	5.5	Radium-226	0.85	2.9	0.58			1464253	598219.5
BD124-23	20051129	5	5.5	Thorium-228	1	2.6	0.04			1464253	598219.5

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-23	20051129	5	5.5	Thorium-229	1.6	18.9	1.6	UJ	U	1464253	598219.5
BD124-23	20051129	5	5.5	Thorium-230	0.77	2.8	0.02			1464253	598219.5
BD124-23	20051129	5	5.5	Thorium-232	1.11	2.1	0.03			1464253	598219.5
BD124-24	20051129	4.5	5	Actinium-227	0.42	4.6	0.82	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Americium-241	0.06	63	0.28	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Bismuth-207	0.13	1.2	0.13	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Bismuth-210M	0.15	8.3	0.15	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Cesium-137	0.015	3.8	0.18	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Cobalt-60	0.05	0.7	0.24	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Lead-210	2	7.4	3.7	U	U	1464268	598219.5
BD124-24	20051129	4.5	5	Plutonium-238	0.01	55	0.041	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Plutonium-239/240	0.02	62	0.02	U	U	1464268	598219.5
BD124-24	20051129	4.5	5	Protactinium-231	3.4	4	4.4	U	U	1464268	598219.5
BD124-24	20051129	4.5	5	Radium-226	0.82	2.9	0.57			1464268	598219.5
BD124-24	20051129	4.5	5	Thorium-228	1.29	2.6	0.05			1464268	598219.5
BD124-24	20051129	4.5	5	Thorium-229	1.6	18.9	1.6	UJ	U	1464268	598219.5
BD124-24	20051129	4.5	5	Thorium-230	0.69	2.8	0.03			1464268	598219.5
BD124-24	20051129	4.5	5	Thorium-232	1.19	2.1	0.02			1464268	598219.5
BD124-25	20051129	6.5	7	Actinium-227	0.42	4.6	0.78	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Americium-241	0.007	63	0.28	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Bismuth-207	0.1	1.2	0.1	U	U	1464230	598232.5
BD124-25	20051129	6.5	7	Bismuth-210M	0.17	8.3	0.17	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Cesium-137	0.001	3.8	0.2	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Cobalt-60	0.19	0.7	0.19	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Lead-210	2.1	7.4	3.9	U	U	1464230	598232.5
BD124-25	20051129	6.5	7	Plutonium-238	0.032	55	0.032	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Plutonium-239/240	0.01	62	0.01	U	U	1464230	598232.5
BD124-25	20051129	6.5	7	Protactinium-231	1.2	4	4	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Radium-226	0.98	2.9	0.29			1464230	598232.5
BD124-25	20051129	6.5	7	Thorium-228	1.15	2.6	0.09			1464230	598232.5
BD124-25	20051129	6.5	7	Thorium-229	0.31	18.9	1.7	UJ	U	1464230	598232.5
BD124-25	20051129	6.5	7	Thorium-230	1.02	2.8	0.04			1464230	598232.5
BD124-25	20051129	6.5	7	Thorium-232	1.67	2.1	0.07			1464230	598232.5
BD124-26	20051129	5	5.5	Actinium-227	0.81	4.6	0.81	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Americium-241	0.34	63	0.34	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Bismuth-207	0.056	1.2	0.16	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Bismuth-210M	0.18	8.3	0.18	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Cesium-137	0.16	3.8	0.16	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Cobalt-60	0.16	0.7	0.16	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Lead-210	2	7.4	4.2	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Plutonium-238	0.018	55	0.037	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Plutonium-239/240	0.003	62	0.026	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Protactinium-231	0.2	4	4.7	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Radium-226	1	2.9	0.69			1464245	598232.5
BD124-26	20051129	5	5.5	Thorium-228	1.03	2.6	0.07			1464245	598232.5
BD124-26	20051129	5	5.5	Thorium-229	0.3	18.9	1.9	UJ	U	1464245	598232.5
BD124-26	20051129	5	5.5	Thorium-230	0.95	2.8	0.05			1464245	598232.5
BD124-26	20051129	5	5.5	Thorium-232	1.04	2.1	0.03			1464245	598232.5
BD124-31	20051128	5	5.5	Actinium-227	0.1	4.6	0.3	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Americium-241	0.01	63	0.12	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Bismuth-207	0.008	1.2	0.058	UJ	U	1464283	598167.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-31	20051128	5	5.5	Bismuth-210M	0.0008	8.3	0.074	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Cesium-137	0.074	3.8	0.074	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Cobalt-60	0.001	0.7	0.089	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Lead-210	0.61	7.4	1.8	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Plutonium-238	0.043	55	0.028	J	J	1464283	598167.6
BD124-31	20051128	5	5.5	Plutonium-239/240	0.025	62	0.025	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Protactinium-231	0.31	4	1.8	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Radium-226	0.4	2.9	0.3			1464283	598167.6
BD124-31	20051128	5	5.5	Thorium-228	0.179	2.6	0.042			1464283	598167.6
BD124-31	20051128	5	5.5	Thorium-229	0.06	18.9	0.72	UJ	U	1464283	598167.6
BD124-31	20051128	5	5.5	Thorium-230	0.43	2.8	0.03			1464283	598167.6
BD124-31	20051128	5	5.5	Thorium-232	0.202	2.1	0.028			1464283	598167.6
BD124-32	20051128	5	5.5	Actinium-227	0.28	4.6	0.28	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Americium-241	0.12	63	0.12	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Bismuth-207	0.049	1.2	0.049	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Bismuth-210M	0.071	8.3	0.071	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Cesium-137	0.055	3.8	0.055	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Cobalt-60	0.0004	0.7	0.078	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Lead-210	0.004	7.4	1.7	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Plutonium-238	0.225	55	0.032			1464298	598167.6
BD124-32	20051128	5	5.5	Plutonium-239/240	0.025	62	0.025	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Protactinium-231	1.4	4	2.2	U	U	1464298	598167.6
BD124-32	20051128	5	5.5	Radium-226	0.45	2.9	0.33			1464298	598167.6
BD124-32	20051128	5	5.5	Thorium-228	0.226	2.6	0.042			1464298	598167.6
BD124-32	20051128	5	5.5	Thorium-229	0.05	18.9	0.84	UJ	U	1464298	598167.6
BD124-32	20051128	5	5.5	Thorium-230	0.55	2.8	0.02			1464298	598167.6
BD124-32	20051128	5	5.5	Thorium-232	0.194	2.1	0.023			1464298	598167.6
BD124-33	20051128	5	5.5	Actinium-227	0.14	4.6	0.39	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Americium-241	0.12	63	0.12	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Bismuth-207	0.002	1.2	0.06	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Bismuth-210M	0.058	8.3	0.058	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Cesium-137	0.004	3.8	0.078	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Cobalt-60	0.042	0.7	0.11	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Lead-210	1.6	7.4	1.6	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Plutonium-238	0.48	55	0.03			1464313	598167.6
BD124-33	20051128	5	5.5	Plutonium-239/240	0.024	62	0.024	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Protactinium-231	0.67	4	1.8	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Radium-226	0.4	2.9	0.3			1464313	598167.6
BD124-33	20051128	5	5.5	Thorium-228	0.223	2.6	0.054			1464313	598167.6
BD124-33	20051128	5	5.5	Thorium-229	0.27	18.9	0.87	UJ	U	1464313	598167.6
BD124-33	20051128	5	5.5	Thorium-230	0.49	2.8	0.04			1464313	598167.6
BD124-33	20051128	5	5.5	Thorium-232	0.237	2.1	0.041			1464313	598167.6
BD124-34	20051128	5	5.5	Actinium-227	0.29	4.6	0.29	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Americium-241	0.1	63	0.1	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Bismuth-207	0.002	1.2	0.056	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Bismuth-210M	0.066	8.3	0.066	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Cesium-137	0.007	3.8	0.081	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Cobalt-60	0.085	0.7	0.085	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Lead-210	1.04	7.4	1.7	U	U	1464328	598167.6
BD124-34	20051128	5	5.5	Plutonium-238	0.126	55	0.031			1464328	598167.6
BD124-34	20051128	5	5.5	Plutonium-239/240	0.025	62	0.025	UJ	U	1464328	598167.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-34	20051128	5	5.5	Protactinium-231	1.5	4	1.5	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Radium-226	0.4	2.9	0.28			1464328	598167.6
BD124-34	20051128	5	5.5	Thorium-228	0.14	2.6	0.041			1464328	598167.6
BD124-34	20051128	5	5.5	Thorium-229	0.57	18.9	0.57	UJ	U	1464328	598167.6
BD124-34	20051128	5	5.5	Thorium-230	0.245	2.8	0.032	J		1464328	598167.6
BD124-34	20051128	5	5.5	Thorium-232	0.083	2.1	0.034	J	J	1464328	598167.6
BD124-35	20051128	5	5.5	Actinium-227	0.13	4.6	0.36	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Americium-241	0.14	63	0.14	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Bismuth-207	0.048	1.2	0.048	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Bismuth-210M	0.079	8.3	0.079	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Cesium-137	0.078	3.8	0.078	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Cobalt-60	0.061	0.7	0.061	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Lead-210	0.6	7.4	2.1	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Plutonium-238	0.009	55	0.04	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Plutonium-239/240	0.004	62	0.021	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Protactinium-231	0.09	4	2.2	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Radium-226	0.58	2.9	0.39			1464290	598180.6
BD124-35	20051128	5	5.5	Thorium-228	0.27	2.6	0.08			1464290	598180.6
BD124-35	20051128	5	5.5	Thorium-229	0.89	18.9	0.89	UJ	U	1464290	598180.6
BD124-35	20051128	5	5.5	Thorium-230	0.77	2.8	0.04			1464290	598180.6
BD124-35	20051128	5	5.5	Thorium-232	0.22	2.1	0.06	J		1464290	598180.6
BD124-36	20051128	5	5.5	Actinium-227	0.35	4.6	0.35	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Americium-241	0.12	63	0.12	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Bismuth-207	0.063	1.2	0.063	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Bismuth-210M	0.069	8.3	0.069	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Cesium-137	0.004	3.8	0.067	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Cobalt-60	0.007	0.7	0.081	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Lead-210	0.35	7.4	1.7	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Plutonium-238	0.011	55	0.033	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Plutonium-239/240	0.026	62	0.026	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Protactinium-231	0.7	4	2.1	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Radium-226	0.4	2.9	0.3			1464305	598180.6
BD124-36	20051128	5	5.5	Thorium-228	0.28	2.6	0.06			1464305	598180.6
BD124-36	20051128	5	5.5	Thorium-229	0.76	18.9	0.76	UJ	U	1464305	598180.6
BD124-36	20051128	5	5.5	Thorium-230	0.57	2.8	0.03	J		1464305	598180.6
BD124-36	20051128	5	5.5	Thorium-232	0.34	2.1	0.05			1464305	598180.6
BD124-37	20051128	5	5.5	Actinium-227	0.29	4.6	0.29	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Americium-241	0.037	63	0.12	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Bismuth-207	0.005	1.2	0.057	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Bismuth-210M	0.07	8.3	0.07	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Cesium-137	0.008	3.8	0.092	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Cobalt-60	0.043	0.7	0.11	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Lead-210	0.23	7.4	1.5	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Plutonium-238	0.335	55	0.028			1464320	598180.6
BD124-37	20051128	5	5.5	Plutonium-239/240	0.003	62	0.024	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Protactinium-231	1.6	4	1.6	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Radium-226	0.65	2.9	0.13			1464320	598180.6
BD124-37	20051128	5	5.5	Thorium-228	0.28	2.6	0.1	J		1464320	598180.6
BD124-37	20051128	5	5.5	Thorium-229	0.08	18.9	0.73	UJ	U	1464320	598180.6
BD124-37	20051128	5	5.5	Thorium-230	0.61	2.8	0.06	J		1464320	598180.6
BD124-37	20051128	5	5.5	Thorium-232	0.33	2.1	0.06			1464320	598180.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-38	20051128	5	5.5	Actinium-227	0.32	4.6	0.32	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Americium-241	0.017	63	0.14	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Bismuth-207	0.025	1.2	0.074	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Bismuth-210M	0.081	8.3	0.081	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Cesium-137	0.056	3.8	0.056	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Cobalt-60	0.087	0.7	0.087	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Lead-210	0.07	7.4	2	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Plutonium-238	0.003	55	0.025	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Plutonium-239/240	0.022	62	0.022	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Protactinium-231	0.5	4	1.9	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Radium-226	0.51	2.9	0.37			1464283	598193.6
BD124-38	20051128	5	5.5	Thorium-228	0.286	2.6	0.043			1464283	598193.6
BD124-38	20051128	5	5.5	Thorium-229	0.83	18.9	0.83	UJ	U	1464283	598193.6
BD124-38	20051128	5	5.5	Thorium-230	0.6	2.8	0.02			1464283	598193.6
BD124-38	20051128	5	5.5	Thorium-232	0.22	2.1	0.039			1464283	598193.6
BD124-39	20051128	5	5.5	Actinium-227	0.22	4.6	0.4	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Americium-241	6.00E-05	63	0.13	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Bismuth-207	0.006	1.2	0.056	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Bismuth-210M	0.075	8.3	0.075	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Cesium-137	0.079	3.8	0.079	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Cobalt-60	0.051	0.7	0.051	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Lead-210	0.47	7.4	1.8	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Plutonium-238	0.221	55	0.029			1464298	598193.6
BD124-39	20051128	5	5.5	Plutonium-239/240	0.002	62	0.027	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Protactinium-231	1.7	4	1.7	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Radium-226	0.55	2.9	0.34			1464298	598193.6
BD124-39	20051128	5	5.5	Thorium-228	0.31	2.6	0.06			1464298	598193.6
BD124-39	20051128	5	5.5	Thorium-229	0.61	18.9	0.61	UJ	U	1464298	598193.6
BD124-39	20051128	5	5.5	Thorium-230	0.56	2.8	0.04			1464298	598193.6
BD124-39	20051128	5	5.5	Thorium-232	0.29	2.1	0.04			1464298	598193.6
BD124-40	20051128	5	5.5	Actinium-227	0.06	4.6	0.32	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Americium-241	0.095	63	0.095	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Bismuth-207	0.016	1.2	0.06	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Bismuth-210M	0.068	8.3	0.068	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Cesium-137	0.006	3.8	0.09	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Cobalt-60	0.013	0.7	0.11	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Lead-210	1.5	7.4	1.5	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Plutonium-238	0.086	55	0.029	J	J	1464313	598193.6
BD124-40	20051128	5	5.5	Plutonium-239/240	0.002	62	0.027	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Protactinium-231	0.39	4	1.5	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Radium-226	0.25	2.9	0.29	U	U	1464313	598193.6
BD124-40	20051128	5	5.5	Thorium-228	0.175	2.6	0.038			1464313	598193.6
BD124-40	20051128	5	5.5	Thorium-229	0.02	18.9	0.77	UJ	U	1464313	598193.6
BD124-40	20051128	5	5.5	Thorium-230	0.5	2.8	0.03			1464313	598193.6
BD124-40	20051128	5	5.5	Thorium-232	0.163	2.1	0.029			1464313	598193.6
BD124-41	20051130	5	5.5	Actinium-227	0.15	4.6	0.42	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Americium-241	0.032	63	0.18	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Bismuth-207	0.006	1.2	0.074	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Bismuth-210M	0.011	8.3	0.1	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Cesium-137	0.078	3.8	0.078	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Cobalt-60	0.009	0.7	0.085	UJ	U	1464328	598193.6

Table 2: Salvage Area Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-41	20051130	5	5.5	Lead-210	0.2	7.4	2.4	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Plutonium-238	0.393	55	0.024			1464328	598193.6
BD124-41	20051130	5	5.5	Plutonium-239/240	0.003	62	0.024	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Protactinium-231	0.2	4	2.4	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Radium-226	0.38	2.9	0.39	U	U	1464328	598193.6
BD124-41	20051130	5	5.5	Thorium-228	0.45	2.6	0.11			1464328	598193.6
BD124-41	20051130	5	5.5	Thorium-229	0.02	18.9	0.99	UJ	U	1464328	598193.6
BD124-41	20051130	5	5.5	Thorium-230	0.87	2.8	0.08			1464328	598193.6
BD124-41	20051130	5	5.5	Thorium-232	0.35	2.1	0.08			1464328	598193.6
BD124-42	20051128	5	5.5	Actinium-227	0.31	4.6	0.31	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Americium-241	0.11	63	0.11	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Bismuth-207	0.003	1.2	0.058	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Bismuth-210M	0.067	8.3	0.067	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Cesium-137	0.073	3.8	0.073	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Cobalt-60	0.07	0.7	0.07	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Lead-210	0.16	7.4	1.6	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Plutonium-238	0.118	55	0.026			1464290	598206.6
BD124-42	20051128	5	5.5	Plutonium-239/240	0.01	62	0.01	U	U	1464290	598206.6
BD124-42	20051128	5	5.5	Protactinium-231	0.38	4	1.7	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Radium-226	0.37	2.9	0.28			1464290	598206.6
BD124-42	20051128	5	5.5	Thorium-228	0.271	2.6	0.05			1464290	598206.6
BD124-42	20051128	5	5.5	Thorium-229	0.63	18.9	0.63	UJ	U	1464290	598206.6
BD124-42	20051128	5	5.5	Thorium-230	0.6	2.8	0.03			1464290	598206.6
BD124-42	20051128	5	5.5	Thorium-232	0.244	2.1	0.033			1464290	598206.6
BD124-43	20051128	5	5.5	Actinium-227	0.1	4.6	0.36	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Americium-241	0.12	63	0.12	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Bismuth-207	0.012	1.2	0.061	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Bismuth-210M	0.075	8.3	0.075	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Cesium-137	0.017	3.8	0.082	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Cobalt-60	0.015	0.7	0.1	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Lead-210	0.18	7.4	1.7	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Plutonium-238	0.148	55	0.026			1464305	598206.6
BD124-43	20051128	5	5.5	Plutonium-239/240	0.01	62	0.01	U	U	1464305	598206.6
BD124-43	20051128	5	5.5	Protactinium-231	1.5	4	1.5	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Radium-226	0.6	2.9	0.11			1464305	598206.6
BD124-43	20051128	5	5.5	Thorium-228	0.19	2.6	0.054			1464305	598206.6
BD124-43	20051128	5	5.5	Thorium-229	0.71	18.9	0.71	UJ	U	1464305	598206.6
BD124-43	20051128	5	5.5	Thorium-230	0.44	2.8	0.03			1464305	598206.6
BD124-43	20051128	5	5.5	Thorium-232	0.26	2.1	0.015			1464305	598206.6

U: not detected
J: estimated
CO: cleanup objective
DQ: data qualifier
DL: detection limit
LQ: lab qualifier

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-44D	20051128	0	0.5	Actinium-227	0.25	4.6	0.25	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Actinium-227	0.22	4.6	0.22	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Americium-241	0.032	63	0.1	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Americium-241	0.014	63	0.1	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Bismuth-207	0.009	1.2	0.045	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Bismuth-207	0.004	1.2	0.042	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Bismuth-210M	0.057	8.3	0.057	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Bismuth-210M	0.061	8.3	0.061	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Cesium-137	0.053	3.8	0.053	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Cesium-137	0.056	3.8	0.056	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Cobalt-60	0.014	0.7	0.071	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Cobalt-60	0.055	0.7	0.055	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Lead-210	0.62	7.4	1.4	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Lead-210	1.4	7.4	1.4	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Plutonium-238	0.091	55	0.042	J	J	1464320	598206.6
BD124-44	20051128	0	0.5	Plutonium-238	0.093	55	0.042	J	J	1464320	598206.6
BD124-44D	20051128	0	0.5	Plutonium-239/240	0.004	62	0.023	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Plutonium-239/240	0.029	62	0.029	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Protactinium-231	0.69	4	1.4	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Protactinium-231	0.95	4	1.8	U	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Radium-226	0.28	2.9	0.22			1464320	598206.6
BD124-44	20051128	0	0.5	Radium-226	0.3	2.9	0.23			1464320	598206.6
BD124-44D	20051128	0	0.5	Thorium-228	0.264	2.6	0.042			1464320	598206.6
BD124-44	20051128	0	0.5	Thorium-228	0.277	2.6	0.041			1464320	598206.6
BD124-44D	20051128	0	0.5	Thorium-229	0.2	18.9	0.64	UJ	U	1464320	598206.6
BD124-44	20051128	0	0.5	Thorium-229	0.3	18.9	0.64	UJ	U	1464320	598206.6
BD124-44D	20051128	0	0.5	Thorium-230	0.52	2.8	0.03			1464320	598206.6
BD124-44	20051128	0	0.5	Thorium-230	0.55	2.8	0.03			1464320	598206.6
BD124-44D	20051128	0	0.5	Thorium-232	0.256	2.1	0.032			1464320	598206.6
BD124-44	20051128	0	0.5	Thorium-232	0.23	2.1	0.035			1464320	598206.6
BD124-45	20051128	0	0.5	Actinium-227	0.36	4.6	0.41	U	U	1464283	598219.5
BD124-45	20051128	0	0.5	Americium-241	0.032	63	0.13	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Bismuth-207	0.004	1.2	0.066	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Bismuth-210M	0.073	8.3	0.073	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Cesium-137	0.076	3.8	0.076	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Cobalt-60	0.007	0.7	0.096	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Lead-210	0.37	7.4	1.7	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Plutonium-238	0.042	55	0.035	J	J	1464283	598219.5
BD124-45	20051128	0	0.5	Plutonium-239/240	0.005	62	0.015	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Protactinium-231	1.7	4	1.7	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Radium-226	0.45	2.9	0.29			1464283	598219.5
BD124-45	20051128	0	0.5	Thorium-228	0.48	2.6	0.05			1464283	598219.5
BD124-45	20051128	0	0.5	Thorium-229	0.7	18.9	0.7	UJ	U	1464283	598219.5
BD124-45	20051128	0	0.5	Thorium-230	0.69	2.8	0.03			1464283	598219.5
BD124-45	20051128	0	0.5	Thorium-232	0.5	2.1	0.03			1464283	598219.5
BD124-46	20051128	0	0.5	Actinium-227	0.18	4.6	0.28	U	U	1464298	598219.5
BD124-46	20051128	0	0.5	Americium-241	0.1	63	0.1	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Bismuth-207	0.008	1.2	0.049	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Bismuth-210M	0.067	8.3	0.067	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Cesium-137	0.068	3.8	0.068	UJ	U	1464298	598219.5

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-46	20051128	0	0.5	Cobalt-60	0.079	0.7	0.079	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Lead-210	0.09	7.4	1.4	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Plutonium-238	0.095	55	0.036		J	1464298	598219.5
BD124-46	20051128	0	0.5	Plutonium-239/240	0.032	62	0.032	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Protactinium-231	0.29	4	1.4	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Radium-226	0.35	2.9	0.26			1464298	598219.5
BD124-46	20051128	0	0.5	Thorium-228	0.33	2.6	0.08			1464298	598219.5
BD124-46	20051128	0	0.5	Thorium-229	0.59	18.9	0.59	UJ	U	1464298	598219.5
BD124-46	20051128	0	0.5	Thorium-230	0.57	2.8	0.04			1464298	598219.5
BD124-46	20051128	0	0.5	Thorium-232	0.33	2.1	0.02			1464298	598219.5
BD124-47D	20051128	0	0.5	Actinium-227	0.07	4.6	0.32	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Actinium-227	0.21	4.6	0.39	U	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Americium-241	0.11	63	0.11	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Americium-241	0.019	63	0.13	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Bismuth-207	0.024	1.2	0.063	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Bismuth-207	0.046	1.2	0.046	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Bismuth-210M	0.062	8.3	0.062	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Bismuth-210M	0.082	8.3	0.082	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Cesium-137	0.013	3.8	0.071	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Cesium-137	0.02	3.8	0.079	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Cobalt-60	0.006	0.7	0.073	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Cobalt-60	0.067	0.7	0.067	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Lead-210	0.37	7.4	1.6	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Lead-210	1.1	7.4	2.1	U	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Plutonium-238	0.061	55	0.04	J	J	1464313	598219.5
BD124-47	20051128	0	0.5	Plutonium-238	0.024	55	0.045	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Plutonium-239/240	0.01	62	0.01	U	U	1464313	598219.5
BD124-47	20051128	0	0.5	Plutonium-239/240	0.036	62	0.036	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Protactinium-231	0.13	4	1.6	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Protactinium-231	1.8	4	1.8	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Radium-226	0.53	2.9	0.1			1464313	598219.5
BD124-47	20051128	0	0.5	Radium-226	0.44	2.9	0.32			1464313	598219.5
BD124-47D	20051128	0	0.5	Thorium-228	0.3	2.6	0.06			1464313	598219.5
BD124-47	20051128	0	0.5	Thorium-228	0.29	2.6	0.06			1464313	598219.5
BD124-47D	20051128	0	0.5	Thorium-229	0.42	18.9	0.81	UJ	U	1464313	598219.5
BD124-47	20051128	0	0.5	Thorium-229	0.84	18.9	0.84	UJ	U	1464313	598219.5
BD124-47D	20051128	0	0.5	Thorium-230	0.57	2.8	0.04			1464313	598219.5
BD124-47	20051128	0	0.5	Thorium-230	0.73	2.8	0.03			1464313	598219.5
BD124-47D	20051128	0	0.5	Thorium-232	0.299	2.1	0.035			1464313	598219.5
BD124-47	20051128	0	0.5	Thorium-232	0.33	2.1	0.03			1464313	598219.5
BD124-48	20051130	0.5	1	Actinium-227	0.51	4.6	0.56	U	U	1464328	598219.5
BD124-48	20051130	0.5	1	Americium-241	0.2	63	0.2	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Bismuth-207	0.004	1.2	0.084	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Bismuth-210M	0.11	8.3	0.11	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Cesium-137	0.01	3.8	0.11	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Cobalt-60	0.025	0.7	0.13	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Lead-210	0.6	7.4	2.4	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Plutonium-238	1.55	55	0.04			1464328	598219.5
BD124-48	20051130	0.5	1	Plutonium-239/240	0.002	62	0.026	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Protactinium-231	1.3	4	2.6	UJ	U	1464328	598219.5

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-48	20051130	0.5	1	Radium-226	0.61	2.9	0.39			1464328	598219.5
BD124-48	20051130	0.5	1	Thorium-228	0.94	2.6	0.06			1464328	598219.5
BD124-48	20051130	0.5	1	Thorium-229	0.09	18.9	1.1	UJ	U	1464328	598219.5
BD124-48	20051130	0.5	1	Thorium-230	0.9	2.8	0.04			1464328	598219.5
BD124-48	20051130	0.5	1	Thorium-232	0.94	2.1	0.04			1464328	598219.5
BD124-49	20051128	0	0.5	Actinium-227	0.06	4.6	0.38	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Americium-241	0.035	63	0.16	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Bismuth-207	0.002	1.2	0.075	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Bismuth-210M	0.071	8.3	0.071	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Cesium-137	0.092	3.8	0.092	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Cobalt-60	0.11	0.7	0.11	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Lead-210	0.29	7.4	1.8	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Plutonium-238	0.369	55	0.04			1464260	598232.5
BD124-49	20051128	0	0.5	Plutonium-239/240	0.005	62	0.014	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Protactinium-231	1.38	4	2.1	U	U	1464260	598232.5
BD124-49	20051128	0	0.5	Radium-226	0.6	2.9	0.34			1464260	598232.5
BD124-49	20051128	0	0.5	Thorium-228	0.65	2.6	0.06			1464260	598232.5
BD124-49	20051128	0	0.5	Thorium-229	0.1	18.9	0.9	UJ	U	1464260	598232.5
BD124-49	20051128	0	0.5	Thorium-230	0.58	2.8	0.05			1464260	598232.5
BD124-49	20051128	0	0.5	Thorium-232	0.71	2.1	0.04			1464260	598232.5
BD124-50	20051128	0	0.5	Actinium-227	0.09	4.6	0.45	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Americium-241	0.02	63	0.18	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Bismuth-207	0.065	1.2	0.065	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Bismuth-210M	0.006	8.3	0.09	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Cesium-137	0.01	3.8	0.12	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Cobalt-60	0.076	0.7	0.076	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Lead-210	1.4	7.4	2.5	U	U	1464275	598232.5
BD124-50	20051128	0	0.5	Plutonium-238	0.44	55	0.04			1464275	598232.5
BD124-50	20051128	0	0.5	Plutonium-239/240	0.001	62	0.027	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Protactinium-231	0.2	4	2.5	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Radium-226	0.61	2.9	0.4			1464275	598232.5
BD124-50	20051128	0	0.5	Thorium-228	0.46	2.6	0.05			1464275	598232.5
BD124-50	20051128	0	0.5	Thorium-229	0.99	18.9	0.99	UJ	U	1464275	598232.5
BD124-50	20051128	0	0.5	Thorium-230	0.66	2.8	0.04			1464275	598232.5
BD124-50	20051128	0	0.5	Thorium-232	0.52	2.1	0.02			1464275	598232.5
BD124-51	20051128	0	0.5	Actinium-227	0.26	4.6	0.26	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Americium-241	0.1	63	0.1	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Bismuth-207	0.01	1.2	0.052	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Bismuth-210M	0.061	8.3	0.061	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Cesium-137	0.057	3.8	0.057	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Cobalt-60	0.038	0.7	0.038	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Lead-210	0.47	7.4	1.4	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Plutonium-238	0.33	55	0.05			1464290	598232.5
BD124-51	20051128	0	0.5	Plutonium-239/240	0.029	62	0.029	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Protactinium-231	0.48	4	1.4	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Radium-226	0.33	2.9	0.24			1464290	598232.5
BD124-51	20051128	0	0.5	Thorium-228	0.149	2.6	0.047			1464290	598232.5
BD124-51	20051128	0	0.5	Thorium-229	0.58	18.9	0.58	UJ	U	1464290	598232.5
BD124-51	20051128	0	0.5	Thorium-230	0.4	2.8	0.04			1464290	598232.5
BD124-51	20051128	0	0.5	Thorium-232	0.211	2.1	0.035			1464290	598232.5

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-52	20051128	0	0.5	Actinium-227	0.13	4.6	0.35	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Americium-241	0.12	63	0.12	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Bismuth-207	0.009	1.2	0.058	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Bismuth-210M	0.071	8.3	0.071	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Cesium-137	0.066	3.8	0.066	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Cobalt-60	0.013	0.7	0.083	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Lead-210	1.5	7.4	1.5	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Plutonium-238	0.077	55	0.047	J	J	1464305	598232.5
BD124-52	20051128	0	0.5	Plutonium-239/240	0.022	62	0.022	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Protactinium-231	0.06	4	1.7	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Radium-226	0.38	2.9	0.29			1464305	598232.5
BD124-52	20051128	0	0.5	Thorium-228	0.289	2.6	0.042			1464305	598232.5
BD124-52	20051128	0	0.5	Thorium-229	0.75	18.9	0.75	UJ	U	1464305	598232.5
BD124-52	20051128	0	0.5	Thorium-230	0.61	2.8	0.03			1464305	598232.5
BD124-52	20051128	0	0.5	Thorium-232	0.245	2.1	0.033			1464305	598232.5
BD124-53	20051128	0	0.5	Actinium-227	0.28	4.6	0.28	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Americium-241	0.027	63	0.11	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Bismuth-207	0.014	1.2	0.049	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Bismuth-210M	0.002	8.3	0.065	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Cesium-137	0.003	3.8	0.08	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Cobalt-60	0.013	0.7	0.084	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Lead-210	0.21	7.4	1.4	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Plutonium-238	0.229	55	0.05			1464320	598232.5
BD124-53	20051128	0	0.5	Plutonium-239/240	0.036	62	0.036	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Protactinium-231	0.24	4	1.5	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Radium-226	0.3	2.9	0.12			1464320	598232.5
BD124-53	20051128	0	0.5	Thorium-228	0.268	2.6	0.042			1464320	598232.5
BD124-53	20051128	0	0.5	Thorium-229	0.6	18.9	0.6	UJ	U	1464320	598232.5
BD124-53	20051128	0	0.5	Thorium-230	0.65	2.8	0.03			1464320	598232.5
BD124-53	20051128	0	0.5	Thorium-232	0.249	2.1	0.026			1464320	598232.5
BD124-54	20051130	0	0.5	Actinium-227	0.31	4.6	0.31	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Americium-241	0.082	63	0.14	U	U	1464230	598154.6
BD124-54	20051130	0	0.5	Bismuth-207	0.004	1.2	0.057	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Bismuth-210M	0.052	8.3	0.052	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Cesium-137	0.014	3.8	0.064	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Cobalt-60	0.013	0.7	0.079	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Lead-210	0.16	7.4	1.6	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Plutonium-238	0.017	55	0.047	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Plutonium-239/240	0.01	62	0.01	U	U	1464230	598154.6
BD124-54	20051130	0	0.5	Protactinium-231	0.6	4	1.7	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Radium-226	0.31	2.9	0.28			1464230	598154.6
BD124-54	20051130	0	0.5	Thorium-228	0.25	2.6	0.05			1464230	598154.6
BD124-54	20051130	0	0.5	Thorium-229	0.12	18.9	0.66	UJ	U	1464230	598154.6
BD124-54	20051130	0	0.5	Thorium-230	0.57	2.8	0.03			1464230	598154.6
BD124-54	20051130	0	0.5	Thorium-232	0.243	2.1	0.021			1464230	598154.6
BD124-55	20051130	0	0.5	Actinium-227	0.21	4.6	0.31	U	U	1464245	598154.6
BD124-55	20051130	0	0.5	Americium-241	0.063	63	0.12	U	U	1464245	598154.6
BD124-55	20051130	0	0.5	Bismuth-207	0.041	1.2	0.041	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Bismuth-210M	0.065	8.3	0.065	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Cesium-137	0.027	3.8	0.07	UJ	U	1464245	598154.6

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-55	20051130	0	0.5	Cobalt-60	0.071	0.7	0.071	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Lead-210	1.08	7.4	1.6	U	U	1464245	598154.6
BD124-55	20051130	0	0.5	Plutonium-238	0.027	55	0.035	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Plutonium-239/240	0.002	62	0.026	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Protactinium-231	1.6	4	1.6	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Radium-226	0.35	2.9	0.26			1464245	598154.6
BD124-55	20051130	0	0.5	Thorium-228	0.238	2.6	0.035			1464245	598154.6
BD124-55	20051130	0	0.5	Thorium-229	0.66	18.9	0.66	UJ	U	1464245	598154.6
BD124-55	20051130	0	0.5	Thorium-230	0.62	2.8	0.02			1464245	598154.6
BD124-55	20051130	0	0.5	Thorium-232	0.28	2.1	0.023			1464245	598154.6
BD124-57	20051128	0	0.5	Actinium-227	0.03	4.6	0.3	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Americium-241	0.016	63	0.12	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Bismuth-207	0.01	1.2	0.05	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Bismuth-210M	0.059	8.3	0.059	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Cesium-137	0.011	3.8	0.074	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Cobalt-60	0.006	0.7	0.056	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Lead-210	1.4	7.4	1.4	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Plutonium-238	0.01	55	0.035	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Plutonium-239/240	0.003	62	0.027	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Protactinium-231	0.06	4	1.5	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Radium-226	0.35	2.9	0.27			1464223	598167.6
BD124-57	20051128	0	0.5	Thorium-228	0.222	2.6	0.058			1464223	598167.6
BD124-57	20051128	0	0.5	Thorium-229	0.64	18.9	0.64	UJ	U	1464223	598167.6
BD124-57	20051128	0	0.5	Thorium-230	0.52	2.8	0.03			1464223	598167.6
BD124-57	20051128	0	0.5	Thorium-232	0.25	2.1	0.021			1464223	598167.6
BD124-58	20051129	0	0.5	Actinium-227	0.09	4.6	0.28	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Americium-241	0.088	63	0.088	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Bismuth-207	0.002	1.2	0.044	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Bismuth-210M	0.0006	8.3	0.057	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Cesium-137	0.049	3.8	0.049	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Cobalt-60	0.011	0.7	0.08	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Lead-210	0.11	7.4	1.3	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Plutonium-238	0.041	55	0.036	J	J	1464238	598167.6
BD124-58	20051129	0	0.5	Plutonium-239/240	0.01	62	0.01	U	U	1464238	598167.6
BD124-58	20051129	0	0.5	Protactinium-231	0.04	4	1.3	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Radium-226	0.27	2.9	0.23			1464238	598167.6
BD124-58	20051129	0	0.5	Thorium-228	0.22	2.6	0.033			1464238	598167.6
BD124-58	20051129	0	0.5	Thorium-229	0.6	18.9	0.6	UJ	U	1464238	598167.6
BD124-58	20051129	0	0.5	Thorium-230	0.38	2.8	0.02			1464238	598167.6
BD124-58	20051129	0	0.5	Thorium-232	0.184	2.1	0.026			1464238	598167.6
BD124-59	20051129	0	0.5	Actinium-227	0.3	4.6	0.3	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Americium-241	0.041	63	0.14	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Bismuth-207	0.008	1.2	0.067	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Bismuth-210M	0.003	8.3	0.073	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Cesium-137	0.071	3.8	0.071	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Cobalt-60	0.051	0.7	0.12	U	U	1464253	598167.6
BD124-59	20051129	0	0.5	Lead-210	0.59	7.4	2	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Plutonium-238	0.032	55	0.033	U	U	1464253	598167.6
BD124-59	20051129	0	0.5	Plutonium-239/240	0.024	62	0.024	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Protactinium-231	0.6	4	1.9	UJ	U	1464253	598167.6

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-59	20051129	0	0.5	Radium-226	0.46	2.9	0.33			1464253	598167.6
BD124-59	20051129	0	0.5	Thorium-228	0.44	2.6	0.08			1464253	598167.6
BD124-59	20051129	0	0.5	Thorium-229	0.01	18.9	0.8	UJ	U	1464253	598167.6
BD124-59	20051129	0	0.5	Thorium-230	0.69	2.8	0.03			1464253	598167.6
BD124-59	20051129	0	0.5	Thorium-232	0.28	2.1	0.04			1464253	598167.6
BD124-60	20051129	0	0.5	Actinium-227	0.3	4.6	0.3	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Americium-241	0.11	63	0.11	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Bismuth-207	0.048	1.2	0.048	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Bismuth-210M	0.078	8.3	0.078	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Cesium-137	0.01	3.8	0.084	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Cobalt-60	0.066	0.7	0.066	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Lead-210	0.17	7.4	1.6	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Plutonium-238	0.0003	55	0.032	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Plutonium-239/240	0.01	62	0.01	U	U	1464268	598167.6
BD124-60	20051129	0	0.5	Protactinium-231	1.3	4	1.9	U	U	1464268	598167.6
BD124-60	20051129	0	0.5	Radium-226	0.42	2.9	0.28			1464268	598167.6
BD124-60	20051129	0	0.5	Thorium-228	0.218	2.6	0.051			1464268	598167.6
BD124-60	20051129	0	0.5	Thorium-229	0.75	18.9	0.75	UJ	U	1464268	598167.6
BD124-60	20051129	0	0.5	Thorium-230	0.45	2.8	0.03			1464268	598167.6
BD124-60	20051129	0	0.5	Thorium-232	0.177	2.1	0.025			1464268	598167.6
BD124-61	20051130	0.5	1	Actinium-227	0.18	4.6	0.35	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Americium-241	0.085	63	0.13	U	U	1464230	598180.6
BD124-61	20051130	0.5	1	Bismuth-207	0.024	1.2	0.064	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Bismuth-210M	0.017	8.3	0.078	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Cesium-137	0.055	3.8	0.055	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Cobalt-60	0.014	0.7	0.076	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Lead-210	0.6	7.4	1.7	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Plutonium-238	0.008	55	0.038	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Plutonium-239/240	0.003	62	0.026	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Protactinium-231	0.09	4	1.6	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Radium-226	0.46	2.9	0.29			1464230	598180.6
BD124-61	20051130	0.5	1	Thorium-228	0.28	2.6	0.07			1464230	598180.6
BD124-61	20051130	0.5	1	Thorium-229	0.004	18.9	0.76	UJ	U	1464230	598180.6
BD124-61	20051130	0.5	1	Thorium-230	0.62	2.8	0.04			1464230	598180.6
BD124-61	20051130	0.5	1	Thorium-232	0.258	2.1	0.039			1464230	598180.6
BD124-62	20051128	0	0.5	Actinium-227	0.28	4.6	0.28	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Americium-241	0.13	63	0.13	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Bismuth-207	0.027	1.2	0.066	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Bismuth-210M	0.008	8.3	0.071	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Cesium-137	0.017	3.8	0.089	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Cobalt-60	0.002	0.7	0.1	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Lead-210	1.4	7.4	1.4	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Plutonium-238	0.201	55	0.032			1464245	598180.6
BD124-62	20051128	0	0.5	Plutonium-239/240	0.003	62	0.025	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Protactinium-231	0.33	4	1.8	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Radium-226	0.56	2.9	0.31			1464245	598180.6
BD124-62	20051128	0	0.5	Thorium-228	0.47	2.6	0.06			1464245	598180.6
BD124-62	20051128	0	0.5	Thorium-229	0.71	18.9	0.71	UJ	U	1464245	598180.6
BD124-62	20051128	0	0.5	Thorium-230	0.78	2.8	0.03			1464245	598180.6
BD124-62	20051128	0	0.5	Thorium-232	0.53	2.1	0.03			1464245	598180.6

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-63	20051128	0	0.5	Actinium-227	0.006	4.6	0.29	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Americium-241	0.026	63	0.12	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Bismuth-207	0.002	1.2	0.062	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Bismuth-210M	0.07	8.3	0.07	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Cesium-137	0.013	3.8	0.087	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Cobalt-60	0.066	0.7	0.066	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Lead-210	1.5	7.4	1.5	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Plutonium-238	0.009	55	0.042	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Plutonium-239/240	0.022	62	0.022	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Protactinium-231	0.54	4	1.9	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Radium-226	0.5	2.9	0.31			1464260	598180.6
BD124-63	20051128	0	0.5	Thorium-228	0.5	2.6	0.04	J		1464260	598180.6
BD124-63	20051128	0	0.5	Thorium-229	0.66	18.9	0.66	UJ	U	1464260	598180.6
BD124-63	20051128	0	0.5	Thorium-230	0.69	2.8	0.03			1464260	598180.6
BD124-63	20051128	0	0.5	Thorium-232	0.5	2.1	0.02	J		1464260	598180.6
BD124-64	20051128	0	0.5	Actinium-227	0.02	4.6	0.3	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Americium-241	0.1	63	0.1	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Bismuth-207	0.011	1.2	0.058	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Bismuth-210M	0.075	8.3	0.075	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Cesium-137	0.024	3.8	0.074	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Cobalt-60	0.007	0.7	0.067	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Lead-210	0.67	7.4	1.9	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Plutonium-238	0.017	55	0.037	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Plutonium-239/240	0.025	62	0.025	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Protactinium-231	0.07	4	1.6	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Radium-226	0.4	2.9	0.29			1464275	598180.6
BD124-64	20051128	0	0.5	Thorium-228	0.259	2.6	0.044	J		1464275	598180.6
BD124-64	20051128	0	0.5	Thorium-229	0.7	18.9	0.7	UJ	U	1464275	598180.6
BD124-64	20051128	0	0.5	Thorium-230	0.57	2.8	0.02			1464275	598180.6
BD124-64	20051128	0	0.5	Thorium-232	0.269	2.1	0.035	J		1464275	598180.6
BD124-65	20051128	0.3	0.8	Actinium-227	0.01	4.6	0.27	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Americium-241	0.021	63	0.096	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Bismuth-207	0.007	1.2	0.049	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Bismuth-210M	0.057	8.3	0.057	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Cesium-137	0.012	3.8	0.066	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Cobalt-60	0.067	0.7	0.067	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Lead-210	1.4	7.4	1.4	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Plutonium-238	0.007	55	0.034	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Plutonium-239/240	0.003	62	0.032	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Protactinium-231	1.24	4	1.7	U	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Radium-226	0.5	2.9	0.27			1464223	598193.6
BD124-65	20051128	0.3	0.8	Thorium-228	0.178	2.6	0.029	J		1464223	598193.6
BD124-65	20051128	0.3	0.8	Thorium-229	0.54	18.9	0.54	UJ	U	1464223	598193.6
BD124-65	20051128	0.3	0.8	Thorium-230	0.48	2.8	0.04			1464223	598193.6
BD124-65	20051128	0.3	0.8	Thorium-232	0.213	2.1	0.019	J		1464223	598193.6
BD124-66	20051128	0	0.5	Actinium-227	0.12	4.6	0.37	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Americium-241	0.077	63	0.16	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Bismuth-207	0.012	1.2	0.071	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Bismuth-210M	0.03	8.3	0.099	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Cesium-137	0.082	3.8	0.082	UJ	U	1464238	598193.6

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-66	20051128	0	0.5	Cobalt-60	0.023	0.7	0.097	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Lead-210	0.47	7.4	1.9	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Plutonium-238	0.012	55	0.026	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Plutonium-239/240	0.01	62	0.01	U	U	1464238	598193.6
BD124-66	20051128	0	0.5	Protactinium-231	0.4	4	2	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Radium-226	0.62	2.9	0.37			1464238	598193.6
BD124-66	20051128	0	0.5	Thorium-228	0.42	2.6	0.04	J		1464238	598193.6
BD124-66	20051128	0	0.5	Thorium-229	0.9	18.9	0.9	UJ	U	1464238	598193.6
BD124-66	20051128	0	0.5	Thorium-230	0.9	2.8	0.03			1464238	598193.6
BD124-66	20051128	0	0.5	Thorium-232	0.52	2.1	0.03	J		1464238	598193.6
BD124-67	20051128	0	0.5	Actinium-227	0.32	4.6	0.32	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Americium-241	0.007	63	0.11	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Bismuth-207	0.049	1.2	0.049	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Bismuth-210M	0.06	8.3	0.06	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Cesium-137	0.017	3.8	0.088	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Cobalt-60	0.025	0.7	0.099	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Lead-210	1.31	7.4	1.8	U	U	1464253	598193.6
BD124-67	20051128	0	0.5	Plutonium-238	0.03	55	0.025	J	J	1464253	598193.6
BD124-67	20051128	0	0.5	Plutonium-239/240	0.01	62	0.01	U	U	1464253	598193.6
BD124-67	20051128	0	0.5	Protactinium-231	0.01	4	1.8	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Radium-226	0.5	2.9	0.3			1464253	598193.6
BD124-67	20051128	0	0.5	Thorium-228	0.38	2.6	0.04	J		1464253	598193.6
BD124-67	20051128	0	0.5	Thorium-229	0.74	18.9	0.74	UJ	U	1464253	598193.6
BD124-67	20051128	0	0.5	Thorium-230	0.73	2.8	0.02			1464253	598193.6
BD124-67	20051128	0	0.5	Thorium-232	0.87	2.1	0.02	J		1464253	598193.6
BD124-68	20051128	0	0.5	Actinium-227	0.28	4.6	0.28	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Americium-241	0.12	63	0.12	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Bismuth-207	0.009	1.2	0.049	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Bismuth-210M	0.021	8.3	0.089	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Cesium-137	0.001	3.8	0.081	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Cobalt-60	0.054	0.7	0.054	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Lead-210	0.31	7.4	1.8	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Plutonium-238	0.063	55	0.032	J	J	1464268	598193.6
BD124-68	20051128	0	0.5	Plutonium-239/240	0.024	62	0.024	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Protactinium-231	1.6	4	1.6	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Radium-226	0.55	2.9	0.35			1464268	598193.6
BD124-68	20051128	0	0.5	Thorium-228	0.34	2.6	0.06	J		1464268	598193.6
BD124-68	20051128	0	0.5	Thorium-229	0.13	18.9	0.76	UJ	U	1464268	598193.6
BD124-68	20051128	0	0.5	Thorium-230	0.67	2.8	0.04			1464268	598193.6
BD124-68	20051128	0	0.5	Thorium-232	0.31	2.1	0.04	J		1464268	598193.6
BD124-69	20051128	0	0.5	Actinium-227	0.35	4.6	0.58	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Americium-241	0.09	63	0.21	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Bismuth-207	0.081	1.2	0.081	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Bismuth-210M	0.1	8.3	0.1	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Cesium-137	0.088	3.8	0.13	U	U	1464215	598206.6
BD124-69	20051128	0	0.5	Cobalt-60	0.11	0.7	0.11	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Lead-210	0.5	7.4	2.2	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Plutonium-238	0.077	55	0.033	J	J	1464215	598206.6
BD124-69	20051128	0	0.5	Plutonium-239/240	0.021	62	0.021	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Protactinium-231	3	4	3			1464215	598206.6

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-69	20051128	0	0.5	Radium-226	0.68	2.9	0.18			1464215	598206.6
BD124-69	20051128	0	0.5	Thorium-228	1.66	2.6	0.07	J		1464215	598206.6
BD124-69	20051128	0	0.5	Thorium-229	1	18.9	1	UJ	U	1464215	598206.6
BD124-69	20051128	0	0.5	Thorium-230	1.63	2.8	0.04			1464215	598206.6
BD124-69	20051128	0	0.5	Thorium-232	1.46	2.1	0.04	J		1464215	598206.6
BD124-70	20051129	0	0.5	Actinium-227	0.33	4.6	0.33	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Americium-241	0.13	63	0.13	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Bismuth-207	0.05	1.2	0.05	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Bismuth-210M	0.077	8.3	0.077	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Cesium-137	0.089	3.8	0.089	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Cobalt-60	0.007	0.7	0.1	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Lead-210	1.4	7.4	1.4	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Plutonium-238	0.139	55	0.032			1464230	598206.6
BD124-70	20051129	0	0.5	Plutonium-239/240	0.021	62	0.021	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Protactinium-231	1.7	4	1.7	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Radium-226	0.57	2.9	0.33			1464230	598206.6
BD124-70	20051129	0	0.5	Thorium-228	0.33	2.6	0.06	J		1464230	598206.6
BD124-70	20051129	0	0.5	Thorium-229	0.33	18.9	0.76	UJ	U	1464230	598206.6
BD124-70	20051129	0	0.5	Thorium-230	0.71	2.8	0.04			1464230	598206.6
BD124-70	20051129	0	0.5	Thorium-232	0.36	2.1	0.04	J		1464230	598206.6
BD124-71	20051128	0	0.5	Actinium-227	0.35	4.6	0.35	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Americium-241	0.018	63	0.16	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Bismuth-207	0.009	1.2	0.061	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Bismuth-210M	0.096	8.3	0.096	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Cesium-137	0.084	3.8	0.084	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Cobalt-60	0.079	0.7	0.079	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Lead-210	1.3	7.4	2.3	U	U	1464245	598206.6
BD124-71	20051128	0	0.5	Plutonium-238	0.079	55	0.038	J	J	1464245	598206.6
BD124-71	20051128	0	0.5	Plutonium-239/240	0.025	62	0.025	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Protactinium-231	1.8	4	1.8	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Radium-226	0.48	2.9	0.37			1464245	598206.6
BD124-71	20051128	0	0.5	Thorium-228	0.275	2.6	0.045	J		1464245	598206.6
BD124-71	20051128	0	0.5	Thorium-229	0.03	18.9	0.85	UJ	U	1464245	598206.6
BD124-71	20051128	0	0.5	Thorium-230	0.53	2.8	0.03			1464245	598206.6
BD124-71	20051128	0	0.5	Thorium-232	0.346	2.1	0.028	J		1464245	598206.6
BD124-72	20051128	0	0.5	Actinium-227	0.31	4.6	0.31	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Americium-241	0.1	63	0.1	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Bismuth-207	0.049	1.2	0.049	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Bismuth-210M	0.006	8.3	0.07	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Cesium-137	0.061	3.8	0.061	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Cobalt-60	0.011	0.7	0.083	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Lead-210	0.74	7.4	1.6	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Plutonium-238	0.086	55	0.033	J	J	1464260	598206.6
BD124-72	20051128	0	0.5	Plutonium-239/240	0.026	62	0.026	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Protactinium-231	0.8	4	1.8	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Radium-226	0.56	2.9	0.15			1464260	598206.6
BD124-72	20051128	0	0.5	Thorium-228	0.304	2.6	0.039	J		1464260	598206.6
BD124-72	20051128	0	0.5	Thorium-229	0.12	18.9	0.64	UJ	U	1464260	598206.6
BD124-72	20051128	0	0.5	Thorium-230	0.46	2.8	0.03			1464260	598206.6
BD124-72	20051128	0	0.5	Thorium-232	0.244	2.1	0.023	J		1464260	598206.6

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-73	20051128	0	0.5	Actinium-227	0.33	4.6	0.33	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Americium-241	0.019	63	0.12	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Bismuth-207	0.016	1.2	0.06	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Bismuth-210M	0.014	8.3	0.07	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Cesium-137	0.069	3.8	0.069	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Cobalt-60	0.019	0.7	0.082	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Lead-210	0.29	7.4	1.5	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Plutonium-238	0.099	55	0.03		J	1464275	598206.6
BD124-73	20051128	0	0.5	Plutonium-239/240	0.024	62	0.024	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Protactinium-231	0.59	4	1.7	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Radium-226	0.53	2.9	0.14			1464275	598206.6
BD124-73	20051128	0	0.5	Thorium-228	0.3	2.6	0.05	J		1464275	598206.6
BD124-73	20051128	0	0.5	Thorium-229	0.66	18.9	0.66	UJ	U	1464275	598206.6
BD124-73	20051128	0	0.5	Thorium-230	0.6	2.8	0.04			1464275	598206.6
BD124-73	20051128	0	0.5	Thorium-232	0.251	2.1	0.019	J		1464275	598206.6
BD124-74	20051128	0	0.5	Actinium-227	0.32	4.6	0.32	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Americium-241	0.15	63	0.15	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Bismuth-207	0.003	1.2	0.073	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Bismuth-210M	0.091	8.3	0.091	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Cesium-137	0.091	3.8	0.091	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Cobalt-60	0.032	0.7	0.12	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Lead-210	1.14	7.4	1.9	U	U	1464223	598219.5
BD124-74	20051128	0	0.5	Plutonium-238	0.026	55	0.032	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Plutonium-239/240	0.01	62	0.033	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Protactinium-231	0.8	4	2.1	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Radium-226	0.82	2.9	0.38			1464223	598219.5
BD124-74	20051128	0	0.5	Thorium-228	0.34	2.6	0.05	J		1464223	598219.5
BD124-74	20051128	0	0.5	Thorium-229	0.85	18.9	0.85	UJ	U	1464223	598219.5
BD124-74	20051128	0	0.5	Thorium-230	0.6	2.8	0.04			1464223	598219.5
BD124-74	20051128	0	0.5	Thorium-232	0.4	2.1	0.04	J		1464223	598219.5
BD124-75	20051128	0	0.5	Actinium-227	0.35	4.6	0.35	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Americium-241	0.008	63	0.14	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Bismuth-207	0.009	1.2	0.07	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Bismuth-210M	0.036	8.3	0.091	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Cesium-137	0.059	3.8	0.059	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Cobalt-60	0.008	0.7	0.057	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Lead-210	0.95	7.4	2.1	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Plutonium-238	0.101	55	0.043	J		1464238	598219.5
BD124-75	20051128	0	0.5	Plutonium-239/240	0.03	62	0.03	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Protactinium-231	0.32	4	1.9	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Radium-226	0.64	2.9	0.39			1464238	598219.5
BD124-75	20051128	0	0.5	Thorium-228	0.32	2.6	0.04	J		1464238	598219.5
BD124-75	20051128	0	0.5	Thorium-229	0.76	18.9	0.76	UJ	U	1464238	598219.5
BD124-75	20051128	0	0.5	Thorium-230	0.86	2.8	0.03			1464238	598219.5
BD124-75	20051128	0	0.5	Thorium-232	0.277	2.1	0.033	J		1464238	598219.5
BD124-76	20051128	0	0.5	Actinium-227	0.19	4.6	0.32	U	U	1464253	598219.5
BD124-76	20051128	0	0.5	Americium-241	0.02	63	0.13	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Bismuth-207	0.058	1.2	0.058	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Bismuth-210M	0.073	8.3	0.073	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Cesium-137	0.076	3.8	0.076	UJ	U	1464253	598219.5

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-76	20051128	0	0.5	Cobalt-60	0.016	0.7	0.072	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Lead-210	0.63	7.4	1.6	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Plutonium-238	0.06	55	0.043	J	J	1464253	598219.5
BD124-76	20051128	0	0.5	Plutonium-239/240	0.001	62	0.028	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Protactinium-231	0.76	4	1.8	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Radium-226	0.37	2.9	0.26			1464253	598219.5
BD124-76	20051128	0	0.5	Thorium-228	0.39	2.6	0.04	J		1464253	598219.5
BD124-76	20051128	0	0.5	Thorium-229	0.61	18.9	0.61	UJ	U	1464253	598219.5
BD124-76	20051128	0	0.5	Thorium-230	0.68	2.8	0.03			1464253	598219.5
BD124-76	20051128	0	0.5	Thorium-232	0.4	2.1	0.03	J		1464253	598219.5
BD124-77	20051128	0	0.5	Actinium-227	0.02	4.6	0.34	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Americium-241	0.082	63	0.14	U	U	1464268	598219.5
BD124-77	20051128	0	0.5	Bismuth-207	0.051	1.2	0.051	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Bismuth-210M	0.002	8.3	0.079	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Cesium-137	0.061	3.8	0.061	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Cobalt-60	0.015	0.7	0.091	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Lead-210	1.2	7.4	1.4	U	U	1464268	598219.5
BD124-77	20051128	0	0.5	Plutonium-238	0.046	55	0.041	J	J	1464268	598219.5
BD124-77	20051128	0	0.5	Plutonium-239/240	0.004	62	0.022	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Protactinium-231	0.22	4	1.8	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Radium-226	0.57	2.9	0.33			1464268	598219.5
BD124-77	20051128	0	0.5	Thorium-228	0.37	2.6	0.04	J		1464268	598219.5
BD124-77	20051128	0	0.5	Thorium-229	0.21	18.9	0.89	UJ	U	1464268	598219.5
BD124-77	20051128	0	0.5	Thorium-230	0.66	2.8	0.04			1464268	598219.5
BD124-77	20051128	0	0.5	Thorium-232	0.28	2.1	0.04	J		1464268	598219.5
BD124-78	20051129	0.5	1	Actinium-227	0.008	4.6	0.28	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Americium-241	0.036	63	0.12	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Bismuth-207	0.003	1.2	0.049	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Bismuth-210M	0.064	8.3	0.064	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Cesium-137	0.073	3.8	0.073	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Cobalt-60	0.068	0.7	0.068	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Lead-210	0.05	7.4	1.4	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Plutonium-238	0.064	55	0.035	J	J	1464230	598232.5
BD124-78	20051129	0.5	1	Plutonium-239/240	0.005	62	0.015	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Protactinium-231	1.6	4	1.6	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Radium-226	0.47	2.9	0.07			1464230	598232.5
BD124-78	20051129	0.5	1	Thorium-228	0.36	2.6	0.05	J		1464230	598232.5
BD124-78	20051129	0.5	1	Thorium-229	0.02	18.9	0.62	UJ	U	1464230	598232.5
BD124-78	20051129	0.5	1	Thorium-230	0.62	2.8	0.03			1464230	598232.5
BD124-78	20051129	0.5	1	Thorium-232	0.24	2.1	0.02	J		1464230	598232.5
BD124-79	20051128	0	0.5	Actinium-227	0.24	4.6	0.5	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Actinium-227	0.1	4.6	0.45	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Americium-241	0.18	63	0.18	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Americium-241	0.16	63	0.16	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Bismuth-207	0.013	1.2	0.096	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Bismuth-207	0.016	1.2	0.078	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Bismuth-210M	0.11	8.3	0.11	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Bismuth-210M	0.097	8.3	0.097	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Cesium-137	0.11	3.8	0.11	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Cesium-137	0.004	3.8	0.11	UJ	U	1464245	598232.5

Table 3: Building 124 Footprint Offsite Verification Results (pCi/g)

Location	Date	Depth (feet)		Analyte	Result	CO	DL	DQ	LQ	Coordinates	
		start	end							Easting	Northing
BD124-79	20051128	0	0.5	Cobalt-60	0.11	0.7	0.11	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Cobalt-60	0.032	0.7	0.11	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Lead-210	2.3	7.4	2.3	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Lead-210	1.1	7.4	2.4	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Plutonium-238	0.253	55	0.041			1464245	598232.5
BD124-79D	20051128	0	0.5	Plutonium-238	0.128	55	0.045			1464245	598232.5
BD124-79	20051128	0	0.5	Plutonium-239/240	0.003	62	0.037	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Plutonium-239/240	0.037	62	0.037	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Protactinium-231	0.9	4	2.8	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Protactinium-231	0.2	4	2.4	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Radium-226	0.64	2.9	0.44			1464245	598232.5
BD124-79D	20051128	0	0.5	Radium-226	0.52	2.9	0.37			1464245	598232.5
BD124-79	20051128	0	0.5	Thorium-228	0.6	2.6	0.04	J		1464245	598232.5
BD124-79D	20051128	0	0.5	Thorium-228	0.61	2.6	0.04	J		1464245	598232.5
BD124-79	20051128	0	0.5	Thorium-229	1.1	18.9	1.1	UJ	U	1464245	598232.5
BD124-79D	20051128	0	0.5	Thorium-229	0.23	18.9	0.93	UJ	U	1464245	598232.5
BD124-79	20051128	0	0.5	Thorium-230	0.86	2.8	0.03			1464245	598232.5
BD124-79D	20051128	0	0.5	Thorium-230	0.84	2.8	0.02			1464245	598232.5
BD124-79	20051128	0	0.5	Thorium-232	0.64	2.1	0.03	J		1464245	598232.5
BD124-79D	20051128	0	0.5	Thorium-232	0.56	2.1	0.03	J		1464245	598232.5

CO: cleanup objective
DL: detection limit
DQ: data qualifier
J: estimated
LQ: lab qualifier
U: not detected
D: duplicate

APPENDIX C

POST-EX SUD EXCERPTS

- Post-Ex SUD for PRS 41
- Post-Ex SUD for PRS 41 Salvage Area/Building 124 Footprint

Survey Unit Design (SUD)

Project: **PRS 41: Removal Action for Area 3 Thorium Drum Storage/ Redrumming Area**

Review & Approval

Project Engineer: John Nichols _____ for

Reviewer: James Fontaine C Kline for J. Fontaine

Reviewer: _____

Document	Title
Fact Sheet	PRS 41: Area 3 Thorium Drum Storage/ Redrumming Area, Final January, 2004
WP	ER/WM-04-0008: PRS 41 Removal Plan
VSAP	Standard Verification Sampling & Analysis Plan, Final August 2004
CRA	Contingent Removal Action, Action Memorandum, Final January 2005

☐ Pre-Excavation or ☒ Post-Excavation SUD **Date:** January 10, 2006

Summary of Changes (for Post-Excavation SUDs ONLY) (see following pages for details)	YES	NO
1. Did the COC(s) change?	X	
2. Did the grid size or N change?	X	
3. Did the classification change?		X
4. Were bias/judgmental samples collected?		X
5. Other significant change?		X

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Acronyms

AM	Action Memorandum
CO	Cleanup Objective
COC	Contaminant of Concern
Chem	Chemical
dev	deviation
Iso	Isotopic
EPA	Environmental Protection Agency
FSS	Final Status Survey
HS	Hot Spot
MARSSIM	Multi – Agency Radiation Survey and Site Investigation Manual
MD	Mound Document
MDC	Minimum Detectable Concentration
MEIMS	Mound Environmental Information Management System
NA or N/A	Non-applicable
NC	No Change
pCi/g	Pico-Curie(s) per gram
PRS	Potential Release Site
Pu	Plutonium
QA/QC	Quality Assurance/Quality Control
RA	Remedial Action/Removal Action
RadCon	Radiological Control
RASS	Remedial Action Support Survey
RP	Removal Plan
SPF	Survey Plan Form
RSDS	Radiological Survey Data Sheet
(s) Or s	effective standard deviation (MARSSIM)
Std	standard
SU	Survey Unit
SUD	Survey Unit Design
TBD	To Be Determined
Th	Thorium
U	Uranium
VSAP	Verification Sampling and Analysis Plan
VSP	Visual Sample Plan
WP	Work Package/Work Plan

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Item 1	Summary of historic **information** relevant to SU: The Removal Action associated with this SUD addresses identified contamination areas with one contaminant of concern (COC) **above the cleanup objective (CO)**. The scope of this PRS 41 SUD is to excavate radioactively contaminated soil and asphalt associated with PRS 41 at the locations shown on Figure 1, address the subsequent waste management and disposal of the contaminated soil, perform verification sampling per this SUD, backfill the excavation, and restore the site upon project completion. This SUD is part of the Removal Action described in the Public Fact Sheet, PRS 41: Area 3 Thorium Drum Storage / Re-drumming Area, dated January 2004. (See the 'You Are Here' chart for information about the other three Work Plans/ SUDs that comprise the full scope of the PRS 41 Removal Action.) Potential Release Site (PRS) 41, also known as the Area 3 Thorium Drum Storage / Re-drumming Area, is located on the west central portion of the site. Process history of the PRS indicated the potential for the presence of Thorium-232 from re-drumming operations. Further Assessment sampling determined the COC to be Thorium-232+D.
	Changes if any, from Prelim SUD Item 1: None
Item 2	Summary of historic **data** relevant to SU: The depth of contamination varies from the surface to a maximum of about 16 feet within the PRS. Concentration of Th-232 varied from non-detects to a maximum of 13.04 pCi/g. Further Assessment sampling has identified isolated areas of Th-232 contamination above the CO. For the locations covered by this SUD there are no other contaminants greater than the CO. Attachment A provides historic analytical results for Th-232 less than the CO (to reflect an "as-left" condition) for the areas of PRS 41 that are specifically covered in this Work Plan and SUD. See the PRS 41 Data Report, December 2002 for complete analytical results.
	Changes if any, from Prelim SUD Item 2: None

Item 3a

COC	BASIS	(pCi/g)			Offsite Analysis & Compendium Method			
		CO	HS	MAX	Gamma (A-015)	Iso Pu (A-012)	Iso Th (A-012)	Iso U (A-012)
Th-232+D	PRS 41: Area 3 Thorium Drum Storage/ Redrumming Area, Final January, 2004	2.1	3.5	13.04			X	

Analyses are to be performed per Mound Methods Compendium for the COC (for surface samples/analysis i.e., bedrock, asphalt, concrete) as applicable. Compendium Method A-012 is Isotopic Uranium, Isotopic Plutonium, and Isotopic Thorium by Alpha Spectrometry and Compendium Method A-015 is Gamma Spectrometry. Surface samples/analysis are to be in accordance with MD-80036 OP 30005, 30007, and 30040. Hard surfaces will be swiped and gross alpha and beta measurements will be performed and compared to the most restrictive COC in Mound 2000 Work Plan Appendix A Table 1 (NUREG 1.86 Regulatory Guide). If the location fails to meet the most restrictive criteria then it will be sent to alpha spec for determination of the COC so the applicable, instead of the most restrictive, criteria can be applied.

Changes if any, from Prelim SUD: Additional COCs apply to SU1 only.

U-238D PRS 41:CO= 2.2 pCi/g, HS= 4.2 pCi/g, MAX= 7.25 pCi/g
Ra-226 PRS41: CO=2.9 pCi/g, HS=4.7 pCi/g, MAX= 5.38 pCi/g
Reference: Soil Analysis Report GL04832, See Appendix II

Item 3b	Chem basis for std dev, AM COCs/New COCs	NA

Item 4

Classify Areas & provide justification

The Area is Class 1 due to process history and contamination identified during further assessment sampling

Note: Given the geometry of the SU it is not physically possible to achieve 100% scan coverage, therefore, a best effort will be given utilizing the Standard VSAP, Final, August 2004, Section 4.4 Special Considerations.

Selection	Class	Scan Coverage guidelines
X	1	100%
	2	10-90%
	3	Judgmental

Changes if any, from Prelim SUD: None

Item 5	Subdivide areas into SUs See Attachment A for Data See Attachment B for the MARSSIM Spreadsheet	This SUD consists of one SU: SU1 is (five areas combined), approximately 552 sq. ft. (See Figure 1)

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Changes if any, from Prelim SUD: See Appendix II for MARSSIM Spreadsheets. This SUD now consists of three **(3)** SUs: SU1-SU3. **(See Figure 2 of Appendix II).** These SUs were chosen based on the area, depths and COCs excavated during the removal action. SU1 was made separate due being excavated to a 5 foot depth and having found additional COCs. The excavation in the area of SU-2 reached a depth of 19 feet, but with the original COCs. The excavation in the area of SU-3 is composed of three areas with a 2 foot excavation depth and the original COCs. SU1 consists of one historic sample location C0103, and is approximately 3,056 sq. ft. in area. SU2 includes two historic sample locations, TB-001 and B-044. SU2 is approximately 1,417 sq. ft. in area. SU3 contains historic sample locations 3J10, 3G10 and C0115. SU3 is approximately 487 sq. ft in area. This square footage includes both the floor and the sidewalls.

Item 6a

Calculations / Rad

1. Calculate the (s) for each COC listed above: See Attachment B.

2. Number of Samples (N): See Attachment B.

Spreadsheet Calculated = 16 samples based upon all the data within PRS 41: SU1.

SU1 Scanning MDC (Area Factor) corrected = NA, no Pu-238

Visual Sample Plan (VSP) 15-foot triangular grid: NA, Due to Th-232 being the only COC.

SU1 Calculated = 3 Selected Samples (on Map) = 6

The number of samples selected is based on the minimum number of samples for a small SU as specified in Section 3.5.1 of the Mound Standard VSAP. Sample locations will be surveyed at the time of sampling or closely following.

Note: Due to safety concerns of placing an individual in the excavation, FSS sampling in trenches deeper than 4 feet will be accomplished with an excavator bucket and subsequent sampling of the material in the bucket in accordance with the procedures established the standard VSAP, Final, August 2004, Section 4.4 Special Considerations.

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Changes if any, from Prelim SUD:

For SU 1 RASS actual surface "As-Left" data was used to determine the Standard Deviation. The addition of U-238 and Ra-226 as COCs, the number of actual as left samples and the size of the excavation were the reasons for a change from the Pre-Ex SUD. See Appendix II.

For SU2 and 3 Historical, Simulated "As Left" Data, was used to calculate the Standard Deviation and not the RASS data because there were only a small number of RASS samples collected and no differences were noted. The pre-ex SUD data was revised to include only the samples taken to the depths excavated. See **Appendix II, Table 4.**

Spreadsheet Calculated = 27 samples based upon all the data within this portion of PRS 41: SU1= 9, SU2= 9 and SU3= 9. (**See Appendix II**)

SU1, SU2 and SU3 Scanning MDC (Area Factor) corrected = NA

Visual Sample Plan (VSP) For SUs 1 and 2 a 15-foot triangular grid was used: (**Note:** The calculated number of samples for SU-1 was 10 and the 15 foot grid resulted in 10 samples, so a 15 foot grid was used. For SU-1, the scanning MDC for U-238 is 1.01, so no change was made to the calculated number of samples.) For SU 3, due to its small size and shallow depth, a 15 foot grid would not result in enough samples, therefore random sampling was used. The COCs for SU-1 are Ra-226, Th-232 and U-238 are co-located and the Area Factor is not an issue due to the Scan MDC for Th-232.

SU1: Selected Samples on Map = 12, **SU2:** Selected Samples on Map = 9, **SU3:** Selected Samples on Map = 6, Based on **SVSAP, August 2004**, Section 3.5.1, Radiological Samples, page 11, Special Considerations for Small Survey Units. See Appendix II for calculations of (S) and (N). There are 27 sample locations to be sampled.

Item 6b	Calculations/ Chem, Std dev, Number of Samples	NA

Changes if any, from Prelim SUD: None.

Item 7	Grid spacing	From Attachment B. Because each of the four smaller sub-areas are <100m2 in size, (4 ft. x 4ft x 1.5 ft.), one verification sample is planned for each of those locations. Even though the larger removal area is also anticipated to be <100m2 (20 ft. x 4 ft. x 16 ft.), two verification samples locations are planned so that the minimum sample number of 6 samples per SU is met.

Changes if any, from Prelim SUD: The area excavated was larger than anticipated in the Pre-Ex SUD. New grid spacing calculations are contained in **Appendix II.** Grid Spacing for SU-3 is based on SVSAP, Final, August 2004, Special Considerations for Small Survey Units.

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Item 8	**QA/QC:** Collection of QA/QC samples shall be in accordance with the Standard VSAP, Final, August 2004. Q-002 Chain-of-Custody Procedures Q-003 Documentation Requirements Q-004 Laboratory Data Reduction Q-006 Validation of Laboratory Data Packages Q-007 Data Assessment Q-008 Data Integrity Verification Q-010 Electronic Data Deliverable Format Specifications – MEIMS Std. ... S-001 General Instructions for Field Personnel S-002 Soil Sampling With a Spade and Scoop S-028 Sample Control and Documentation S-029 Guide to Handling, Packaging, and Shipping of Samples and Method Q-002
Item 9	Bias/judgement samples (Additional bias samples are always within the discretion of the EPA.) No bias samples are planned by CH2M Hill at this time.
Item 10	Not otherwise covered.../ comments Site policy requires performance of onsite soil screening (NaI or germanium) on verification samples slated for offsite analysis and evaluation of the results prior to shipment. This analysis will generally be performed on a split of the verification sample containerized in an EPA dish (approximately 500 mL) but may be performed on the actual verification sample as long as containerization requirements are maintained for the offsite lab. Count time of the analysis will be sufficient to meet the COs of the COCs requiring verification. If there is an insufficient volume of material to fill an EPA dish within a 1m x 1m square centered on the proposed sample location, due to bedrock or obstruction (such as a structure, foundation, concrete, pavement/asphalt, large rock formations, utility bank, etc. which is not to be removed), then sediment/soil analysis will not be performed. In lieu of a sediment/soil analysis result, RadCon will survey the surface per COs and provide documentation thereof in an RSDS. Potentially impacted the work area atop the excavation, where excavated sediment/material was loaded into haulers, and are not hard surfaces (e.g., concrete and asphalt) are shown as an additional SU. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are hard surfaces (e.g., concrete and asphalt) will be surveyed and released per RadCon procedures. The RSDS(s) will be included as documentation. Any final sample location that does not meet the surface release criteria will be submitted to the Core Team for concurrence or determination of further action. Accessibility for sampling is a constraining factor. Sampling of the excavation walls may be impeded due to excavation wall accessibility by both personnel and equipment. Sidewall sampling will be performed via excavator sampling. Accessibility to the excavation floor by personnel may be impeded due to the width of the excavation not being sufficient to use a man-box for access. Where sufficient volume of soil exists and is accessible with an excavator a soil sample will be taken otherwise a surface survey (swipe and direct) will be performed utilizing methods available from atop the excavation. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are not hard surfaces (i.e., concrete and asphalt) are shown as part of the SU. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are hard surfaces (i.e., concrete and asphalt) will be surveyed and released per RadCon procedures in accordance **with DOE Order 5400.5 and Mound 2000 Work Plan Appendix A Table 1.** In-process sampling events (Characterization and Remedial Action Support Survey (RASS) samples) will be conducted during the entire PRS remediation. Samples will undergo gamma spectrometry analysis to guide actions. RASS sampling of the remediated areas will be used to determine if the FSS (verification) sampling could be conducted.

Survey Unit Design (SUD)

Project: **PRS 41 Salvage Area**

Review & Approval

Project Engineer: R.C. Ransbottom [signature] for

Reviewer: James Fontaine [signature] for J. Fontaine

Reviewer: _____

Document	Title
Fact Sheet	PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area
VSAP	Standard Verification Sampling & Analysis Plan, Final, August 2004
AM	Action Memorandum, Bldg. 124 (CWPF) Removal Action Jan. 2005, Final

☐ **Pre-Excavation** or ☒ **Post-Excavation**? **January 10, 2006**

Summary of Changes (for Post-Excavation SUDs ONLY) (see following pages for details)	YES	NO
1. Did the COC(s) change?		N
2. Did the grid size or N change?		N
3. Did the classification change?		N
4. Were bias/judgmental samples collected?		N
5. Other significant change?		N

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SUD Worksheet

Item 1

Summary of historic **information** relevant to SU:

A historic salvage area existed at the northeast corner of present PRS 41 and extended eastward so that part of it lay under former Building 124. At the time Building 124 was constructed, two isolated locations with elevated readings were discovered. These locations were removed, but final verification sampling was not conducted prior to the construction of Building 124. Building 124 has now been demolished allowing for this verification to proceed.

In addition, the eastern portion of Building 124 became contaminated during the operation of a repackaging facility within the building. The slab has been removed, but surface samples will be taken to assure the soil is not contaminated.

Item 2

Summary of historic **data** relevant to SU:

In order for Building 124 to be constructed, fill material was added to the area. Therefore, sampling in the salvage area will be done at depth to the till/fill interface and analysis will be for the following. Isotopes called out in the PRS 41 Fact Sheet along with their maximum concentrations include: Thorium 232 (140 pCi/g), Th-230 (276 pCi/g), Ra-226 (46.9 pCi/g), Pa 231 (46.7 pCi/g), Pb-210 (62.8 pCi/g), and Ac-227 (80.7 pCi/g).

Contamination on the Building 124 slab per the Building 124 AM included Ac-227, Pu-238, and Th-232. Surface sample analysis will be performed for these isotopes.

Item 3a

COC	BASIS	(pCi/g)		Offsite Analysis & Compendium Method			
		CO	HS	gamma (A-015)	Iso Pu (A-012)	Iso Th (A-012)	Iso U (A-012)
SU1:							
Th-232+D	Fact Sheet, PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area, Jan. 2004	2.06	3.39			X	
Th-230+D	Fact Sheet, PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area, Jan. 2004	2.82	4.66			X	
Ra-226+D	Fact Sheet, PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area, Jan. 2004	2.93	4.79	X			
Pa-231+D	Fact Sheet, PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area, Jan. 2004	4.00	11.8	X			
Pb-210+D	Fact Sheet, PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area, Jan. 2004	7.45	19.9	X			

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Ac-227+D	Fact Sheet, PRSs 41: Area 3 Thorium Drum Storage/Re-drumming Area, Jan. 2004	4.64	13.7	X			

SU2:

Pu-238	Action Memorandum, Bldg. 124 (CWPF) Removal Action Jan. 2005, Final	55	165		X		
Th-232+D	Action Memorandum, Bldg. 124 (CWPF) Removal Action Jan. 2005, Final	2.06	3.39			X	
Ac-227+D	Action Memorandum, Bldg. 124 (CWPF) Removal Action Jan. 2005, Final	4.64	13.7	X			

Analyses are to be performed per Mound Methods Compendium and COs (for surface samples/analysis i.e., bedrock, asphalt, concrete) as applicable. Compendium Method A-012 is Isotopic Plutonium, and Isotopic Thorium by Alpha Spectrometry and Compendium Method A-015 is Gamma Spectrometry and will be performed offsite. Surface samples/analysis are to be in accordance with MD-80036 OP 30005, 30007, and 30040. If the location fails to meet the most restrictive criteria then it will be sent to alpha spec for determination of the COC so the applicable, instead of the most restrictive, criteria can be applied.

Changes if any, from Pre-Ex SUD:

Item 3b

Chemical basis for std dev, AM COCs/New COCs NA

Item 4

Classify Areas & provide justification

The area SU1 is Class 1 due to historic presence of contaminants above CO.

The area SU2 is Class 1 due to historic presence of contaminants above CO.

Note: Given the geometry of the SUs it is not physically possible to achieve 100% scan coverage, therefore, a best effort will be given utilizing the standard VSAP, Final, August 2004, Section 4.4 Special Considerations.

Selection	Class	Scan Coverage guidelines
SU1-SU2	1	100%
	2	10-90%
	3	Judgmental

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Changes if any, from Pre-Ex SUD:	

Item 5	Subdivide area into SUs See attachment A for Data See Attachment B for SUs	This SUD consists of two SUs: SU1 is an area where contaminated soil was removed but verification samples were not collected. The location of SU1 is that portion of the salvage area that is below the Building 124 footprint. Verification samples will be collected at-depth at the former base of excavation. SU 1 is approximately 5,587 sq. ft in area. SU 2 includes the Building 124 footprint and a 15 foot buffer zone around the footprint and consists of surface samples within an approximate 10,492 sq. ft. area.
	Changes if any, from Pre-Ex SUD:	

Item 6a	Calculations / Rad Calculate the (s) for each COC listed above: See Appendix I. Number of Samples (N): See Appendix I. Spreadsheet Calculated = 11 samples based upon the data for both SUs. SU1 Scanning MDC (Area Factor) corrected = 192 samples SU2 Scanning MDC (Area Factor) corrected = 360 samples Visual Sample Plan (VSP) 15 foot triangular grid: SU1 Selected Samples (on Map) = 26 samples SU2 Selected Samples (on Map) = 53 samples The determination of the number of samples is consistent with section 3.7 of the standard VSAP, which provides default grid spacing for SUs where PU-238 is the primary driver in the removal action. Sample locations were selected by VSP with sampling goals of finding a Hot Spot utilizing a 15-foot triangular grid with a random starting point. Additional samples chosen via judgmental sampling. A total of 79 sample locations will be assessed.
	Changes if any, from Pre-Ex SUD:

Item 6b	Calculations/Chemical, Std dev, Number of Samples	NA
	Changes if any, from Pre-Ex SUD:	

Item 7	Grid spacing	From Appendix I. Triangular 15 foot grid, laid out by Visual Sample Plan.
	Changes if any, from Pre-Ex SUD:	

Item 8	QA/QC: 1/20 via field duplicate in accordance with Mound Methods Compendium. Q-002 Chain-of-Custody Procedures Q-003 Documentation Requirements Q-004 Laboratory Data Reduction Q-006 Validation of Laboratory Data Packages Q-007 Data Assessment Q-008 Data Integrity Verification Q-010 Electronic Data Deliverable Format Specifications – MEIMS Std. ... S-001 General Instructions for Field Personnel S-002 Soil Sampling With a Spade and Scoop S-028 Sample Control and Documentation S-029 Guide to Handling, Packaging, and Shipping of Samples and Method Q-002

Item 9	Bias/judgement samples (Additional bias samples are always within the discretion of the EPA.)	CH2M Hill plans no bias samples at this time.

Item 10	Not otherwise covered / comments Site policy requires performance of onsite soil screening (NaI or germanium) on verification samples slated for offsite analysis and evaluation of the results prior to shipment. This analysis will generally be performed on a split of the verification sample containerized in an EPA dish (approximately 500 mL) but may be performed on the actual verification sample as long as containerization requirements are maintained for the offsite lab. Count time of the analysis will be sufficient to meet the cleanup objectives (COs) of the contaminants of concern (COCs) requiring verification. If there is an insufficient volume of material to fill an EPA dish within a 1m x 1m square centered on the proposed sample location, due to bedrock or obstruction (such as a structure, foundation, concrete, pavement/asphalt, large rock formations, utility bank, etc. which is not to be removed), then sediment/soil analysis will not be performed. In lieu of a sediment/soil analysis result, RadCon will survey the surface per COs and provide documentation thereof in an RSDS. Potentially impacted work area atop the excavation, where excavated sediment/material was loaded into haulers, and are not hard surfaces (e.g., concrete and asphalt) are shown as an additional SU. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are hard surfaces (e.g., concrete and asphalt) will be surveyed and released per RadCon procedures. The RSDS(s) will be included as documentation. Any final sample location that does not meet the surface release criteria will be submitted to the Core Team for concurrence or determination of further action. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are not hard surfaces (i.e., concrete and asphalt) are shown as part of the SU. Potentially impacted work area atop the excavation, where excavated materials were loaded into haulers, and are hard surfaces (i.e., concrete and asphalt) will be surveyed and released per RadCon procedures in accordance with Mound 2000 Work Plan Appendix A Table 1.

APPENDIX D

BACKFILL PACKAGES

- Standard VSAP Backfill Info for PRS 41
  (submitted to regulators in September 2005)
- Standard VSAP Backfill Info not required for the Salvage Area/Building 124

STD VSAP BACKFILL INFO

This information will be represented in the Data Report.

For: PRS 41 PARTIAL

Checklist:

(per Section 5.6 of Std VSAP, Final, Aug 04)

- ☑ final Graphic
  (show sample locations & note any >CO and/or >HS)
- ☑ sample results
  (show DLs, HS, COs, and COC std deviation(s))
- ☑ recalc of N
- ☐ Data Review & Validation
  (if available)
- ☐ Sign test
  (not required if all results <CO, see pg 19/21 of VSAP)
- ☑ retro curve

From: (sign/date) John W. Nichol July 28, 2005

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EXPLANTION PAGE
PRS 41 PARTIAL BACKFILL

Bias sample result EPA Bias PRS 41 OPA #4 was 2.79 pCi/g Th-232. The area was excavated, an additional walkover survey performed and contamination was chased as presented in Figure 1. RASS samples were collected to bound the area and it was verified with sample SU3-PRS41-029.

Sample location SU1-PRS41-007 was 4.1 pCi/g Th-232, 0.6 pCi/g Th-232 above Hot Spot criteria. The area was excavated; an additional walkover survey was performed and it was re-verified with sample SU1-PRS41-007A.

Table 1 provides the survey coordinates for the verification sample locations.

All final verification results as presented in Table 2 are <CO. Backfill process can proceed.

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TABLE 1

PRS 41 PARTIAL VERIFICATION SAMPLE COORDINATES

Area: SU-3							
X Coord	Y Coord	Z Coord	Label	Value	Type	Historical	Surface
1464070.094	598071.349	1.9949	SU3-PRS41-001	0	Random		Wall 19
1464143.855	598099.414	0	SU3-PRS41-002	0	Random		Floor
1464046.593	597866.312	0	SU3-PRS41-003	0	Random		Floor
1464139.617	598103.076	0	SU3-PRS41-004	0	Random		Floor
1464076.003	598081.886	0	SU3-PRS41-005	0	Random		Floor
1464064.158	598077.234	0.9097	SU3-PRS41-006	0	Random		Wall 31
1464122.366	598093.822	0	SU3-PRS41-029	0	Random		Floor
Area: SU-1							
X Coord	Y Coord	Z Coord	Label	Value	Type	Historical	Surface
1464028.520	598081.664	0	SU1-PRS41-007A	0	Systematic		Floor
1464055.043	598081.664	0	SU1-PRS41-008	0	Systematic		Floor
1464041.782	598104.634	0	SU1-PRS41-009	0	Systematic		Floor
1464055.043	598127.604	0	SU1-PRS41-010	0	Systematic		Floor
1464069.809	598114.605	0.2135	SU1-PRS41-011	0	Systematic		Wall 174
1464065.811	598138.241	0.2135	SU1-PRS41-012	0	Systematic		Wall 152
1464047.126	598132.205	0.2135	SU1-PRS41-013	0	Systematic		Wall 126
1464036.225	598110.468	0.2135	SU1-PRS41-014	0	Systematic		Wall 103
1464027.405	598088.810	0.2135	SU1-PRS41-015	0	Systematic		Wall 77
1464036.944	598069.304	0.2135	SU1-PRS41-016	0	Systematic		Wall 55
1464057.960	598077.317	0.2135	SU1-PRS41-017	0	Systematic		Wall 30
1464064.834	598100.350	0.2135	SU1-PRS41-018	0	Systematic		Wall 6
Area: SU-2							
X Coord	Y Coord	Z Coord	Label	Value	Type	Historical	Surface
1464127.368	598124.628	0	SU2-PRS41-019	0	Systematic		Floor
1464113.175	598126.119	0.0487	SU2-PRS41-020	0	Systematic		Wall 6
1464115.680	598134.815	0.0487	SU2-PRS41-021	0	Systematic		Wall 18
1464128.920	598129.716	0.0487	SU2-PRS41-022	0	Systematic		Wall 34
1464125.920	598117.538	0.0487	SU2-PRS41-023	0	Systematic		Wall 48
1464118.287	598121.262	13.3422	SU2-PRS41-024	0	Systematic		Wall 1
1464109.683	598132.736	13.3422	SU2-PRS41-025	0	Systematic		Wall 12
1464121.826	598130.693	13.3422	SU2-PRS41-026	0	Systematic		Wall 26
1464130.550	598123.090	13.3422	SU2-PRS41-027	0	Systematic		Wall 42
1464119.659	598121.119	13.3422	SU2-PRS41-028	0	Systematic		Wall 56

TABLE 2

PRS 41 PARTIAL, FINAL STATUS SURVEY

AREA: SU1						
	COC	U-238	Ra-226	Th-232		
	Mean	0.845	1.5675	0.85667		
	Std Dev	0.137	0.502	0.332		
	No. Sam.	12	12	12		
	CO	2.2	2.9	2.1		
	HS	4.2	4.7	3.5		
Sample Name	Lab Sample	Date Collected	Analyte Name	Result	MDC	Analytical Units
SU1-PRS41-007A	F5F210265001	6/16/2005	Thorium-232	0.48	0.01	PCI/G
SU1-PRS41-008	F5F080202002	5/26/2005	Thorium-232	0.79	0.02	PCI/G
SU1-PRS41-009	F5F080202003	5/26/2005	Thorium-232	0.84	0.01	PCI/G
SU1-PRS41-010	F5F080202004	5/26/2005	Thorium-232	0.77	0.04	PCI/G
SU1-PRS41-011	F5F080202005	5/26/2005	Thorium-232	0.69	0.01	PCI/G
SU1-PRS41-012	F5F080202006	5/26/2005	Thorium-232	0.9	0.01	PCI/G
SU1-PRS41-013	F5F080202008	5/26/2005	Thorium-232	0.53	0.02	PCI/G
SU1-PRS41-014	F5F080202009	5/26/2005	Thorium-232	0.94	0.03	PCI/G
SU1-PRS41-015	F5F080202010	5/26/2005	Thorium-232	1.09	0.02	PCI/G
SU1-PRS41-016	F5F080202011	5/26/2005	Thorium-232	0.96	0.03	PCI/G
SU1-PRS41-017	F5F080202012	5/26/2005	Thorium-232	1.73	0.02	PCI/G
SU1-PRS41-018	F5F080202013	5/26/2005	Thorium-232	0.56	0.03	PCI/G
SU1-PRS41-007	F5F080202001	5/26/2005	Uranium 238	1.13	0.04	PCI/G
SU1-PRS41-008	F5F080202002	5/26/2005	Uranium 238	0.75	0.01	PCI/G
SU1-PRS41-009	F5F080202003	5/26/2005	Uranium 238	0.67	0.01	PCI/G
SU1-PRS41-010	F5F080202004	5/26/2005	Uranium 238	0.77	0.03	PCI/G
SU1-PRS41-011	F5F080202005	5/26/2005	Uranium 238	0.93	0.02	PCI/G
SU1-PRS41-012	F5F080202006	5/26/2005	Uranium 238	0.74	0.03	PCI/G
SU1-PRS41-013	F5F080202008	5/26/2005	Uranium 238	0.76	0.02	PCI/G
SU1-PRS41-014	F5F080202009	5/26/2005	Uranium 238	0.91	0.02	PCI/G
SU1-PRS41-015	F5F080202010	5/26/2005	Uranium 238	0.87	0.02	PCI/G
SU1-PRS41-016	F5F080202011	5/26/2005	Uranium 238	0.86	0.01	PCI/G
SU1-PRS41-017	F5F080202012	5/26/2005	Uranium 238	1.03	0.02	PCI/G
SU1-PRS41-018	F5F080202013	5/26/2005	Uranium 238	0.72	0.02	PCI/G
SU1-PRS41-007A	GL06208	6/16/2005	Radium-226	0.73	0.8	PCI/G
SU1-PRS41-008	GL05993	5/26/2005	Radium-226	1.49	1.02	PCI/G
SU1-PRS41-009	GL05994	5/31/2005	Radium-226	1.17	0.88	PCI/G
SU1-PRS41-010	GL05595	5/26/2005	Radium-226	1.4	0.73	PCI/G
SU1-PRS41-011	GL05996	5/26/2005	Radium-226	1.97	1.02	PCI/G
SU1-PRS41-012	GL05997	5/26/2005	Radium-226	1.07	1.17	PCI/G
SU1-PRS41-013	GL05999	5/26/2005	Radium-226	1.31	0.79	PCI/G
SU1-PRS41-014	GL06000	5/26/2005	Radium-226	1.83	0.76	PCI/G
SU1-PRS41-015	GL06001	5/26/2005	Radium-226	1.46	0.85	PCI/G
SU1-PRS41-016	GL06002	5/26/2005	Radium-226	2.63	0.92	PCI/G
SU1-PRS41-017	GL06003	5/26/2005	Radium-226	1.83	0.89	PCI/G
SU1-PRS41-018	GL06004	5/21/2005	Radium-226	1.92	0.96	PCI/G

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TABLE 2

PRS 41 PARTIAL, FINAL STATUS SURVEY

AREA: SU2						
		COC		Th-232		
		Mean		0.5735		
		Std Dev		0.19928		
		No. Sam.		10		
		CO		2.1		
		HS		3.5		
Sample Name	Lab Sample	Date Collected	Analyte Name	Result	MDC	Analytical Units
SU2-PRS41-019	F5F080202014	5/26/2005	Thorium-232	0.41	0.03	PCI/G
SU2-PRS41-020	F5F080202015	5/26/2005	Thorium-232	0.46	0.02	PCI/G
SU2-PRS41-021	F5F080202016	5/26/2005	Thorium-232	0.47	0.03	PCI/G
SU2-PRS41-022	F5F080202018	5/26/2005	Thorium-232	0.48	0.03	PCI/G
SU2-PRS41-023	F5F080202019	5/26/2005	Thorium-232	0.47	0.02	PCI/G
SU2-PRS41-024	F5F080202020	5/26/2005	Thorium-232	0.65	0.02	PCI/G
SU2-PRS41-025	F5F080272001	5/26/2005	Thorium-232	0.415	0.012	PCI/G
SU2-PRS41-026	F5F080272002	5/26/2005	Thorium-232	1.06	0.02	PCI/G
SU2-PRS41-027	F5F080272003	5/26/2005	Thorium-232	0.61	0.02	PCI/G
SU2-PRS41-028	F5F080272004	5/26/2005	Thorium-232	0.71	0.01	PCI/G
AREA: SU3						
		COC		**Th-232**		
		Mean		0.66367		
		Std Dev		0.3775		
		No. Sam		7		
		CO		2.1		
		HS		**3.5**		
Sample Name	Lab Sample	Date Collected	Analyte Name	Result	MDC	Analytical Units
SU3-PRS41-001	F5F080272005	5/26/2005	Thorium-232	0.399	0.011	PCI/G
SU3-PRS41-002	F5F080272006	5/26/2005	Thorium-232	1.02	0.01	PCI/G
SU3-PRS41-003	F5F080272007	5/25/2005	Thorium-232	0.327	0.015	PCI/G
SU3-PRS41-004	F5F080272008	5/26/2005	Thorium-232	0.93	0.02	PCI/G
SU3-PRS41-005	F5F080272009	5/26/2005	Thorium-232	0.226	0.013	PCI/G
SU3-PRS41-006	F5F080272010	5/26/2005	Thorium-232	1.08	0.01	PCI/G
SU3-PRS41-029	F5F210265002	6/21/2005	Thorium-232	1.02	0.02	PCI/G
Duplicates:						
SU1-PRS41-007D	F5F210265001X	6/16/2005	Thorium-232	0.63	0.02	PCI/G
SU1-PRS41-007FD	F5F210265003	6/16/2005	Thorium-232	0.74	0.02	PCI/G
SU1-PRS41-012D	F5F080202007	5/26/2005	Thorium-232	1.07	0.03	PCI/G
SU2-PRS41-021D	F5F080202017	5/26/2005	Thorium-232	0.5	0.03	PCI/G
SU2-PRS41-025D	F5F080272001X	5/26/2005	Thorium-232	0.445	0.019	PCI/G
SU1-PRS41-007D	F5F080202001X	5/26/2005	Uranium 238	0.99	0.03	PCI/G
SU1-PRS41-012D	F5F080202007	5/26/2005	Uranium 238	0.7	0.02	PCI/G
SU1-PRS41-007FD	GL06209	6/16/2005	Radium 226	1.1	0.58	PCI/G
SU1-PRS41-012D	GL05998	5/26/2005	Radium 226	2.11	0.86	PCI/G

D5/12

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
	Ac-227+D	4.6	(pCi/g)
	Am-241	63	(pCi/g)
	Ce-141	38	(pCi/g)
	Cs-137+D	3.8	(pCi/g)
	Co-60	0.7	(pCi/g)
	Cu-244	92	(pCi/g)
	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
	Pa-231+D	4	(pCi/g)
0.502	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
	Th-230+D	2.8	(pCi/g)
0.332	Th-232+D	2.1	(pCi/g)
	U-233+D	4.8	(pCi/g)
	U-234	106.1	(pCi/g)
	U-234+D	2	(pCi/g)
	U-235	16.11	(pCi/g)
	U-235+D	3.2	(pCi/g)
	U-238	121.2	(pCi/g)
0.137	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05	*Estimate (N) - Sign Test*	
$Z_{1\text{-alpha}}$	1.645	DCGL	1
Type II Error	0.2	LBGR	0.50
$Z_{1\text{-beta}}$	0.842	Delta	0.50
		(s)	0.24
		Rel Shift	2.061
Effective	0.24 *(s)*	*(N)*	9.00
Sign p	0.977250	Pu-238 Area Factor (N)	NA

Calculate the Total Effective (s)

Sample Grid Spacing			Sample Grid Spacing		
SU Area	284.19	m^2	SU Area	3055.82	ft^2
Grid Length	5.2	m	Grid Length	17.2	ft
Grid Height	4.5	m	Grid Height	14.9	ft

PRS	41	**Survey Unit**	1

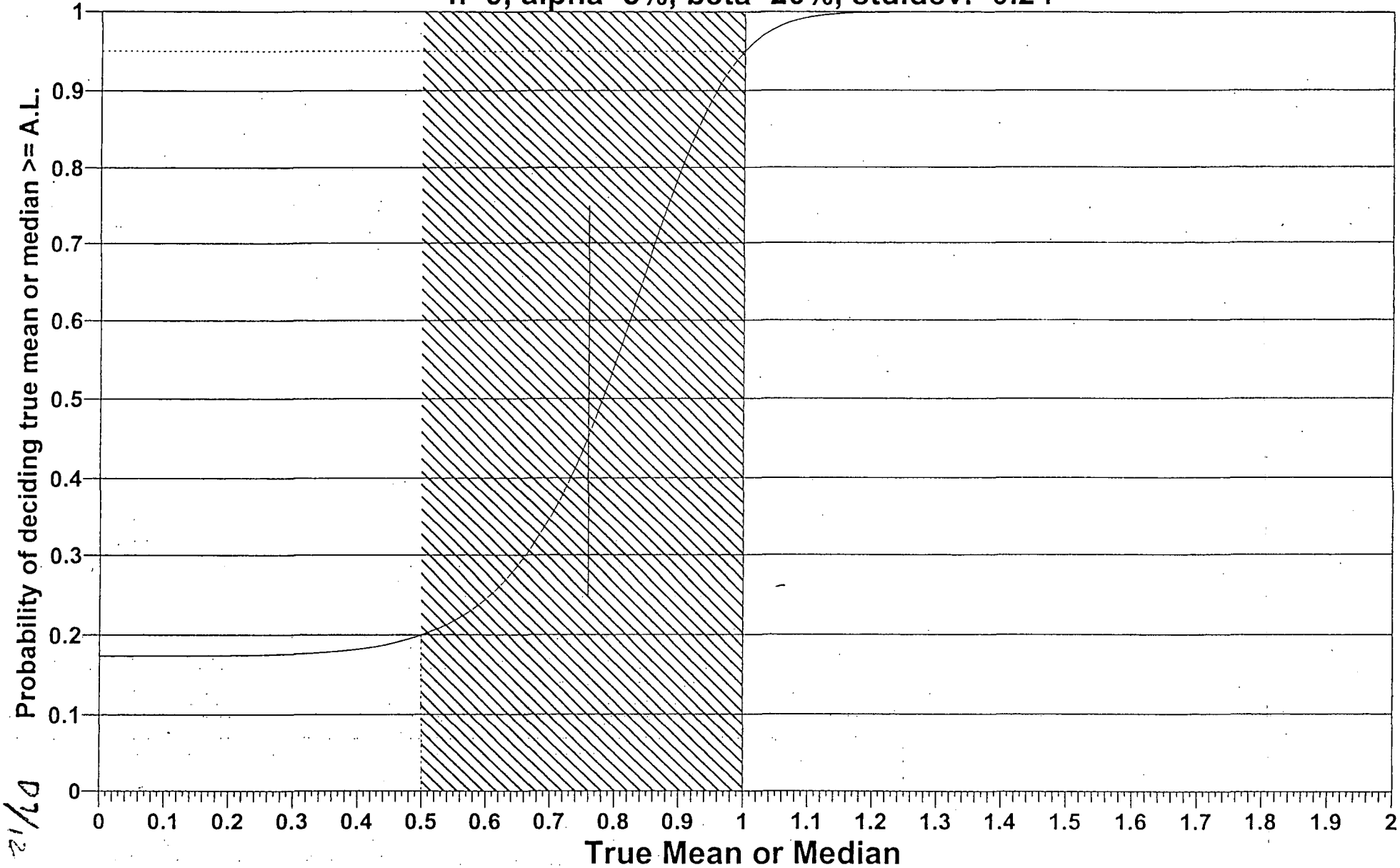
Scanning MDC for U-238 per the Standard VSAP is 1.01
Therefore, no change to # of calculated samples was made

21/90

SU1 Retro

MARSSIM Sign Test

n=9, alpha=5%, beta=20%, std.dev.=0.24



D7/12

6/11

PRS 41 PARTIAL SU2 MARSSIM CALCULATION SHEET

08/17/05

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
	Th-230+D	2.8	(pCi/g)	164.89
0.20	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05		
$Z_{1\text{-alpha}}$	1.645		
Type II Error	0.2		
$Z_{1\text{-beta}}$	0.842		
	0.20	(s)	
Sign p	0.993790		

Calculate the Total Effective (s)

Estimate (N) - Sign Test	
DCGL	2.1
LBGR	1.51
Delta	0.59
(s)	0.20
Rel Shift	2.965
(N)	8.00

Sample Grid Spacing:

SU Area	132	m^2	1,417	ft^2
Grid Length	3.8	m	40.6	ft
Grid Height	3.3	m	35.2	ft

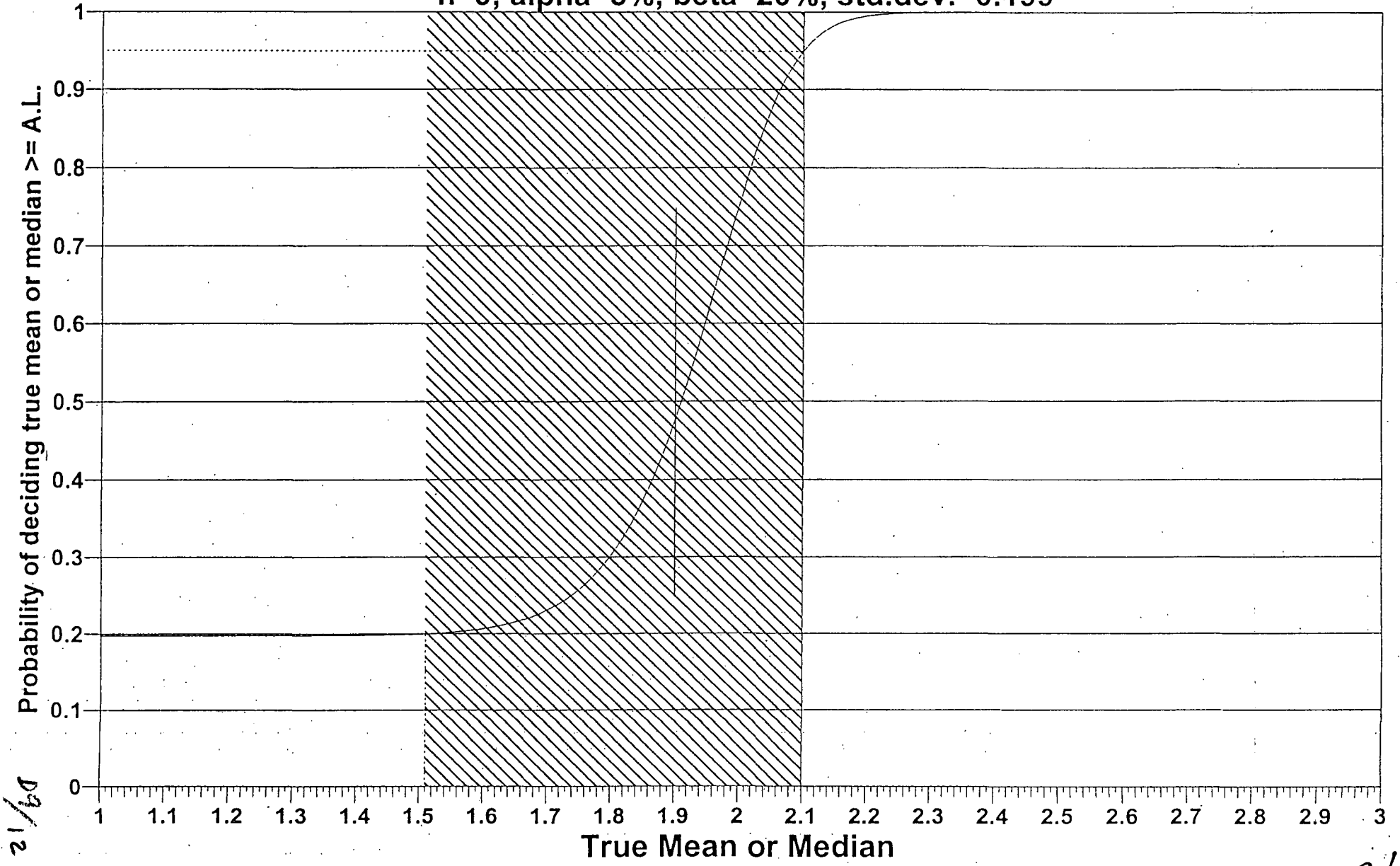
PRS	41	**Survey Unit**	2

28/12

SU2 Retro

MARSSIM Sign Test

n=9, alpha=5%, beta=20%, std.dev.=0.199



8/11

PRS 41 PARTIAL SU3 MARSSIM CALCULATION SHEET

9/7/2005

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units	SMDC Area Factor
	Ac-227+D	4.6	(pCi/g)	0.97
	Am-241	63	(pCi/g)	
	Ce-141	38	(pCi/g)	
	Cs-137+D	3.8	(pCi/g)	0.34
	Co-60	0.7	(pCi/g)	
	Cu-244	92	(pCi/g)	
	Pb-210+D	7.4	(pCi/g)	
	Np-237+D	10.4	(pCi/g)	
	Ni-95	2.5	(pCi/g)	
	Pu-238	55	(pCi/g)	6.36
	Pu-239/240	62	(pCi/g)	
	Pa-231+D	4	(pCi/g)	
	Ra-226+D	2.9	(pCi/g)	0.33
	Ra-228	2.1	(pCi/g)	
	Th-228+D	2.6	(pCi/g)	
	Th-230+D	2.8	(pCi/g)	164.89
0.38	Th-232+D	2.1	(pCi/g)	0.48
	U-233+D	4.8	(pCi/g)	
	U-234	106.1	(pCi/g)	3.95
	U-234+D	2	(pCi/g)	
	U-235	16.11	(pCi/g)	
	U-235+D	3.2	(pCi/g)	
	U-238	121.2	(pCi/g)	
	U-238+D	2.2	(pCi/g)	5.07
	Bi-207	1.2	(pCi/g)	
	Bi-210m	8.3	(pCi/g)	
	Tc-99	2140	(pCi/g)	
	Sr-90	94.72	(pCi/g)	1.85

Type I Error	0.05	
$Z_{1\text{-alpha}}$	1.645	
Type II Error	0.2	
$Z_{1\text{-beta}}$	0.842	
	0.38	*(s)*
Sign p	0.993790	

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	2.1
LBGR	1.05
Delta	1.05
(s)	0.38
Rel Shift	2.778
(N)	8.00

Sample Grid Spacing:

SU Area	45	m^2	487	ft^2
Grid Length	2.2	m	23.8	ft
Grid Height	1.9	m	20.6	ft

PRS	41	Survey Unit	3

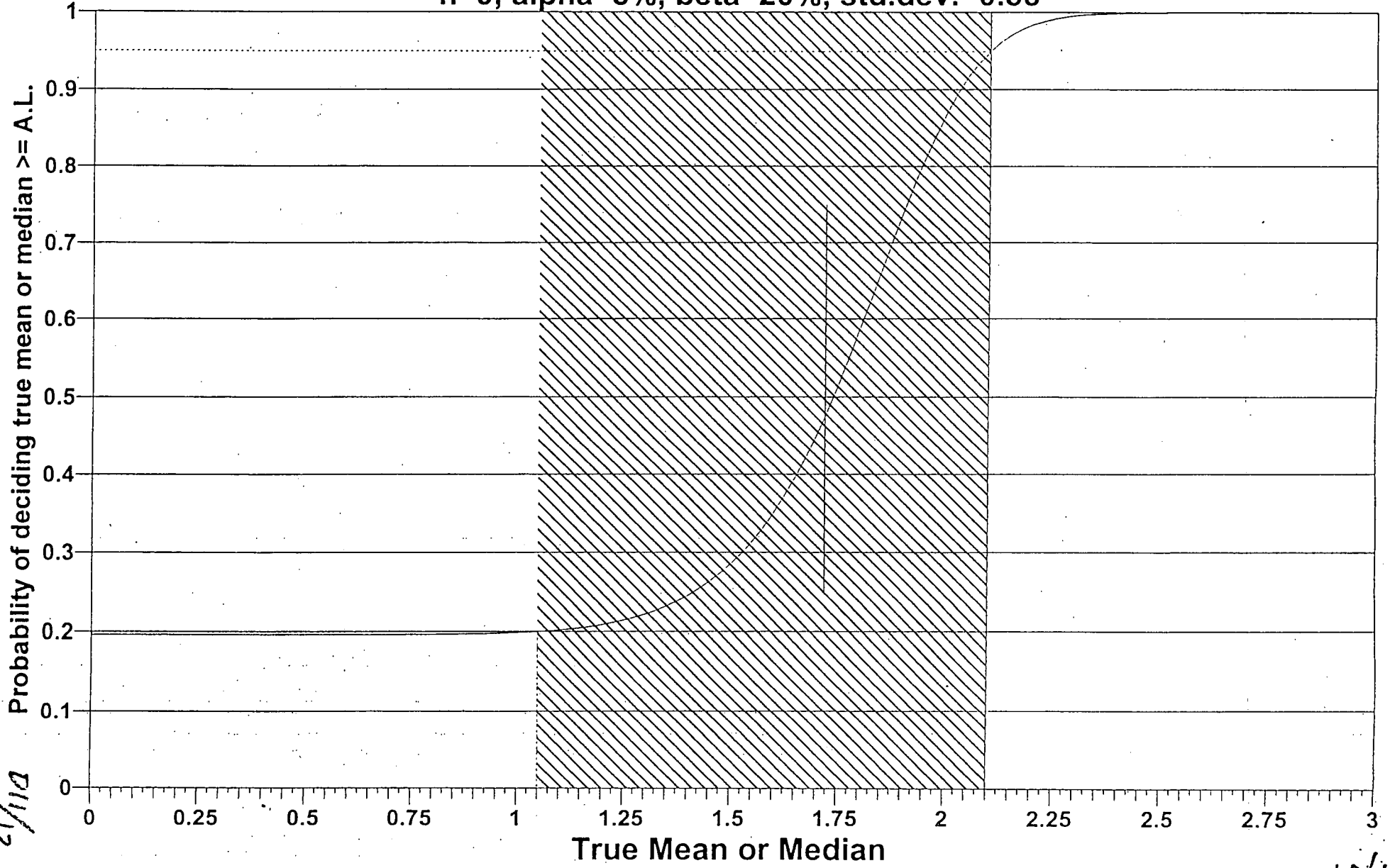
NOTE:
SU3 will have 6 samples locations due to Special Considerations for Small Survey Units, 3.5.1 SVSAP
See item 10 of the Post-Ex SUD

21/010

SU3 Retro

MARSSIM Sign Test

n=9, alpha=5%, beta=20%, std.dev.=0.38



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Data Review and Validation

The formal Data Review and Validation portion of this backfill package is not available, but will be included in the Data Report for PRS 41 Partial.

John W. Nichols **August 18, 2005**

John W. Nichols, Project Engineer

012/12

APPENDIX E

DATA REVIEW & VALIDATION

- R&V for PRS 41
- R&V for the Salvage Area/Building 124 Footprint

Review & Validation Report #1

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Acronyms

%D	percent difference
NAD	normalized absolute difference
MB	method blank
MDC	minimum detectable concentration
PRS	potential release site
RPD	relative percent difference
RSD	relative standard deviation
SDG	sample delivery group
SOW	scope of work

1.0 Introduction and Summary

1.1 Introduction

This data assessment has been prepared to describe the data quality for the PRS 41 Partial verification samples. The work was generally performed in compliance with the Statement of Work (SOW) issued February 3, 2005 and the Amendment dated June of 2005; the Standard VSAP, Soils Verification Sampling & Analysis Plan, Final dated August 2004; technical direction, sample maps, and target parameters provided by CH2M Hill Mound for the PRS 41 Partial sample event, and the Mound Methods Compendium. Data assessment encompasses two types of quality control reviews on the data: data review and data validation. Data review involves a review of the basic quality control data included in the laboratory data package, e.g., laboratory blanks, surrogate recoveries, matrix spike recoveries, and field duplicates. All (100%) of the data are reviewed. Data validation is a detailed review of the laboratory data packages that includes all of the data review elements plus verification of such things as proper instrument calibration, instrument calibration validity during sample analysis, identification of target analytes, and proper treatment and quantification of the data. The results of the data validation are assessed to identify whether any systemic problems are apparent. Suspect values are flagged to assure the validity of the data to the user. While only 10% of the data is required to be validated, data validation was performed on 100% of the samples. Both data review and validation are combined and discussed below.

2.0 Data Review / Validation

The quality control data submitted with the analytical data packages were reviewed and validated. The results of the assessment are presented in this section. The following qualifications were used to indicate data quality problems identified during the data validation process.

Table 1 — Data Validation Qualifications

Qualification	Qualification Description
=	The sample result is positively identified and quantified.
J	The associated positive sample result is estimated.
J/UJ	The associated positive and not-detected sample results are qualified estimated.
UJ	The associated not-detected sample result is qualified estimated.
U	The associated sample result is qualified not detected.
R	The associated sample result is rejected and unusable.

Reason Codes are used to assign meaning to the qualifiers used. The following are the reason codes that were applied to this project.

Table 2 – Validation Reason Codes

Reason Code	Reason Code Description
J01	Duplicate RPD/radiological duplicate error ratio (DER) was outside the control limit.
T04	Professional judgment was used to qualify the data.
T05	Analytical result is less than the associated MDC, but greater than the counting uncertainty.
T06	Analytical result is Less than both the associated counting uncertainty and MDC.

MDC: minimum detectable activity
RPD: relative percent difference

This sampling effort is discussed in four sections: field quality assurance (QA) frequency, gamma spectroscopy, isotopic thorium, and isotopic uranium. The data validation of each of these types of analyses is discussed in the following subsections. The validated results are presented in "R and V #1 Table" which immediately follows this report.

2.1 Field QA Frequency

The field team is responsible for introducing or specifying field quality control samples. The frequency of these samples is discussed below.

2.1.1 Equipment Rinsates

Equipment rinsate samples were not required for this sampling effort. The field team used a dry decon method and equipment along with the dry wipes that were used during the decon process were scanned in the field to monitor the decon process.

2.1.2 Field Duplicates

Field duplicates demonstrate that the collection technique was adequately precise. Two (2) field duplicates were collected for twenty-eight (28) field samples for a frequency of 7.1%. This meets the planned collection goal of five percent. The field duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. For the two pairs, fourteen analytes were compared, making a total of twenty-eight (28) comparisons. None of the comparisons exceeded an RPD of 35%. The field collection efforts were sufficiently precise. No qualification of the data is necessary.

2.1.3 Matrix Spikes

Matrix spikes (MSs) and matrix spike duplicates (MSDs) are prepared to verify that the sample matrix is not interfering with the accurate and precise determination of target parameters in non-radiological fractions. This effort included only radiological fractions, therefore no matrix spikes/matrix spike duplicates were analyzed.

2.1.4 Trip Blanks

Trip blanks are included in each shipping container used to transport samples for volatile analysis. This sampling effort did not include samples analyzed for volatile analytes. No trip blank was analyzed.

2.2 *Gamma Spectroscopy*

The field team submitted thirty (30) samples for gamma spectroscopy analysis. The associated quality control result assessments are discussed in the following subsections.

2.2.1 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each sample delivery group (SDG) had one laboratory blank per analytical run. All laboratory blanks were non-detect. No blank contamination of the samples was detected.

2.2.2 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analytical precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. The laboratory analyzed one duplicate pair for each analytical run. Both laboratory duplicates had RPDs below 35%. No qualification of the data is required for isotopic thorium due to laboratory precision.

2.2.3 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analytical accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.2.4 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04.

Twenty records (9.3% of the gamma spec records) had results qualified as estimated (J) with a reason code T04.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. Two (2) records (<1% of the gamma spec records) had results qualified non-detect (U) with a reason code T05.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. Twenty-eight (28) records (12% of the gamma spec records) had results qualified as non-detect, estimated (UJ) with a reason code T06.

2.3 Isotopic Thorium

The field team submitted thirty (30) samples for isotopic thorium analysis. The associated quality control result assessments are discussed in the following subsections.

2.3.1 Yields

Non-target isotopes are added to samples just prior to digestion and separation. The non-target isotopes are used to determine the digestion, separation, and analysis efficiencies. These non-target isotope recoveries are expressed as yields and used to calculate the target isotope activities.

2.3.2 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each SDG had one laboratory blank per analytical run. All laboratory blanks were non-detect. No blank contamination of the samples was detected.

2.3.3 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analysis precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences.

Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the RPD was calculated. The laboratory analyzed one duplicate pair for each analytical run.

2.3.4 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analysis accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.3.5 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. None of the isotopic thorium results required this qualification.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. None of the isotopic thorium results required this qualification.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. None of the isotopic thorium results required this qualification.

2.4 Isotopic Uranium

The field team submitted thirteen (13) samples for isotopic uranium analysis. The associated quality control result assessments are discussed in the following subsections.

2.4.1 Yields

Non-target isotopes are added to samples just prior to digestion and separation. The non-target isotopes are used to determine the digestion, separation, and analysis efficiencies. These non-target isotope recoveries are expressed as yields and used to calculate the target isotope activities. All yields for uranium analysis were within control limits. No qualifications to the usability of the data are required based on the yield recoveries.

2.4.2 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each sample delivery group (SDG) had one laboratory blank per analytical run. All laboratory blanks were non-detect for uranium. No blank contamination of the samples was detected.

2.4.3 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analysis precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculateable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. The laboratory analyzed one duplicate pair for each analytical run.

The Uranium-234 duplicate pair associated with the SDG F5F080202 exceeded the RPD control limit of 35%. Uranium-234 samples results associated with this SDG were qualified as estimated (J) with a reason code J01.

2.4.4 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analysis accuracy. A LCS is a control sample of known composition. A percent recovery within control limits

demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.4.5 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. Twelve (12) Uranium-235 records (92.3% of the isotopic uranium samples) had Uranium-235 results qualified as estimated (J) with a reason code T04.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. None of the samples had isotopic uranium results qualified non-detect (U) with a reason code T05.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. One Uranium-235 sample (7.7% of the isotopic uranium samples) had Uranium-235 results qualified as non-detect, estimated (UJ) with a reason code T06.

3.0 References

Reference 1: *Methods Compendium*. Mound Plant, Miamisburg OH. Technical Manual MD-80045, Issue 2, January 2002.

Reference 2: *Data Validation*. Science Application International Corporation. Technical Procedure-Data Management-300-7, Revision 5, February 2004.

R and V #1 Table

(see R and V Report text for additional info)

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU1-PRS41-007	F5F080202	EML A-01-R	Thorium-228	4.03	0.59	0.06	PCI/G	=	
SU1-PRS41-007	F5F080202	EML A-01-R	Thorium-230	2.27	0.36	0.03	PCI/G	=	
SU1-PRS41-007	F5F080202	EML A-01-R	Thorium-232	4.1	0.59	0.02	PCI/G	=	
SU1-PRS41-007	F5F080202	EML A-01-R	Uranium 234	0.93	0.18	0.04	PCI/G	J	J01
SU1-PRS41-007	F5F080202	EML A-01-R	Uranium 235	0.07	0.044	0.028	PCI/G	J	T04
SU1-PRS41-007	F5F080202	EML A-01-R	Uranium 238	1.13	0.21	0.04	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Actinium 228	2.29	0.7	0.28	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Bismuth 212	1.48	0.76	0.92	PCI/G	J	T04
SU1-PRS41-007	F5F080202	EPA 901.1	Bismuth 214	0.81	0.25	0.18	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Cesium 137	0.047	0.061	0.12	PCI/G	UJ	T06
SU1-PRS41-007	F5F080202	EPA 901.1	Lead 212	1.73	0.3	0.19	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Lead 214	0.77	0.21	0.19	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Potassium 40	11.8	2.3	0.9	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Radium 228	2.29	0.52	0.25	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Thallium 208	0.85	0.16	0.08	PCI/G	=	
SU1-PRS41-007	F5F080202	EPA 901.1	Thorium-232	2.29	0.52	0.25	PCI/G	=	
SU1-PRS41-008	F5F080202	EML A-01-R	Thorium-228	0.84	0.17	0.06	PCI/G	=	
SU1-PRS41-008	F5F080202	EML A-01-R	Thorium-230	1.02	0.19	0.03	PCI/G	=	
SU1-PRS41-008	F5F080202	EML A-01-R	Thorium-232	0.79	0.16	0.02	PCI/G	=	
SU1-PRS41-008	F5F080202	EML A-01-R	Uranium 234	0.64	0.14	0.03	PCI/G	J	J01
SU1-PRS41-008	F5F080202	EML A-01-R	Uranium 235	0.072	0.046	0.018	PCI/G	J	T04
SU1-PRS41-008	F5F080202	EML A-01-R	Uranium 238	0.75	0.15	0.01	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Actinium 228	0.47	0.24	0.23	PCI/G	J	T04
SU1-PRS41-008	F5F080202	EPA 901.1	Bismuth 214	0.53	0.17	0.15	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Cesium 137	0.013	0.042	0.087	PCI/G	UJ	T06
SU1-PRS41-008	F5F080202	EPA 901.1	Lead 212	0.48	0.12	0.11	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Lead 214	0.58	0.16	0.11	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Potassium 40	8.7	1.7	0.7	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Radium 228	0.47	0.22	0.23	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Thallium 208	0.174	0.069	0.075	PCI/G	=	
SU1-PRS41-008	F5F080202	EPA 901.1	Thorium-232	0.47	0.22	0.23	PCI/G	=	
SU1-PRS41-009	F5F080202	EML A-01-R	Thorium-228	0.89	0.17	0.04	PCI/G	=	
SU1-PRS41-009	F5F080202	EML A-01-R	Thorium-230	0.9	0.17	0.03	PCI/G	=	
SU1-PRS41-009	F5F080202	EML A-01-R	Thorium-232	0.84	0.17	0.01	PCI/G	=	
SU1-PRS41-009	F5F080202	EML A-01-R	Uranium 234	0.67	0.15	0.03	PCI/G	J	J01
SU1-PRS41-009	F5F080202	EML A-01-R	Uranium 235	0.013	0.023	0.018	PCI/G	UJ	T06
SU1-PRS41-009	F5F080202	EML A-01-R	Uranium 238	0.67	0.15	0.01	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Actinium 228	0.87	0.33	0.23	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Bismuth 214	0.77	0.21	0.15	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Cesium 137	0.004	0.044	0.087	PCI/G	UJ	T06
SU1-PRS41-009	F5F080202	EPA 901.1	Lead 212	0.58	0.15	0.15	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Lead 214	0.52	0.18	0.14	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Potassium 40	10.7	2.3	0.9	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Radium 228	0.87	0.28	0.23	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Thallium 208	0.268	0.084	0.091	PCI/G	=	
SU1-PRS41-009	F5F080202	EPA 901.1	Thorium-232	0.87	0.28	0.23	PCI/G	=	
SU1-PRS41-010	F5F080202	EML A-01-R	Thorium-228	0.73	0.16	0.06	PCI/G	=	
SU1-PRS41-010	F5F080202	EML A-01-R	Thorium-230	0.89	0.17	0.04	PCI/G	=	
SU1-PRS41-010	F5F080202	EML A-01-R	Thorium-232	0.77	0.16	0.04	PCI/G	=	
SU1-PRS41-010	F5F080202	EML A-01-R	Uranium 234	0.87	0.18	0.03	PCI/G	J	J01

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(see R and V Report text for additional info)

SU1-PRS41-010	F5F080202	EML A-01-R	Uranium 235	0.096	0.054	0.03	PCI/G	J	T04
SU1-PRS41-010	F5F080202	EML A-01-R	Uranium 238	0.77	0.16	0.03	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Actinium 228	0.62	0.23	0.25	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Bismuth 214	0.48	0.14	0.14	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Cesium 137	0.059	0.043	0.091	PCI/G	U	T05
SU1-PRS41-010	F5F080202	EPA 901.1	Lead 212	0.38	0.1	0.11	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Lead 214	0.47	0.14	0.11	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Potassium 40	8	1.8	0.8	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Radium 228	0.62	0.19	0.25	PCI/G	=	
SU1-PRS41-010	F5F080202	EPA 901.1	Thallium 208	0.122	0.082	0.066	PCI/G	J	T04
SU1-PRS41-010	F5F080202	EPA 901.1	Thorium-232	0.62	0.19	0.25	PCI/G	=	
SU1-PRS41-011	F5F080202	EML A-01-R	Thorium-228	0.87	0.17	0.05	PCI/G	=	
SU1-PRS41-011	F5F080202	EML A-01-R	Thorium-230	1.23	0.21	0.02	PCI/G	=	
SU1-PRS41-011	F5F080202	EML A-01-R	Thorium-232	0.69	0.14	0.01	PCI/G	=	
SU1-PRS41-011	F5F080202	EML A-01-R	Uranium 234	0.83	0.16	0.01	PCI/G	J	J01
SU1-PRS41-011	F5F080202	EML A-01-R	Uranium 235	0.032	0.032	0.017	PCI/G	J	T04
SU1-PRS41-011	F5F080202	EML A-01-R	Uranium 238	0.93	0.18	0.02	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Actinium 228	0.92	0.39	0.29	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Bismuth 214	0.74	0.23	0.18	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Cesium 137	-0.031	0.057	0.097	PCI/G	UJ	T06
SU1-PRS41-011	F5F080202	EPA 901.1	Lead 212	0.56	0.17	0.18	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Lead 214	0.95	0.2	0.14	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Potassium 40	13.7	2.6	0.9	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Radium 228	0.92	0.34	0.29	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Thallium 208	0.227	0.089	0.094	PCI/G	=	
SU1-PRS41-011	F5F080202	EPA 901.1	Thorium-232	0.92	0.34	0.29	PCI/G	=	
SU1-PRS41-012	F5F080202	EML A-01-R	Thorium-228	0.86	0.17	0.05	PCI/G	=	
SU1-PRS41-012	F5F080202	EML A-01-R	Thorium-230	0.81	0.16	0.01	PCI/G	=	
SU1-PRS41-012	F5F080202	EML A-01-R	Thorium-232	0.9	0.17	0.01	PCI/G	=	
SU1-PRS41-012	F5F080202	EML A-01-R	Uranium 234	0.71	0.15	0.03	PCI/G	J	J01
SU1-PRS41-012	F5F080202	EML A-01-R	Uranium 235	0.054	0.04	0.034	PCI/G	J	T04
SU1-PRS41-012	F5F080202	EML A-01-R	Uranium 238	0.74	0.15	0.03	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Actinium 228	0.86	0.34	0.22	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Bismuth 214	0.52	0.15	0.14	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Cesium 137	-0.01	0.047	0.091	PCI/G	UJ	T06
SU1-PRS41-012	F5F080202	EPA 901.1	Lead 212	0.75	0.15	0.15	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Lead 214	0.64	0.15	0.12	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Potassium 40	11	2.1	0.8	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Radium 228	0.86	0.28	0.22	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Thallium 208	0.247	0.08	0.09	PCI/G	=	
SU1-PRS41-012	F5F080202	EPA 901.1	Thorium-232	0.86	0.28	0.22	PCI/G	=	
SU1-PRS41-012D	F5F080202	EML A-01-R	Thorium-228	1.22	0.23	0.04	PCI/G	=	
SU1-PRS41-012D	F5F080202	EML A-01-R	Thorium-230	1.09	0.21	0.03	PCI/G	=	
SU1-PRS41-012D	F5F080202	EML A-01-R	Thorium-232	1.07	0.21	0.03	PCI/G	=	
SU1-PRS41-012D	F5F080202	EML A-01-R	Uranium 234	0.79	0.17	0.02	PCI/G	J	J01
SU1-PRS41-012D	F5F080202	EML A-01-R	Uranium 235	0.061	0.043	0.03	PCI/G	J	T04
SU1-PRS41-012D	F5F080202	EML A-01-R	Uranium 238	0.7	0.15	0.02	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Actinium 228	0.76	0.33	0.34	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Bismuth 214	0.66	0.2	0.17	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Cesium 137	-0.016	0.048	0.087	PCI/G	UJ	T06
SU1-PRS41-012D	F5F080202	EPA 901.1	Lead 212	0.69	0.16	0.12	PCI/G	=	

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(see R and V Report text for additional info)

SU1-PRS41-012D	F5F080202	EPA 901.1	Lead 214	0.55	0.17	0.15	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Potassium 40	9.6	2.2	0.8	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Radium 228	0.76	0.29	0.44	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Thallium 208	0.305	0.09	0.077	PCI/G	=	
SU1-PRS41-012D	F5F080202	EPA 901.1	Thorium-232	0.76	0.29	0.44	PCI/G	=	
SU1-PRS41-013	F5F080202	EML A-01-R	Thorium-228	0.62	0.15	0.05	PCI/G	=	
SU1-PRS41-013	F5F080202	EML A-01-R	Thorium-230	1.04	0.2	0.03	PCI/G	=	
SU1-PRS41-013	F5F080202	EML A-01-R	Thorium-232	0.53	0.13	0.02	PCI/G	=	
SU1-PRS41-013	F5F080202	EML A-01-R	Uranium 234	0.81	0.17	0.01	PCI/G	J	J01
SU1-PRS41-013	F5F080202	EML A-01-R	Uranium 235	0.081	0.05	0.018	PCI/G	J	T04
SU1-PRS41-013	F5F080202	EML A-01-R	Uranium 238	0.76	0.16	0.02	PCI/G	=	
SU1-PRS41-013	F5F080202	EPA 901.1	Actinium 228	0.48	0.25	0.23	PCI/G	J	T04
SU1-PRS41-013	F5F080202	EPA 901.1	Bismuth 214	0.46	0.16	0.15	PCI/G	=	
SU1-PRS41-013	F5F080202	EPA 901.1	Cesium 137	-0.016	0.049	0.088	PCI/G	UJ	T06
SU1-PRS41-013	F5F080202	EPA 901.1	Lead 212	0.4	0.11	0.12	PCI/G	=	
SU1-PRS41-013	F5F080202	EPA 901.1	Lead 214	0.46	0.16	0.11	PCI/G	=	
SU1-PRS41-013	F5F080202	EPA 901.1	Potassium 40	9.2	1.8	0.9	PCI/G	=	
SU1-PRS41-013	F5F080202	EPA 901.1	Radium 228	0.48	0.23	0.23	PCI/G	=	
SU1-PRS41-013	F5F080202	EPA 901.1	Thallium 208	0.13	0.1	0.07	PCI/G	J	T04
SU1-PRS41-013	F5F080202	EPA 901.1	Thorium-232	0.48	0.23	0.23	PCI/G	=	
SU1-PRS41-014	F5F080202	EML A-01-R	Thorium-228	0.74	0.17	0.04	PCI/G	=	
SU1-PRS41-014	F5F080202	EML A-01-R	Thorium-230	1.14	0.22	0.03	PCI/G	=	
SU1-PRS41-014	F5F080202	EML A-01-R	Thorium-232	0.94	0.19	0.03	PCI/G	=	
SU1-PRS41-014	F5F080202	EML A-01-R	Uranium 234	0.8	0.17	0.03	PCI/G	J	J01
SU1-PRS41-014	F5F080202	EML A-01-R	Uranium 235	0.038	0.037	0.02	PCI/G	J	T04
SU1-PRS41-014	F5F080202	EML A-01-R	Uranium 238	0.91	0.19	0.02	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Actinium 228	0.6	0.29	0.3	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Bismuth 214	0.44	0.16	0.14	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Cesium 137	-0.021	0.042	0.08	PCI/G	UJ	T06
SU1-PRS41-014	F5F080202	EPA 901.1	Lead 212	0.45	0.12	0.13	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Lead 214	0.47	0.14	0.13	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Potassium 40	12.2	2.3	0.6	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Radium 228	0.6	0.27	0.32	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Thallium 208	0.171	0.077	0.068	PCI/G	=	
SU1-PRS41-014	F5F080202	EPA 901.1	Thorium-232	0.6	0.27	0.32	PCI/G	=	
SU1-PRS41-015	F5F080202	EML A-01-R	Thorium-228	1.13	0.21	0.04	PCI/G	=	
SU1-PRS41-015	F5F080202	EML A-01-R	Thorium-230	1.01	0.19	0.02	PCI/G	=	
SU1-PRS41-015	F5F080202	EML A-01-R	Thorium-232	1.09	0.2	0.02	PCI/G	=	
SU1-PRS41-015	F5F080202	EML A-01-R	Uranium 234	0.84	0.17	0.03	PCI/G	J	J01
SU1-PRS41-015	F5F080202	EML A-01-R	Uranium 235	0.039	0.034	0.017	PCI/G	J	T04
SU1-PRS41-015	F5F080202	EML A-01-R	Uranium 238	0.87	0.17	0.02	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Actinium 228	0.84	0.37	0.33	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Bismuth 214	0.46	0.17	0.14	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Cesium 137	-0.014	0.044	0.081	PCI/G	UJ	T06
SU1-PRS41-015	F5F080202	EPA 901.1	Lead 212	0.64	0.16	0.15	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Lead 214	0.65	0.19	0.16	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Potassium 40	18	3.1	0.7	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Radium 228	0.84	0.32	0.29	PCI/G	=	
SU1-PRS41-015	F5F080202	EPA 901.1	Thallium 208	0.144	0.083	0.11	PCI/G	J	T04
SU1-PRS41-015	F5F080202	EPA 901.1	Thorium-232	0.84	0.32	0.29	PCI/G	=	
SU1-PRS41-016	F5F080202	EML A-01-R	Thorium-228	1.05	0.21	0.05	PCI/G	=	

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(see R and V Report text for additional info)

SU1-PRS41-016	F5F080202	EML A-01-R	Thorium-230	1.22	0.24	0.02	PCI/G	=	
SU1-PRS41-016	F5F080202	EML A-01-R	Thorium-232	0.96	0.2	0.03	PCI/G	=	
SU1-PRS41-016	F5F080202	EML A-01-R	Uranium 234	0.83	0.16	0.02	PCI/G	J	J01
SU1-PRS41-016	F5F080202	EML A-01-R	Uranium 235	0.088	0.048	0.025	PCI/G	J	T04
SU1-PRS41-016	F5F080202	EML A-01-R	Uranium 238	0.86	0.16	0.01	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Actinium 228	1.16	0.51	0.37	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Bismuth 212	1.47	0.56	0.56	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Bismuth 214	1.1	0.27	0.2	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Cesium 137	-0.023	0.058	0.1	PCI/G	UJ	T06
SU1-PRS41-016	F5F080202	EPA 901.1	Lead 212	1	0.18	0.13	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Lead 214	1.03	0.26	0.16	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Potassium 40	15.7	2.8	0.9	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Radium 224	2.5	1.6	1.4	PCI/G	J	T04
SU1-PRS41-016	F5F080202	EPA 901.1	Radium 228	1.16	0.45	0.35	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Thallium 208	0.33	0.1	0.08	PCI/G	=	
SU1-PRS41-016	F5F080202	EPA 901.1	Thorium-232	1.16	0.45	0.35	PCI/G	=	
SU1-PRS41-017	F5F080202	EML A-01-R	Thorium-228	1.71	0.3	0.05	PCI/G	=	
SU1-PRS41-017	F5F080202	EML A-01-R	Thorium-230	1.1	0.22	0.02	PCI/G	=	
SU1-PRS41-017	F5F080202	EML A-01-R	Thorium-232	1.73	0.3	0.02	PCI/G	=	
SU1-PRS41-017	F5F080202	EML A-01-R	Uranium 234	0.9	0.17	0.03	PCI/G	J	J01
SU1-PRS41-017	F5F080202	EML A-01-R	Uranium 235	0.038	0.034	0.017	PCI/G	J	T04
SU1-PRS41-017	F5F080202	EML A-01-R	Uranium 238	1.03	0.19	0.02	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Actinium 228	1.29	0.51	0.31	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Bismuth 214	0.74	0.18	0.16	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Cesium 137	-0.044	0.041	0.072	PCI/G	UJ	T06
SU1-PRS41-017	F5F080202	EPA 901.1	Lead 212	1.21	0.2	0.12	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Lead 214	0.57	0.16	0.14	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Potassium 40	10.4	2.1	1	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Radium 228	1.29	0.44	0.31	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Thallium 208	0.43	0.11	0.08	PCI/G	=	
SU1-PRS41-017	F5F080202	EPA 901.1	Thorium-232	1.29	0.44	0.31	PCI/G	=	
SU1-PRS41-018	F5F080202	EML A-01-R	Thorium-228	0.64	0.14	0.05	PCI/G	=	
SU1-PRS41-018	F5F080202	EML A-01-R	Thorium-230	1.02	0.19	0.04	PCI/G	=	
SU1-PRS41-018	F5F080202	EML A-01-R	Thorium-232	0.56	0.13	0.03	PCI/G	=	
SU1-PRS41-018	F5F080202	EML A-01-R	Uranium 234	0.82	0.16	0.02	PCI/G	J	J01
SU1-PRS41-018	F5F080202	EML A-01-R	Uranium 235	0.061	0.04	0.026	PCI/G	J	T04
SU1-PRS41-018	F5F080202	EML A-01-R	Uranium 238	0.72	0.15	0.02	PCI/G	=	
SU1-PRS41-018	F5F080202	EPA 901.1	Bismuth 214	0.87	0.26	0.18	PCI/G	=	
SU1-PRS41-018	F5F080202	EPA 901.1	Cesium 137	-0.053	0.047	0.067	PCI/G	UJ	T06
SU1-PRS41-018	F5F080202	EPA 901.1	Lead 212	0.65	0.14	0.13	PCI/G	=	
SU1-PRS41-018	F5F080202	EPA 901.1	Lead 214	0.71	0.22	0.17	PCI/G	=	
SU1-PRS41-018	F5F080202	EPA 901.1	Potassium 40	12.8	2.5	0.8	PCI/G	=	
SU1-PRS41-018	F5F080202	EPA 901.1	Thallium 208	0.132	0.085	0.096	PCI/G	J	T04
SU2-PRS41-019	F5F080202	EML A-01-R	Thorium-228	0.46	0.12	0.06	PCI/G	=	
SU2-PRS41-019	F5F080202	EML A-01-R	Thorium-230	0.76	0.16	0.03	PCI/G	=	
SU2-PRS41-019	F5F080202	EML A-01-R	Thorium-232	0.41	0.11	0.03	PCI/G	=	
SU2-PRS41-019	F5F080202	EPA 901.1	Bismuth 214	0.47	0.18	0.12	PCI/G	=	
SU2-PRS41-019	F5F080202	EPA 901.1	Cesium 137	0.002	0.038	0.072	PCI/G	UJ	T06
SU2-PRS41-019	F5F080202	EPA 901.1	Lead 212	0.309	0.098	0.12	PCI/G	=	
SU2-PRS41-019	F5F080202	EPA 901.1	Lead 214	0.58	0.14	0.13	PCI/G	=	
SU2-PRS41-019	F5F080202	EPA 901.1	Potassium 40	9.4	2.1	0.6	PCI/G	=	

R and V #1 Table

(see R and V Report text for additional info)

SU2-PRS41-019	F5F080202	EPA 901.1	Thallium 208	0.168	0.07	0.059	PCI/G	=	
SU2-PRS41-020	F5F080202	EML A-01-R	Thorium-228	0.53	0.12	0.03	PCI/G	=	
SU2-PRS41-020	F5F080202	EML A-01-R	Thorium-230	0.87	0.17	0.02	PCI/G	=	
SU2-PRS41-020	F5F080202	EML A-01-R	Thorium-232	0.46	0.11	0.02	PCI/G	=	
SU2-PRS41-020	F5F080202	EPA 901.1	Bismuth 214	0.76	0.19	0.15	PCI/G	=	
SU2-PRS41-020	F5F080202	EPA 901.1	Cesium 137	-0.009	0.04	0.074	PCI/G	UJ	T06
SU2-PRS41-020	F5F080202	EPA 901.1	Lead 212	0.42	0.12	0.13	PCI/G	=	
SU2-PRS41-020	F5F080202	EPA 901.1	Lead 214	0.64	0.18	0.14	PCI/G	=	
SU2-PRS41-020	F5F080202	EPA 901.1	Potassium 40	9.7	2	0.6	PCI/G	=	
SU2-PRS41-020	F5F080202	EPA 901.1	Thallium 208	0.142	0.06	0.1	PCI/G	=	
SU2-PRS41-021	F5F080202	EML A-01-R	Thorium-228	0.46	0.13	0.05	PCI/G	=	
SU2-PRS41-021	F5F080202	EML A-01-R	Thorium-230	0.83	0.18	0.04	PCI/G	=	
SU2-PRS41-021	F5F080202	EML A-01-R	Thorium-232	0.47	0.13	0.03	PCI/G	=	
SU2-PRS41-021	F5F080202	EPA 901.1	Bismuth 214	0.53	0.14	0.13	PCI/G	=	
SU2-PRS41-021	F5F080202	EPA 901.1	Cesium 137	0.008	0.038	0.083	PCI/G	UJ	T06
SU2-PRS41-021	F5F080202	EPA 901.1	Lead 212	0.34	0.1	0.12	PCI/G	=	
SU2-PRS41-021	F5F080202	EPA 901.1	Lead 214	0.74	0.16	0.09	PCI/G	=	
SU2-PRS41-021	F5F080202	EPA 901.1	Potassium 40	10.2	1.9	0.8	PCI/G	=	
SU2-PRS41-021	F5F080202	EPA 901.1	Thallium 208	0.123	0.071	0.068	PCI/G	J	T04
SU2-PRS41-021D	F5F080202	EML A-01-R	Thorium-228	0.51	0.13	0.04	PCI/G	=	
SU2-PRS41-021D	F5F080202	EML A-01-R	Thorium-230	0.97	0.19	0.03	PCI/G	=	
SU2-PRS41-021D	F5F080202	EML A-01-R	Thorium-232	0.5	0.12	0.03	PCI/G	=	
SU2-PRS41-021D	F5F080202	EPA 901.1	Bismuth 214	0.65	0.21	0.15	PCI/G	=	
SU2-PRS41-021D	F5F080202	EPA 901.1	Cesium 137	-0.034	0.049	0.081	PCI/G	UJ	T06
SU2-PRS41-021D	F5F080202	EPA 901.1	Lead 212	0.31	0.13	0.13	PCI/G	=	
SU2-PRS41-021D	F5F080202	EPA 901.1	Lead 214	0.61	0.17	0.12	PCI/G	=	
SU2-PRS41-021D	F5F080202	EPA 901.1	Potassium 40	7.8	2	0.8	PCI/G	=	
SU2-PRS41-022	F5F080202	EML A-01-R	Thorium-228	0.5	0.13	0.05	PCI/G	=	
SU2-PRS41-022	F5F080202	EML A-01-R	Thorium-230	1.03	0.21	0.02	PCI/G	=	
SU2-PRS41-022	F5F080202	EML A-01-R	Thorium-232	0.48	0.13	0.03	PCI/G	=	
SU2-PRS41-022	F5F080202	EPA 901.1	Actinium 228	0.52	0.29	0.26	PCI/G	J	T04
SU2-PRS41-022	F5F080202	EPA 901.1	Bismuth 214	0.74	0.17	0.13	PCI/G	=	
SU2-PRS41-022	F5F080202	EPA 901.1	Cesium 137	0.049	0.045	0.096	PCI/G	U	T05
SU2-PRS41-022	F5F080202	EPA 901.1	Lead 212	0.38	0.13	0.13	PCI/G	=	
SU2-PRS41-022	F5F080202	EPA 901.1	Lead 214	0.75	0.18	0.12	PCI/G	=	
SU2-PRS41-022	F5F080202	EPA 901.1	Potassium 40	9.2	2	1	PCI/G	=	
SU2-PRS41-022	F5F080202	EPA 901.1	Radium 228	0.52	0.27	0.27	PCI/G	J	T04
SU2-PRS41-022	F5F080202	EPA 901.1	Thorium-232	0.52	0.27	0.27	PCI/G	J	T04
SU2-PRS41-023	F5F080202	EML A-01-R	Thorium-228	0.58	0.13	0.03	PCI/G	=	
SU2-PRS41-023	F5F080202	EML A-01-R	Thorium-230	0.92	0.18	0.02	PCI/G	=	
SU2-PRS41-023	F5F080202	EML A-01-R	Thorium-232	0.47	0.12	0.02	PCI/G	=	
SU2-PRS41-023	F5F080202	EPA 901.1	Bismuth 214	0.46	0.18	0.15	PCI/G	=	
SU2-PRS41-023	F5F080202	EPA 901.1	Cesium 137	-0.039	0.04	0.062	PCI/G	UJ	T06
SU2-PRS41-023	F5F080202	EPA 901.1	Lead 212	0.4	0.13	0.18	PCI/G	=	
SU2-PRS41-023	F5F080202	EPA 901.1	Lead 214	0.61	0.17	0.14	PCI/G	=	
SU2-PRS41-023	F5F080202	EPA 901.1	Potassium 40	12.4	2.4	0.8	PCI/G	=	
SU2-PRS41-023	F5F080202	EPA 901.1	Thallium 208	0.161	0.077	0.07	PCI/G	=	
SU2-PRS41-024	F5F080202	EML A-01-R	Thorium-228	0.68	0.15	0.04	PCI/G	=	
SU2-PRS41-024	F5F080202	EML A-01-R	Thorium-230	0.84	0.17	0.02	PCI/G	=	
SU2-PRS41-024	F5F080202	EML A-01-R	Thorium-232	0.65	0.14	0.02	PCI/G	=	
SU2-PRS41-024	F5F080202	EPA 901.1	Bismuth 214	0.49	0.16	0.12	PCI/G	=	

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(see R and V Report text for additional info)

SU2-PRS41-024	F5F080202	EPA 901.1	Cesium 137	-0.003	0.04	0.079	PCI/G	UJ	T06
SU2-PRS41-024	F5F080202	EPA 901.1	Lead 212	0.336	0.092	0.094	PCI/G	=	
SU2-PRS41-024	F5F080202	EPA 901.1	Lead 214	0.41	0.12	0.1	PCI/G	=	
SU2-PRS41-024	F5F080202	EPA 901.1	Potassium 40	7.5	1.5	0.5	PCI/G	=	
SU2-PRS41-025	F5F080272	EML A-01-R	Thorium-228	0.46	0.1	0.02	PCI/G	=	
SU2-PRS41-025	F5F080272	EML A-01-R	Thorium-230	0.82	0.15	0.02	PCI/G	=	
SU2-PRS41-025	F5F080272	EML A-01-R	Thorium-232	0.415	0.097	0.012	PCI/G	=	
SU2-PRS41-025	F5F080272	EPA 901.1	Actinium 228	0.26	0.22	0.24	PCI/G	J	T04
SU2-PRS41-025	F5F080272	EPA 901.1	Bismuth 214	0.68	0.18	0.13	PCI/G	=	
SU2-PRS41-025	F5F080272	EPA 901.1	Cesium 137	0.027	0.043	0.089	PCI/G	UJ	T06
SU2-PRS41-025	F5F080272	EPA 901.1	Lead 212	0.363	0.086	0.086	PCI/G	=	
SU2-PRS41-025	F5F080272	EPA 901.1	Lead 214	0.66	0.15	0.13	PCI/G	=	
SU2-PRS41-025	F5F080272	EPA 901.1	Potassium 40	11.5	2.2	1.1	PCI/G	=	
SU2-PRS41-025	F5F080272	EPA 901.1	Radium 228	0.26	0.22	0.23	PCI/G	J	T04
SU2-PRS41-025	F5F080272	EPA 901.1	Thallium 208	0.138	0.074	0.067	PCI/G	J	T04
SU2-PRS41-025	F5F080272	EPA 901.1	Thorium-232	0.26	0.22	0.23	PCI/G	J	T04
SU2-PRS41-026	F5F080272	EML A-01-R	Thorium-228	1.06	0.17	0.03	PCI/G	=	
SU2-PRS41-026	F5F080272	EML A-01-R	Thorium-230	1.51	0.22	0.02	PCI/G	=	
SU2-PRS41-026	F5F080272	EML A-01-R	Thorium-232	1.06	0.17	0.02	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Actinium 228	1.19	0.4	0.26	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Bismuth 214	0.95	0.25	0.18	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Cesium 137	-0.008	0.06	0.12	PCI/G	UJ	T06
SU2-PRS41-026	F5F080272	EPA 901.1	Lead 212	0.92	0.17	0.11	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Lead 214	1.01	0.23	0.19	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Potassium 40	17.3	2.9	0.9	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Radium 228	1.19	0.31	0.26	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Thallium 208	0.26	0.1	0.08	PCI/G	=	
SU2-PRS41-026	F5F080272	EPA 901.1	Thorium-232	1.19	0.31	0.26	PCI/G	=	
SU2-PRS41-027	F5F080272	EML A-01-R	Thorium-228	0.66	0.13	0.03	PCI/G	=	
SU2-PRS41-027	F5F080272	EML A-01-R	Thorium-230	1.04	0.18	0.03	PCI/G	=	
SU2-PRS41-027	F5F080272	EML A-01-R	Thorium-232	0.61	0.13	0.02	PCI/G	=	
SU2-PRS41-027	F5F080272	EPA 901.1	Bismuth 214	0.64	0.19	0.14	PCI/G	=	
SU2-PRS41-027	F5F080272	EPA 901.1	Cesium 137	-0.009	0.04	0.075	PCI/G	UJ	T06
SU2-PRS41-027	F5F080272	EPA 901.1	Lead 212	0.48	0.11	0.11	PCI/G	=	
SU2-PRS41-027	F5F080272	EPA 901.1	Lead 214	0.62	0.17	0.13	PCI/G	=	
SU2-PRS41-027	F5F080272	EPA 901.1	Potassium 40	10.3	2.1	0.8	PCI/G	=	
SU2-PRS41-027	F5F080272	EPA 901.1	Thallium 208	0.171	0.077	0.066	PCI/G	=	
SU2-PRS41-028	F5F080272	EML A-01-R	Thorium-228	0.69	0.14	0.03	PCI/G	=	
SU2-PRS41-028	F5F080272	EML A-01-R	Thorium-230	0.91	0.16	0.02	PCI/G	=	
SU2-PRS41-028	F5F080272	EML A-01-R	Thorium-232	0.71	0.14	0.01	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Actinium 228	0.57	0.25	0.25	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Bismuth 214	0.53	0.15	0.12	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Cesium 137	0.034	0.045	0.09	PCI/G	UJ	T06
SU2-PRS41-028	F5F080272	EPA 901.1	Lead 212	0.45	0.12	0.13	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Lead 214	0.55	0.14	0.1	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Potassium 40	7.9	1.7	0.5	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Radium 228	0.57	0.22	0.25	PCI/G	=	
SU2-PRS41-028	F5F080272	EPA 901.1	Thallium 208	0.122	0.064	0.056	PCI/G	J	T04
SU2-PRS41-028	F5F080272	EPA 901.1	Thorium-232	0.57	0.22	0.25	PCI/G	=	
SU3-PRS41-001	F5F080272	EML A-01-R	Thorium-228	0.242	0.069	0.019	PCI/G	=	
SU3-PRS41-001	F5F080272	EML A-01-R	Thorium-230	0.58	0.12	0.01	PCI/G	=	

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(see R and V Report text for additional info)

SU3-PRS41-001	F5F080272	EML A-01-R	Thorium-232	0.399	0.092	0.011	PCI/G	=	
SU3-PRS41-001	F5F080272	EPA 901.1	Bismuth 214	0.48	0.13	0.07	PCI/G	=	
SU3-PRS41-001	F5F080272	EPA 901.1	Cesium 137	-0.01	0.025	0.045	PCI/G	UJ	T06
SU3-PRS41-001	F5F080272	EPA 901.1	Lead 212	0.123	0.076	0.1	PCI/G	J	T04
SU3-PRS41-001	F5F080272	EPA 901.1	Lead 214	0.36	0.11	0.1	PCI/G	=	
SU3-PRS41-001	F5F080272	EPA 901.1	Potassium 40	5.4	1.2	0.6	PCI/G	=	
SU3-PRS41-001	F5F080272	EPA 901.1	Thallium 208	0.092	0.045	0.051	PCI/G	=	
SU3-PRS41-002	F5F080272	EML A-01-R	Thorium-228	0.92	0.17	0.01	PCI/G	=	
SU3-PRS41-002	F5F080272	EML A-01-R	Thorium-230	0.85	0.16	0.02	PCI/G	=	
SU3-PRS41-002	F5F080272	EML A-01-R	Thorium-232	1.02	0.18	0.01	PCI/G	=	
SU3-PRS41-002	F5F080272	EPA 901.1	Bismuth 214	0.53	0.19	0.16	PCI/G	=	
SU3-PRS41-002	F5F080272	EPA 901.1	Cesium 137	-0.005	0.053	0.11	PCI/G	UJ	T06
SU3-PRS41-002	F5F080272	EPA 901.1	Lead 212	0.74	0.17	0.16	PCI/G	=	
SU3-PRS41-002	F5F080272	EPA 901.1	Lead 214	0.48	0.2	0.16	PCI/G	=	
SU3-PRS41-002	F5F080272	EPA 901.1	Potassium 40	24.1	3.7	0.9	PCI/G	=	
SU3-PRS41-002	F5F080272	EPA 901.1	Thallium 208	0.239	0.092	0.09	PCI/G	=	
SU3-PRS41-003	F5F080272	EML A-01-R	Thorium-228	0.43	0.11	0.03	PCI/G	=	
SU3-PRS41-003	F5F080272	EML A-01-R	Thorium-230	0.54	0.13	0.01	PCI/G	=	
SU3-PRS41-003	F5F080272	EML A-01-R	Thorium-232	0.327	0.093	0.015	PCI/G	=	
SU3-PRS41-003	F5F080272	EPA 901.1	Bismuth 214	0.35	0.13	0.13	PCI/G	=	
SU3-PRS41-003	F5F080272	EPA 901.1	Cesium 137	0.015	0.029	0.065	PCI/G	UJ	T06
SU3-PRS41-003	F5F080272	EPA 901.1	Lead 212	0.18	0.11	0.1	PCI/G	J	T04
SU3-PRS41-003	F5F080272	EPA 901.1	Lead 214	0.45	0.12	0.08	PCI/G	=	
SU3-PRS41-003	F5F080272	EPA 901.1	Potassium 40	8.6	1.7	0.4	PCI/G	=	
SU3-PRS41-003	F5F080272	EPA 901.1	Thallium 208	0.085	0.04	0.06	PCI/G	=	
SU3-PRS41-004	F5F080272	EML A-01-R	Thorium-228	0.82	0.14	0.03	PCI/G	=	
SU3-PRS41-004	F5F080272	EML A-01-R	Thorium-230	1.15	0.18	0.02	PCI/G	=	
SU3-PRS41-004	F5F080272	EML A-01-R	Thorium-232	0.93	0.16	0.02	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Actinium 228	0.66	0.33	0.31	PCI/G	J	T04
SU3-PRS41-004	F5F080272	EPA 901.1	Bismuth 214	0.67	0.17	0.19	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Cesium 137	-0.007	0.049	0.088	PCI/G	UJ	T06
SU3-PRS41-004	F5F080272	EPA 901.1	Lead 212	0.68	0.15	0.16	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Lead 214	0.62	0.15	0.13	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Potassium 40	18.2	3	0.8	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Radium 228	0.66	0.3	0.3	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Thallium 208	0.258	0.094	0.076	PCI/G	=	
SU3-PRS41-004	F5F080272	EPA 901.1	Thorium-232	0.66	0.3	0.3	PCI/G	=	
SU3-PRS41-005	F5F080272	EML A-01-R	Thorium-228	0.225	0.072	0.026	PCI/G	=	
SU3-PRS41-005	F5F080272	EML A-01-R	Thorium-230	0.61	0.13	0.03	PCI/G	=	
SU3-PRS41-005	F5F080272	EML A-01-R	Thorium-232	0.226	0.072	0.013	PCI/G	=	
SU3-PRS41-005	F5F080272	EPA 901.1	Bismuth 214	0.33	0.11	0.08	PCI/G	=	
SU3-PRS41-005	F5F080272	EPA 901.1	Cesium 137	-0.01	0.032	0.059	PCI/G	UJ	T06
SU3-PRS41-005	F5F080272	EPA 901.1	Lead 212	0.164	0.071	0.1	PCI/G	=	
SU3-PRS41-005	F5F080272	EPA 901.1	Lead 214	0.3	0.12	0.1	PCI/G	=	
SU3-PRS41-005	F5F080272	EPA 901.1	Potassium 40	6	1.6	0.9	PCI/G	=	
SU3-PRS41-005	F5F080272	EPA 901.1	Thallium 208	0.104	0.046	0.047	PCI/G	=	
SU3-PRS41-006	F5F080272	EML A-01-R	Thorium-228	1.17	0.19	0.02	PCI/G	=	
SU3-PRS41-006	F5F080272	EML A-01-R	Thorium-230	1.15	0.19	0.02	PCI/G	=	
SU3-PRS41-006	F5F080272	EML A-01-R	Thorium-232	1.08	0.18	0.01	PCI/G	=	
SU3-PRS41-006	F5F080272	EPA 901.1	Bismuth 214	0.64	0.17	0.1	PCI/G	=	
SU3-PRS41-006	F5F080272	EPA 901.1	Cesium 137	-0.031	0.044	0.08	PCI/G	UJ	T06

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(see R and V Report text for additional info)

SU3-PRS41-006	F5F080272	EPA 901.1	Lead 212	0.62	0.15	0.15	PCI/G	=	
SU3-PRS41-006	F5F080272	EPA 901.1	Lead 214	0.65	0.15	0.15	PCI/G	=	
SU3-PRS41-006	F5F080272	EPA 901.1	Potassium 40	11.2	2	0.9	PCI/G	=	
SU3-PRS41-006	F5F080272	EPA 901.1	Thallium 208	0.253	0.078	0.074	PCI/G	=	

Review & Validation Report #2

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Acronyms

%	percent
%D	percent difference
LCS	laboratory control spike
NAD	normalized absolute difference
MB	method blank
MDC	minimum detectable concentration
NC	non-calculable
PRS	potential release site
RPD	relative percent difference
RSD	relative standard deviation
SDG	sample delivery group
SOW	Statement of Work
VSAP	Verification Sampling and Analysis Plan

1.0 Introduction and Summary

1.1 Introduction

This data assessment has been prepared to describe the data quality for the PRS 41 Salvage Area and Building 124 Footprint verification samples. The work was generally performed in compliance with the Statement of Work (SOW) issued October 4, 2005; the Standard VSAP, Soils Verification Sampling & Analysis Plan, Final, dated August 2004; sample maps and target parameters issued by CH2M Hill Mound for each sample event; and the Mound Methods Compendium. Data assessment encompasses two types of quality control reviews on the data: data review and data validation. Data review involves a review of the basic quality control data included in the laboratory data package, e.g., laboratory blanks, surrogate recoveries, matrix spike recoveries, and field duplicates. All (100%) of the data are reviewed. Data validation is a detailed review of the laboratory data packages that includes all of the data review elements plus verification of such things as proper instrument calibration, instrument calibration validity during sample analysis, identification of target analytes, and proper treatment and quantification of the data. The results of the data validation are assessed to identify whether any systemic problems are apparent. Suspect values are flagged to assure the validity of the data to the user. While only 10% of the data is required to be validated, data validation was performed on 100% of the samples. Both data review and validation are combined and discussed below.

2.0 Data Review / Validation

The quality control data submitted with the analytical data packages were reviewed and validated. The results of the assessment are presented in this section. The following qualifications were used to indicate data quality problems identified during the data validation process.

Table 1 — Data Validation Qualifications

Qualification	Qualification Description
=	The sample result is positively identified and quantified.
J	The associated positive sample result is estimated.
J/UJ	The associated positive or non-detected sample result is qualified estimated.
UJ	The associated not-detected sample result is qualified estimated.
U	The associated sample result is qualified not detected.
R	The associated sample result is rejected and unusable.

Reason Codes are used to assign meaning to the qualifiers used. The following are the reason codes that were applied to this project.

Table 2 – Validation Reason Codes

Reason Code	Reason Code Description
F01	Sample data were qualified as a result of the method blank.
G02	Radiological tracer recovery was below the lower control limit.
J01	Laboratory duplicate RPD was outside the control limit.
T04	Analytical result is greater that the associated MDA, but the sample error is 50% to 100% of the sample result.
T05	Analytical result is less than the associated MDA, but greater than the counting uncertainty.
T06	Analytical Result is less than both the associated counting uncertainty and MDA.

RPD: relative percent difference
MDA: minimum detectable activity

This sampling effort is discussed in four sections: field quality assurance (QA) frequency, gamma spectroscopy, isotopic thorium, and isotopic plutonium. The data validation of each of these is discussed in the following subsections. The validated results are presented in "R and V #2 Table" immediately following this report.

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2.1 Field QA Frequency

The field team is responsible for introducing or specifying field quality control samples. The frequency of these samples is discussed below.

2.1.1 Equipment Rinsates

Equipment rinsate samples were not required for this sampling effort. The field team used a dry decontamination method and equipment along with the dry wipes that were used during the decontamination process that were scanned in the field to monitor the decontamination process.

2.1.2 Field Duplicates

Field duplicates demonstrate that the collection technique was adequately precise. Five (5) field duplicates were collected for seventy-eight (78) regular field samples for a frequency of 6.4%. This meets the planned collection goal of five percent. The field duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. For the five pairs, fifteen analytes were compared, making a total of seventy-five comparisons. One comparison (1.3%) exceeded an RPD of 35%. The field collection efforts were sufficiently precise. No qualification of the data is necessary.

2.1.3 Matrix Spikes

Matrix spikes (MSs) and matrix spike duplicates (MSDs) are prepared to verify that the sample matrix is not interfering with the accurate and precise determination of target parameters in non-radiological fractions. This effort included only radiological fractions, therefore matrix spikes/matrix spike duplicates were not analyzed.

2.1.4 Trip Blanks

Trip blanks are included in each shipping container used to transport samples for volatile analysis. This sampling effort did not include volatile samples. Therefore, trip blanks were not analyzed.

2.2 Gamma Spectroscopy

The field team submitted seventy-eight (78) samples for gamma spectroscopy analysis. The associated quality control result assessments are discussed in the following subsections.

2.2.1 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each sample delivery group (SDG) had one laboratory blank per analytical run. All laboratory blanks were non-detect. No blank contamination of the samples was detected.

2.2.2 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analytical precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. The laboratory analyzed one duplicate pair for each analytical run. All gamma spectroscopy laboratory duplicates had RPDs below 35%. No qualification of the data is required for gamma spectroscopy due to laboratory precision.

2.2.3 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analytical accuracy. A LCS is a control sample of known composition. A percent recovery within control

limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.2.4 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. One record (<0.1% of the gamma spec records) had results qualified as estimated (J) with a reason code T04.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. Forty-four (44) records (5.6% of the gamma spec records) had results qualified non-detect (U) with a reason code T05.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. Six hundred fifty-eight (658) records (84.4% of the gamma spec records) had results qualified as non-detect, estimated (UJ) with a reason code T06.

2.3 Isotopic Plutonium

The field team submitted seventy-eight (78) samples for isotopic plutonium analysis. The associated quality control result assessments are discussed in the following subsections.

2.3.1 Yields

Non-target isotopes are added to samples just prior to digestion and separation. The non-target isotopes are used to determine the digestion, separation, and analysis efficiencies. These non-target isotope recoveries are expressed as yields and used to calculate the target isotope activities. All yields for plutonium analysis were within control limits. No qualifications to the usability of the data are required based on the yield recoveries.

2.3.2 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each sample delivery group (SDG) had one laboratory blank per analytical run. All laboratory blanks were non-detect for plutonium. No blank contamination of the samples was detected.

2.3.3 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analysis precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPD). Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the relative percent difference was calculated. The laboratory analyzed one duplicate pair for each analytical run. The RPD for each laboratory duplicate was within control limits for the plutonium analyses. No qualification of the sample data is required.

2.3.4 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analysis accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.3.5 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. Twenty samples (2.6% of the samples) had Plutonium-238 results qualified as estimated (J) with a reason code T04. None of the samples (0% of the samples) had Plutonium-239/240 results qualified as estimated (J) with a reason code T04.

Sample results that were quantified less than the MDC, but greater than the uncertainty were qualified non-detect (U) with a reason code T05. One of the samples (1.3% of the

samples) had Plutonium-238 results qualified non-detect (U) with a reason code T05. Twelve samples (15.4% of the samples) had Plutonium-239/240 results qualified non-detect (U) with a reason code T05.

Sample results with analytical results less than both the MDC and uncertainty were qualified as non-detect, estimated (UJ) with a reason code T06. Thirty-eight samples (48.7% of the samples) had Plutonium-238 results qualified as non-detect, estimated (UJ) with a reason code T06. Sixty-six samples (84.6% of the samples) had Plutonium-239/240 results qualified as non-detect, estimated (UJ) with a reason code T06.

2.4 Isotopic Thorium

The field team submitted seventy-eight (78) samples for isotopic thorium analysis. The associated quality control result assessments are discussed in the following subsections.

2.4.1 Yields

Non-target isotopes are added to samples just prior to digestion and separation. The non-target isotopes are used to determine the digestion, separation, and analysis efficiencies. These non-target isotope recoveries are expressed as yields and used to calculate the target isotope activities. Two samples (2.6% of the samples) were qualified as estimated (J) with a reason code G02 due to low yield recoveries.

2.4.2 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not cross-contaminating samples with target isotopes. Each SDG had one laboratory blank per analytical run.

Thorium-230 was detected in four blanks with activity concentrations ranging from 0.016 pCi/g to 0.065 pCi/g. This may indicate that contamination could have been introduced during the laboratory preparation. Those samples where the normalized absolute difference (NAD) between the blank and the sample result is greater than 2.58 are qualified as estimated (J) with a reason code F01. Three samples (3.8% of the

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samples) had the Thorium-230 samples qualified as estimated (J) with a reason code F01.

2.4.3 Laboratory Duplicates

Laboratory duplicates are used to assess the sample analysis precision. The laboratory duplicate samples were evaluated by calculating the relative percent differences. Relative percent differences are considered non-calculable for duplicate pairs where one or both results were not detected or less than 2x the MDC. If one result was greater than 2x the MDC and the other result was detected at less than 2x the MDC, the RPD was calculated. The laboratory analyzed one duplicate pair for each analytical run.

The Thorium-228 laboratory duplicate pair associated with the SDG F5L080350 exceeded the RPD control limit of 35%. Thorium-228 samples results associated with this SDG were qualified as estimated (J/UJ) with a reason code J01.

The Thorium-232 laboratory duplicate pair associated with the SDG F5L080350 exceeded the RPD control limit of 35%. Thorium-232 samples results associated with this SDG were qualified as estimated (J/UJ) with a reason code J01.

2.4.4 Laboratory Control Spike

Laboratory control spikes (LCS) are prepared to verify the sample analysis accuracy. A LCS is a control sample of known composition. A percent recovery within control limits demonstrates that the laboratory method is acceptable. All LCS recoveries are within control limits and no qualifications to the data are required.

2.4.5 Overall Assessment of Data

Sample results that were quantified greater than the MDC with an uncertainty 50% to 100% of the sample result were qualified as estimated (J) with a reason code T04. Three samples (3.8% of the samples) had Thorium-228 results qualified as estimated (J) with a reason code T04. Three samples (3.8% of the samples) had Thorium-232 results qualified as estimated (J) with a reason code T04.

3.0 References

Reference 1: *Methods Compendium.* Mound Plant, Miamisburg OH. Technical Manual MD-80045, Issue 2, January 2002.

Reference 2: *Data Validation.* Science Application International Corporation. Technical Procedure-Data Management-300-7, Revision 5, February 2004.

R and V #2 Table

(see R and V text for more info)

Sample Name	SDG	Method Name	Analyte Name	Result	Uncertainty	MDC	Units	Val Qualifier	Reason Code
SU1-BD124-01	F5L080237	EML A-01-R	Plutonium-238	-0.004	0.012	0.027	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	EML A-01-R	Plutonium-239/240	0.009	0.015	0.012	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	EML A-01-R	Thorium-228	0.33	0.17	0.13	PCI/G	J	G02,T04
SU1-BD124-01	F5L080237	EML A-01-R	Thorium-230	0.94	0.31	0.09	PCI/G	J	G02
SU1-BD124-01	F5L080237	EML A-01-R	Thorium-232	0.3	0.16	0.1	PCI/G	J	G02,T04
SU1-BD124-01	F5L080237	GAMMA	Actinium 227	0.15	0.26	0.42	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Americium 241	0.029	0.091	0.16	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Bismuth-207	-0.004	0.031	0.058	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Bismuth-210M	-0.056	0.046	0.069	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Cesium 137	-0.012	0.047	0.085	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Cobalt 60	0.021	0.048	0.11	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Lead 210	0.6	1	1.9	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Protactinium 231	1.1	1.2	2.3	PCI/G	UJ	T06
SU1-BD124-01	F5L080237	GAMMA	Radium (226)	0.76	0.19	0.37	PCI/G	=	
SU1-BD124-01	F5L080237	GAMMA	Thorium 229	-0.15	0.48	0.83	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	EML A-01-R	Plutonium-238	0.002	0.013	0.027	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	EML A-01-R	Plutonium-239/240	0.003	0.012	0.025	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	EML A-01-R	Thorium-228	0.32	0.11	0.06	PCI/G	=	
SU1-BD124-02	F5L080237	EML A-01-R	Thorium-230	0.8	0.2	0.03	PCI/G	=	
SU1-BD124-02	F5L080237	EML A-01-R	Thorium-232	0.37	0.12	0.05	PCI/G	=	
SU1-BD124-02	F5L080237	GAMMA	Actinium 227	0.25	0.21	0.39	PCI/G	U	T05
SU1-BD124-02	F5L080237	GAMMA	Americium 241	0.075	0.081	0.16	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Bismuth-207	-0.011	0.032	0.057	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Bismuth-210M	-0.055	0.047	0.073	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Cesium 137	-0.002	0.054	0.11	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Cobalt 60	-0.019	0.047	0.095	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Lead 210	0.81	0.95	1.9	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Protactinium 231	0.5	1.2	2.2	PCI/G	UJ	T06
SU1-BD124-02	F5L080237	GAMMA	Radium (226)	0.7	0.18	0.37	PCI/G	=	
SU1-BD124-02	F5L080237	GAMMA	Thorium 229	-0.29	0.45	0.76	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	EML A-01-R	Plutonium-238	0.074	0.044	0.038	PCI/G	J	T04
SU1-BD124-04	F5L080237	EML A-01-R	Plutonium-239/240	0.003	0.012	0.026	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	EML A-01-R	Thorium-228	1.12	0.21	0.04	PCI/G	=	
SU1-BD124-04	F5L080237	EML A-01-R	Thorium-230	0.96	0.19	0.03	PCI/G	=	
SU1-BD124-04	F5L080237	EML A-01-R	Thorium-232	1.14	0.21	0.03	PCI/G	=	
SU1-BD124-04	F5L080237	GAMMA	Actinium 227	0.09	0.32	0.51	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Americium 241	-0.002	0.11	0.19	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Bismuth-207	-0.021	0.05	0.089	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Bismuth-210M	0.018	0.06	0.11	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Cesium 137	0.015	0.061	0.12	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Cobalt 60	-0.0004	0.035	0.081	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Lead 210	0.2	1.4	2.6	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Protactinium 231	1.6	1.8	3.2	PCI/G	UJ	T06
SU1-BD124-04	F5L080237	GAMMA	Radium (226)	0.72	0.21	0.45	PCI/G	=	
SU1-BD124-04	F5L080237	GAMMA	Thorium 229	-0.13	0.66	1.2	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	EML A-01-R	Plutonium-238	-0.002	0.015	0.033	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	EML A-01-R	Plutonium-239/240	-0.002	0.011	0.024	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	EML A-01-R	Thorium-228	0.45	0.17	0.09	PCI/G	=	
SU1-BD124-05	F5L080237	EML A-01-R	Thorium-230	0.98	0.26	0.06	PCI/G	=	
SU1-BD124-05	F5L080237	EML A-01-R	Thorium-232	0.43	0.16	0.06	PCI/G	=	

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R and V #2 Table

(see R and V text for more info)

SU1-BD124-05	F5L080237	GAMMA	Actinium 227	0.06	0.24	0.38	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Americium 241	0.014	0.082	0.14	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Bismuth-207	-0.013	0.031	0.054	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Bismuth-210M	-0.024	0.053	0.09	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Cesium 137	0.033	0.037	0.08	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Cobalt 60	0.017	0.039	0.087	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Lead 210	0.5	1	1.9	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Protactinium 231	0.3	1.2	2	PCI/G	UJ	T06
SU1-BD124-05	F5L080237	GAMMA	Radium (226)	0.75	0.2	0.36	PCI/G	=	
SU1-BD124-05	F5L080237	GAMMA	Thorium 229	0.31	0.48	0.89	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	EML A-01-R	Plutonium-238	0.01	0.019	0.03	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	EML A-01-R	Plutonium-239/240	-0.002	0.011	0.023	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	EML A-01-R	Thorium-228	0.43	0.16	0.1	PCI/G	=	
SU1-BD124-05D	F5L080237	EML A-01-R	Thorium-230	0.97	0.25	0.05	PCI/G	=	
SU1-BD124-05D	F5L080237	EML A-01-R	Thorium-232	0.47	0.16	0.03	PCI/G	=	
SU1-BD124-05D	F5L080237	GAMMA	Actinium 227	0.23	0.28	0.48	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Americium 241	-0.01	0.11	0.2	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Bismuth-207	0.013	0.046	0.09	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Bismuth-210M	-0.013	0.065	0.11	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Cesium 137	-0.006	0.052	0.098	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Cobalt 60	0.036	0.056	0.13	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Lead 210	1.5	1.2	2.4	PCI/G	U	T05
SU1-BD124-05D	F5L080237	GAMMA	Protactinium 231	1	1.4	2.5	PCI/G	UJ	T06
SU1-BD124-05D	F5L080237	GAMMA	Radium (226)	1	0.25	0.18	PCI/G	=	
SU1-BD124-05D	F5L080237	GAMMA	Thorium 229	-0.009	0.66	1.2	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	EML A-01-R	Plutonium-238	0.009	0.015	0.022	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	EML A-01-R	Plutonium-239/240	-0.001	0.011	0.022	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	EML A-01-R	Thorium-228	0.37	0.1	0.05	PCI/G	=	
SU1-BD124-06	F5L080237	EML A-01-R	Thorium-230	0.83	0.17	0.03	PCI/G	=	
SU1-BD124-06	F5L080237	EML A-01-R	Thorium-232	0.39	0.1	0.02	PCI/G	=	
SU1-BD124-06	F5L080237	GAMMA	Actinium 227	0.1	0.23	0.38	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Americium 241	0.016	0.08	0.15	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Bismuth-207	0.023	0.038	0.077	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Bismuth-210M	0.021	0.048	0.093	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Cesium 137	0.009	0.053	0.11	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Cobalt 60	-0.056	0.056	0.093	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Lead 210	-0.008	0.98	1.9	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Protactinium 231	0.2	1.1	2.1	PCI/G	UJ	T06
SU1-BD124-06	F5L080237	GAMMA	Radium (226)	0.8	0.19	0.39	PCI/G	=	
SU1-BD124-06	F5L080237	GAMMA	Thorium 229	0.44	0.46	0.92	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	EML A-01-R	Plutonium-238	0.011	0.021	0.033	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	EML A-01-R	Plutonium-239/240	-0.002	0.013	0.026	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	EML A-01-R	Thorium-228	0.43	0.11	0.04	PCI/G	=	
SU1-BD124-07	F5L080237	EML A-01-R	Thorium-230	0.76	0.16	0.03	PCI/G	=	
SU1-BD124-07	F5L080237	EML A-01-R	Thorium-232	0.36	0.1	0.03	PCI/G	=	
SU1-BD124-07	F5L080237	GAMMA	Actinium 227	-0.06	0.28	0.42	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	GAMMA	Americium 241	-0.08	0.11	0.18	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	GAMMA	Bismuth-207	0.009	0.033	0.069	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	GAMMA	Bismuth-210M	0.018	0.055	0.1	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	GAMMA	Cesium 137	-0.037	0.043	0.068	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	GAMMA	Cobalt 60	-0.019	0.073	0.13	PCI/G	UJ	T06

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(see R and V text for more info)

SU1-BD124-07	F5L080237	GAMMA	Lead 210	1.7	1.3	2.7	PCI/G	U	T05
SU1-BD124-07	F5L080237	GAMMA	Protactinium 231	0.6	1.3	2.4	PCI/G	UJ	T06
SU1-BD124-07	F5L080237	GAMMA	Radium (226)	0.6	0.22	0.45	PCI/G	=	
SU1-BD124-07	F5L080237	GAMMA	Thorium 229	0.39	0.52	1	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	EML A-01-R	Plutonium-238	0.005	0.016	0.029	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	EML A-01-R	Plutonium-239/240	-0.002	0.011	0.023	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	EML A-01-R	Thorium-228	0.51	0.16	0.09	PCI/G	=	
SU1-BD124-08	F5L080237	EML A-01-R	Thorium-230	0.99	0.24	0.05	PCI/G	=	
SU1-BD124-08	F5L080237	EML A-01-R	Thorium-232	0.52	0.16	0.05	PCI/G	=	
SU1-BD124-08	F5L080237	GAMMA	Actinium 227	-0.007	0.31	0.46	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Americium 241	0.008	0.096	0.17	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Bismuth-207	-0.014	0.039	0.07	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Bismuth-210M	-0.047	0.057	0.092	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Cesium 137	-0.021	0.054	0.096	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Cobalt 60	-0.03	0.049	0.086	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Lead 210	1.3	1.2	2.3	PCI/G	U	T05
SU1-BD124-08	F5L080237	GAMMA	Protactinium 231	0.6	1.4	2.5	PCI/G	UJ	T06
SU1-BD124-08	F5L080237	GAMMA	Radium (226)	0.75	0.22	0.42	PCI/G	=	
SU1-BD124-08	F5L080237	GAMMA	Thorium 229	0.05	0.54	0.99	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	EML A-01-R	Plutonium-238	0.0003	0.014	0.03	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU1-BD124-09	F5L080237	EML A-01-R	Thorium-228	0.44	0.14	0.06	PCI/G	=	
SU1-BD124-09	F5L080237	EML A-01-R	Thorium-230	0.78	0.19	0.04	PCI/G	=	
SU1-BD124-09	F5L080237	EML A-01-R	Thorium-232	0.4	0.13	0.04	PCI/G	=	
SU1-BD124-09	F5L080237	GAMMA	Actinium 227	0.06	0.23	0.36	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Americium 241	-0.043	0.073	0.13	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Bismuth-207	-0.012	0.03	0.053	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Bismuth-210M	-0.031	0.048	0.081	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Cesium 137	-0.012	0.052	0.099	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Cobalt 60	-0.026	0.056	0.11	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Lead 210	0.53	0.89	1.8	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Protactinium 231	-0.04	1.1	1.8	PCI/G	UJ	T06
SU1-BD124-09	F5L080237	GAMMA	Radium (226)	0.65	0.18	0.36	PCI/G	=	
SU1-BD124-09	F5L080237	GAMMA	Thorium 229	0.19	0.48	0.89	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	EML A-01-R	Plutonium-238	0.008	0.015	0.023	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	EML A-01-R	Plutonium-239/240	-0.0009	0.01	0.02	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	EML A-01-R	Thorium-228	0.32	0.16	0.11	PCI/G	J	T04
SU1-BD124-10	F5L080237	EML A-01-R	Thorium-230	0.76	0.26	0.09	PCI/G	=	
SU1-BD124-10	F5L080237	EML A-01-R	Thorium-232	0.43	0.18	0.06	PCI/G	=	
SU1-BD124-10	F5L080237	GAMMA	Actinium 227	-0.08	0.24	0.36	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Americium 241	-0.051	0.096	0.16	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Bismuth-207	0.002	0.045	0.086	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Bismuth-210M	-0.025	0.058	0.099	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Cesium 137	-0.023	0.049	0.087	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Cobalt 60	0.06	0.052	0.14	PCI/G	U	T05
SU1-BD124-10	F5L080237	GAMMA	Lead 210	0.08	1.2	2.3	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Protactinium 231	-0.5	1.3	2.1	PCI/G	UJ	T06
SU1-BD124-10	F5L080237	GAMMA	Radium (226)	0.74	0.25	0.47	PCI/G	=	
SU1-BD124-10	F5L080237	GAMMA	Thorium 229	-0.18	0.58	1	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	EML A-01-R	Plutonium-238	0.006	0.019	0.034	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	EML A-01-R	Plutonium-239/240	0.005	0.019	0.036	PCI/G	UJ	T06

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(see R and V text for more info)

SU1-BD124-11	F5L080237	EML A-01-R	Thorium-228	0.32	0.11	0.05	PCI/G	=	
SU1-BD124-11	F5L080237	EML A-01-R	Thorium-230	0.79	0.18	0.04	PCI/G	=	
SU1-BD124-11	F5L080237	EML A-01-R	Thorium-232	0.38	0.12	0.02	PCI/G	=	
SU1-BD124-11	F5L080237	GAMMA	Actinium 227	0.18	0.22	0.37	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Americium 241	0.018	0.071	0.13	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Bismuth-207	-0.008	0.03	0.054	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Bismuth-210M	-0.039	0.046	0.075	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Cesium 137	-0.024	0.043	0.074	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Cobalt 60	-0.022	0.048	0.084	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Lead 210	0.37	0.98	1.8	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Protactinium 231	0.7	1.2	2	PCI/G	UJ	T06
SU1-BD124-11	F5L080237	GAMMA	Radium (226)	0.84	0.21	0.15	PCI/G	=	
SU1-BD124-11	F5L080237	GAMMA	Thorium 229	-0.18	0.46	0.77	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	EML A-01-R	Plutonium-238	0.099	0.053	0.047	PCI/G	J	T04
SU1-BD124-12	F5L080237	EML A-01-R	Plutonium-239/240	0.002	0.013	0.027	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	EML A-01-R	Thorium-228	1.82	0.47	0.09	PCI/G	=	
SU1-BD124-12	F5L080237	EML A-01-R	Thorium-230	1.49	0.4	0.08	PCI/G	=	
SU1-BD124-12	F5L080237	EML A-01-R	Thorium-232	1.66	0.43	0.07	PCI/G	=	
SU1-BD124-12	F5L080237	GAMMA	Actinium 227	0.83	0.48	0.79	PCI/G	J	T04
SU1-BD124-12	F5L080237	GAMMA	Americium 241	0.02	0.14	0.24	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	GAMMA	Bismuth-207	-0.024	0.055	0.096	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	GAMMA	Bismuth-210M	-0.099	0.089	0.14	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	GAMMA	Cesium 137	0.035	0.078	0.15	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	GAMMA	Cobalt 60	-0.053	0.046	0.058	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	GAMMA	Lead 210	1.4	1.6	2.9	PCI/G	UJ	T06
SU1-BD124-12	F5L080237	GAMMA	Protactinium 231	3.4	1.4	3.7	PCI/G	U	T05
SU1-BD124-12	F5L080237	GAMMA	Radium (226)	0.94	0.25	0.24	PCI/G	=	
SU1-BD124-12	F5L080237	GAMMA	Thorium 229	-0.07	0.82	1.4	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	EML A-01-R	Plutonium-238	0.012	0.031	0.047	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	EML A-01-R	Plutonium-239/240	0.008	0.021	0.034	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	EML A-01-R	Thorium-228	0.183	0.07	0.042	PCI/G	=	
SU1-BD124-13	F5L080237	EML A-01-R	Thorium-230	0.41	0.11	0.03	PCI/G	=	
SU1-BD124-13	F5L080237	EML A-01-R	Thorium-232	0.232	0.077	0.032	PCI/G	=	
SU1-BD124-13	F5L080237	GAMMA	Actinium 227	-0.05	0.21	0.31	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Americium 241	0.062	0.079	0.15	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Bismuth-207	-0.008	0.034	0.061	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Bismuth-210M	0.047	0.047	0.094	PCI/G	U	T05
SU1-BD124-13	F5L080237	GAMMA	Cesium 137	0.01	0.046	0.095	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Cobalt 60	0.002	0.052	0.11	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Lead 210	0.37	0.91	1.8	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Protactinium 231	-0.16	0.93	1.7	PCI/G	UJ	T06
SU1-BD124-13	F5L080237	GAMMA	Radium (226)	0.81	0.19	0.38	PCI/G	=	
SU1-BD124-13	F5L080237	GAMMA	Thorium 229	0.25	0.46	0.86	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	EML A-01-R	Plutonium-238	0.001	0.025	0.045	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	EML A-01-R	Plutonium-239/240	0.005	0.015	0.014	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	EML A-01-R	Thorium-228	0.34	0.096	0.03	PCI/G	=	
SU1-BD124-14	F5L080237	EML A-01-R	Thorium-230	0.91	0.18	0.03	PCI/G	=	
SU1-BD124-14	F5L080237	EML A-01-R	Thorium-232	0.323	0.093	0.027	PCI/G	=	
SU1-BD124-14	F5L080237	GAMMA	Actinium 227	0.07	0.26	0.43	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Americium 241	-0.064	0.099	0.16	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Bismuth-207	0.027	0.042	0.089	PCI/G	UJ	T06

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(see R and V text for more info)

SU1-BD124-14	F5L080237	GAMMA	Bismuth-210M	-0.016	0.057	0.1	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Cesium 137	-0.008	0.049	0.093	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Cobalt 60	0.029	0.054	0.13	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Lead 210	0.8	1.2	2.5	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Protactinium 231	-0.7	1.2	2	PCI/G	UJ	T06
SU1-BD124-14	F5L080237	GAMMA	Radium (226)	0.58	0.2	0.42	PCI/G	=	
SU1-BD124-14	F5L080237	GAMMA	Thorium 229	-0.26	0.54	0.94	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	EML A-01-R	Plutonium-238	0.023	0.028	0.036	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	EML A-01-R	Plutonium-239/240	0.002	0.013	0.028	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	EML A-01-R	Thorium-228	0.3	0.12	0.05	PCI/G	=	
SU1-BD124-15	F5L080237	EML A-01-R	Thorium-230	0.72	0.21	0.05	PCI/G	=	
SU1-BD124-15	F5L080237	EML A-01-R	Thorium-232	0.38	0.14	0.05	PCI/G	=	
SU1-BD124-15	F5L080237	GAMMA	Actinium 227	0.18	0.25	0.41	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Americium 241	-0.026	0.086	0.14	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Bismuth-207	0.01	0.031	0.06	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Bismuth-210M	-0.045	0.047	0.075	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Cesium 137	-0.007	0.04	0.073	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Cobalt 60	0.026	0.049	0.11	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Lead 210	0.44	0.97	1.9	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Protactinium 231	0.07	1.2	2	PCI/G	UJ	T06
SU1-BD124-15	F5L080237	GAMMA	Radium (226)	0.66	0.19	0.15	PCI/G	=	
SU1-BD124-15	F5L080237	GAMMA	Thorium 229	0.06	0.53	0.94	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	EML A-01-R	Plutonium-238	0.005	0.019	0.035	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	EML A-01-R	Plutonium-239/240	-0.002	0.013	0.026	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	EML A-01-R	Thorium-228	0.36	0.12	0.05	PCI/G	=	
SU1-BD124-15D	F5L080237	EML A-01-R	Thorium-230	0.91	0.22	0.04	PCI/G	=	
SU1-BD124-15D	F5L080237	EML A-01-R	Thorium-232	0.37	0.12	0.02	PCI/G	=	
SU1-BD124-15D	F5L080237	GAMMA	Actinium 227	0.08	0.27	0.43	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Americium 241	0.028	0.095	0.17	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Bismuth-207	-0.016	0.044	0.079	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Bismuth-210M	-0.042	0.062	0.1	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Cesium 137	-0.009	0.041	0.076	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Cobalt 60	0.004	0.06	0.12	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Lead 210	1.5	1.1	2.3	PCI/G	U	T05
SU1-BD124-15D	F5L080237	GAMMA	Protactinium 231	1.1	1.3	2.4	PCI/G	UJ	T06
SU1-BD124-15D	F5L080237	GAMMA	Radium (226)	0.62	0.18	0.16	PCI/G	=	
SU1-BD124-15D	F5L080237	GAMMA	Thorium 229	0.51	0.58	1.1	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	EML A-01-R	Plutonium-238	0.019	0.025	0.034	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	EML A-01-R	Plutonium-239/240	0.005	0.014	0.014	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	EML A-01-R	Thorium-228	0.56	0.12	0.03	PCI/G	=	
SU1-BD124-16	F5L080237	EML A-01-R	Thorium-230	0.97	0.18	0.02	PCI/G	=	
SU1-BD124-16	F5L080237	EML A-01-R	Thorium-232	0.65	0.14	0.02	PCI/G	=	
SU1-BD124-16	F5L080237	GAMMA	Actinium 227	0.07	0.29	0.46	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Americium 241	0.06	0.11	0.2	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Bismuth-207	-0.015	0.046	0.08	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Bismuth-210M	-0.015	0.062	0.11	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Cesium 137	-0.047	0.057	0.1	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Cobalt 60	0.025	0.055	0.13	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Lead 210	0.8	1.1	2.2	PCI/G	UJ	T06
SU1-BD124-16	F5L080237	GAMMA	Protactinium 231	1.5	1.3	2.5	PCI/G	U	T05
SU1-BD124-16	F5L080237	GAMMA	Radium (226)	0.88	0.23	0.44	PCI/G	=	

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(see R and V text for more info)

SU1-BD124-16	F5L080237	GAMMA	Thorium 229	-0.32	0.6	1	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	EML A-01-R	Plutonium-238	0.0003	0.015	0.034	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	EML A-01-R	Plutonium-239/240	0.005	0.015	0.015	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	EML A-01-R	Thorium-228	0.42	0.16	0.07	PCI/G	=	
SU1-BD124-17	F5L080237	EML A-01-R	Thorium-230	0.94	0.27	0.03	PCI/G	=	
SU1-BD124-17	F5L080237	EML A-01-R	Thorium-232	0.49	0.18	0.05	PCI/G	=	
SU1-BD124-17	F5L080237	GAMMA	Actinium 227	0.11	0.23	0.39	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Americium 241	-0.006	0.1	0.17	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Bismuth-207	-0.011	0.042	0.076	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Bismuth-210M	-0.007	0.06	0.11	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Cesium 137	0.012	0.051	0.1	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Cobalt 60	-0.008	0.041	0.083	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Lead 210	0.05	1.1	2.1	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Protactinium 231	-0.4	1.2	2.1	PCI/G	UJ	T06
SU1-BD124-17	F5L080237	GAMMA	Radium (226)	0.88	0.22	0.45	PCI/G	=	
SU1-BD124-17	F5L080237	GAMMA	Thorium 229	0.37	0.47	0.94	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	EML A-01-R	Plutonium-238	0.013	0.024	0.036	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	EML A-01-R	Plutonium-239/240	0.003	0.012	0.025	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	EML A-01-R	Thorium-228	0.47	0.16	0.08	PCI/G	=	
SU1-BD124-18	F5L080237	EML A-01-R	Thorium-230	0.88	0.24	0.04	PCI/G	=	
SU1-BD124-18	F5L080237	EML A-01-R	Thorium-232	0.51	0.17	0.03	PCI/G	=	
SU1-BD124-18	F5L080237	GAMMA	Actinium 227	-0.02	0.27	0.41	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Americium 241	0.012	0.099	0.15	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Bismuth-207	0.049	0.035	0.076	PCI/G	U	T05
SU1-BD124-18	F5L080237	GAMMA	Bismuth-210M	-0.01	0.051	0.089	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Cesium 137	-0.019	0.046	0.08	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Cobalt 60	0.005	0.054	0.11	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Lead 210	-0.3	1.1	1.9	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Protactinium 231	0.6	1.1	2	PCI/G	UJ	T06
SU1-BD124-18	F5L080237	GAMMA	Radium (226)	0.86	0.19	0.37	PCI/G	=	
SU1-BD124-18	F5L080237	GAMMA	Thorium 229	0.04	0.53	0.94	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	EML A-01-R	Plutonium-238	0.018	0.023	0.029	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	EML A-01-R	Plutonium-239/240	0.003	0.013	0.026	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	EML A-01-R	Thorium-228	1.12	0.25	0.05	PCI/G	=	
SU1-BD124-19	F5L080237	EML A-01-R	Thorium-230	0.82	0.2	0.03	PCI/G	=	
SU1-BD124-19	F5L080237	EML A-01-R	Thorium-232	0.87	0.2	0.03	PCI/G	=	
SU1-BD124-19	F5L080237	GAMMA	Actinium 227	0.3	0.37	0.63	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Americium 241	-0.04	0.14	0.24	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Bismuth-207	0.012	0.055	0.11	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Bismuth-210M	-0.118	0.085	0.12	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Cesium 137	0.007	0.066	0.13	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Cobalt 60	-0.006	0.075	0.15	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Lead 210	0.4	1.6	2.9	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Protactinium 231	1.6	1.8	3.4	PCI/G	UJ	T06
SU1-BD124-19	F5L080237	GAMMA	Radium (226)	0.81	0.3	0.28	PCI/G	=	
SU1-BD124-19	F5L080237	GAMMA	Thorium 229	-0.75	0.82	1.3	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	EML A-01-R	Plutonium-238	0.008	0.029	0.046	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	EML A-01-R	Plutonium-239/240	-0.003	0.012	0.027	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	EML A-01-R	Thorium-228	1.05	0.24	0.09	PCI/G	J	G02
SU1-BD124-20	F5L080330	EML A-01-R	Thorium-230	0.82	0.2	0.06	PCI/G	J	G02
SU1-BD124-20	F5L080330	EML A-01-R	Thorium-232	1.11	0.25	0.07	PCI/G	J	G02

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(see R and V text for more info)

SU1-BD124-20	F5L080330	GAMMA	Actinium 227	0.72	0.45	0.81	PCI/G	U	T05
SU1-BD124-20	F5L080330	GAMMA	Americium 241	0.03	0.16	0.28	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Bismuth-207	0.018	0.066	0.13	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Bismuth-210M	-0.077	0.086	0.14	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Cesium 137	0.019	0.089	0.17	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Cobalt 60	0.009	0.095	0.19	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Lead 210	1.3	2	3.8	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Protactinium 231	-1.3	2.1	3.2	PCI/G	UJ	T06
SU1-BD124-20	F5L080330	GAMMA	Radium (226)	0.59	0.29	0.56	PCI/G	=	
SU1-BD124-20	F5L080330	GAMMA	Thorium 229	0.45	0.82	1.5	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	EML A-01-R	Plutonium-238	0.057	0.04	0.041	PCI/G	J	T04
SU1-BD124-21	F5L080330	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU1-BD124-21	F5L080330	EML A-01-R	Thorium-228	0.55	0.15	0.04	PCI/G	=	
SU1-BD124-21	F5L080330	EML A-01-R	Thorium-230	1	0.22	0.03	PCI/G	=	
SU1-BD124-21	F5L080330	EML A-01-R	Thorium-232	0.45	0.13	0.03	PCI/G	=	
SU1-BD124-21	F5L080330	GAMMA	Actinium 227	0.12	0.26	0.42	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Americium 241	-0.052	0.089	0.15	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Bismuth-207	0.006	0.034	0.068	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Bismuth-210M	0.034	0.054	0.11	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Cesium 137	-0.018	0.058	0.11	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Cobalt 60	-0.014	0.06	0.12	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Lead 210	-0.24	0.99	1.9	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Protactinium 231	-0.06	1	1.9	PCI/G	UJ	T06
SU1-BD124-21	F5L080330	GAMMA	Radium (226)	0.85	0.2	0.42	PCI/G	=	
SU1-BD124-21	F5L080330	GAMMA	Thorium 229	-0.51	0.55	0.88	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	EML A-01-R	Plutonium-238	-0.009	0.018	0.041	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	EML A-01-R	Plutonium-239/240	0.008	0.018	0.031	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	EML A-01-R	Thorium-228	0.9	0.24	0.06	PCI/G	=	
SU1-BD124-22	F5L080330	EML A-01-R	Thorium-230	0.82	0.22	0.06	PCI/G	=	
SU1-BD124-22	F5L080330	EML A-01-R	Thorium-232	0.96	0.25	0.04	PCI/G	=	
SU1-BD124-22	F5L080330	GAMMA	Actinium 227	0.18	0.43	0.72	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Americium 241	-0.16	0.17	0.27	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Bismuth-207	0.086	0.063	0.15	PCI/G	U	T05
SU1-BD124-22	F5L080330	GAMMA	Bismuth-210M	0.051	0.088	0.17	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Cesium 137	-0.096	0.08	0.11	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Cobalt 60	-0.069	0.091	0.14	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Lead 210	-0.5	2	3.6	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Protactinium 231	0.2	2.1	3.8	PCI/G	UJ	T06
SU1-BD124-22	F5L080330	GAMMA	Radium (226)	1.06	0.35	0.66	PCI/G	=	
SU1-BD124-22	F5L080330	GAMMA	Thorium 229	0.42	0.8	1.6	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	EML A-01-R	Plutonium-238	0.01	0.021	0.034	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.026	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	EML A-01-R	Thorium-228	1	0.22	0.04	PCI/G	=	
SU1-BD124-23	F5L080330	EML A-01-R	Thorium-230	0.77	0.18	0.02	PCI/G	=	
SU1-BD124-23	F5L080330	EML A-01-R	Thorium-232	1.11	0.24	0.03	PCI/G	=	
SU1-BD124-23	F5L080330	GAMMA	Actinium 227	0.4	0.45	0.75	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	GAMMA	Americium 241	-0.0002	0.16	0.28	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	GAMMA	Bismuth-207	-0.027	0.07	0.12	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	GAMMA	Bismuth-210M	-0.116	0.0997	0.15	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	GAMMA	Cesium 137	-0.074	0.086	0.14	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	GAMMA	Cobalt 60	-0.02	0.12	0.22	PCI/G	UJ	T06

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(see R and V text for more info)

SU1-BD124-23	F5L080330	GAMMA	Lead 210	0.5	1.8	3.5	PCI/G	UJ	T06
SU1-BD124-23	F5L080330	GAMMA	Protactinium 231	2.9	2.3	4.1	PCI/G	U	T05
SU1-BD124-23	F5L080330	GAMMA	Radium (226)	0.85	0.35	0.58	PCI/G	=	
SU1-BD124-23	F5L080330	GAMMA	Thorium 229	-0.28	0.92	1.6	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	EML A-01-R	Plutonium-238	0.01	0.025	0.041	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	EML A-01-R	Plutonium-239/240	0	0	0.02	PCI/G	U	T05
SU1-BD124-24	F5L080330	EML A-01-R	Thorium-228	1.29	0.25	0.05	PCI/G	=	
SU1-BD124-24	F5L080330	EML A-01-R	Thorium-230	0.69	0.16	0.03	PCI/G	=	
SU1-BD124-24	F5L080330	EML A-01-R	Thorium-232	1.19	0.23	0.02	PCI/G	=	
SU1-BD124-24	F5L080330	GAMMA	Actinium 227	0.42	0.5	0.82	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	GAMMA	Americium 241	0.06	0.16	0.28	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	GAMMA	Bismuth-207	-0.006	0.07	0.13	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	GAMMA	Bismuth-210M	-0.061	0.093	0.15	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	GAMMA	Cesium 137	0.015	0.095	0.18	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	GAMMA	Cobalt 60	0.05	0.12	0.24	PCI/G	UJ	T06
SU1-BD124-24	F5L080330	GAMMA	Lead 210	2	1.9	3.7	PCI/G	U	T05
SU1-BD124-24	F5L080330	GAMMA	Protactinium 231	3.4	2.5	4.4	PCI/G	U	T05
SU1-BD124-24	F5L080330	GAMMA	Radium (226)	0.82	0.32	0.57	PCI/G	=	
SU1-BD124-24	F5L080330	GAMMA	Thorium 229	-0.55	0.96	1.6	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	EML A-01-R	Plutonium-238	-0.005	0.014	0.032	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU1-BD124-25	F5L080330	EML A-01-R	Thorium-228	1.15	0.34	0.09	PCI/G	=	
SU1-BD124-25	F5L080330	EML A-01-R	Thorium-230	1.02	0.31	0.04	PCI/G	=	
SU1-BD124-25	F5L080330	EML A-01-R	Thorium-232	1.67	0.44	0.07	PCI/G	=	
SU1-BD124-25	F5L080330	GAMMA	Actinium 227	0.42	0.47	0.78	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	GAMMA	Americium 241	0.007	0.18	0.28	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	GAMMA	Bismuth-207	0	0	0.1	PCI/G	U	T05
SU1-BD124-25	F5L080330	GAMMA	Bismuth-210M	-0.032	0.097	0.17	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	GAMMA	Cesium 137	0.001	0.11	0.2	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	GAMMA	Cobalt 60	-0.09	0.12	0.19	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	GAMMA	Lead 210	2.1	2	3.9	PCI/G	U	T05
SU1-BD124-25	F5L080330	GAMMA	Protactinium 231	1.2	2.4	4	PCI/G	UJ	T06
SU1-BD124-25	F5L080330	GAMMA	Radium (226)	0.98	0.33	0.29	PCI/G	=	
SU1-BD124-25	F5L080330	GAMMA	Thorium 229	0.31	0.93	1.7	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	EML A-01-R	Plutonium-238	0.018	0.027	0.037	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	EML A-01-R	Plutonium-239/240	0.003	0.012	0.026	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	EML A-01-R	Thorium-228	1.03	0.29	0.07	PCI/G	=	
SU1-BD124-26	F5L080330	EML A-01-R	Thorium-230	0.95	0.28	0.05	PCI/G	=	
SU1-BD124-26	F5L080330	EML A-01-R	Thorium-232	1.04	0.3	0.03	PCI/G	=	
SU1-BD124-26	F5L080330	GAMMA	Actinium 227	-0.04	0.54	0.81	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Americium 241	-0.03	0.2	0.34	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Bismuth-207	0.056	0.074	0.16	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Bismuth-210M	-0.04	0.1	0.18	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Cesium 137	-0.017	0.088	0.16	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Cobalt 60	-0.076	0.099	0.16	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Lead 210	2	2.2	4.2	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Protactinium 231	0.2	2.7	4.7	PCI/G	UJ	T06
SU1-BD124-26	F5L080330	GAMMA	Radium (226)	1	0.36	0.69	PCI/G	=	
SU1-BD124-26	F5L080330	GAMMA	Thorium 229	0.3	1	1.9	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	EML A-01-R	Plutonium-238	0.043	0.032	0.028	PCI/G	J	T04
SU1-BD124-31	F5L080330	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.025	PCI/G	UJ	T06

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(see R and V text for more info)

SU1-BD124-31	F5L080330	EML A-01-R	Thorium-228	0.179	0.067	0.042	PCI/G	=	
SU1-BD124-31	F5L080330	EML A-01-R	Thorium-230	0.43	0.11	0.03	PCI/G	=	
SU1-BD124-31	F5L080330	EML A-01-R	Thorium-232	0.202	0.069	0.028	PCI/G	=	
SU1-BD124-31	F5L080330	GAMMA	Actinium 227	0.1	0.17	0.3	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Americium 241	0.01	0.062	0.12	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Bismuth-207	0.008	0.028	0.058	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Bismuth-210M	0.0008	0.04	0.074	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Cesium 137	-0.011	0.036	0.074	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Cobalt 60	0.001	0.038	0.089	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Lead 210	0.61	0.85	1.8	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Protactinium 231	0.31	0.92	1.8	PCI/G	UJ	T06
SU1-BD124-31	F5L080330	GAMMA	Radium (226)	0.4	0.16	0.3	PCI/G	=	
SU1-BD124-31	F5L080330	GAMMA	Thorium 229	0.06	0.39	0.72	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	EML A-01-R	Plutonium-238	0.225	0.073	0.032	PCI/G	=	
SU1-BD124-32	F5L080330	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.025	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	EML A-01-R	Thorium-228	0.226	0.095	0.042	PCI/G	=	
SU1-BD124-32	F5L080330	EML A-01-R	Thorium-230	0.55	0.16	0.02	PCI/G	=	
SU1-BD124-32	F5L080330	EML A-01-R	Thorium-232	0.194	0.087	0.023	PCI/G	=	
SU1-BD124-32	F5L080330	GAMMA	Actinium 227	-0.06	0.19	0.28	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Americium 241	-0.045	0.072	0.12	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Bismuth-207	-0.006	0.025	0.049	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Bismuth-210M	-0.034	0.044	0.071	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Cesium 137	-0.023	0.033	0.055	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Cobalt 60	0.0004	0.036	0.078	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Lead 210	0.004	0.88	1.7	PCI/G	UJ	T06
SU1-BD124-32	F5L080330	GAMMA	Protactinium 231	1.4	1.1	2.2	PCI/G	U	T05
SU1-BD124-32	F5L080330	GAMMA	Radium (226)	0.45	0.16	0.33	PCI/G	=	
SU1-BD124-32	F5L080330	GAMMA	Thorium 229	0.05	0.45	0.84	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	EML A-01-R	Plutonium-238	0.48	0.11	0.03	PCI/G	=	
SU1-BD124-33	F5L080330	EML A-01-R	Plutonium-239/240	-0.002	0.011	0.024	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	EML A-01-R	Thorium-228	0.223	0.085	0.054	PCI/G	=	
SU1-BD124-33	F5L080330	EML A-01-R	Thorium-230	0.49	0.13	0.04	PCI/G	=	
SU1-BD124-33	F5L080330	EML A-01-R	Thorium-232	0.237	0.085	0.041	PCI/G	=	
SU1-BD124-33	F5L080330	GAMMA	Actinium 227	0.14	0.24	0.39	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Americium 241	-0.002	0.065	0.12	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Bismuth-207	0.002	0.03	0.06	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Bismuth-210M	-0.038	0.038	0.058	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Cesium 137	0.004	0.039	0.078	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Cobalt 60	0.042	0.043	0.11	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Lead 210	-0.03	0.87	1.6	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Protactinium 231	0.67	0.94	1.8	PCI/G	UJ	T06
SU1-BD124-33	F5L080330	GAMMA	Radium (226)	0.4	0.15	0.3	PCI/G	=	
SU1-BD124-33	F5L080330	GAMMA	Thorium 229	0.27	0.46	0.87	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	EML A-01-R	Plutonium-238	0.126	0.054	0.031	PCI/G	=	
SU1-BD124-34	F5L080330	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.025	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	EML A-01-R	Thorium-228	0.14	0.061	0.041	PCI/G	=	
SU1-BD124-34	F5L080330	EML A-01-R	Thorium-230	0.245	0.08	0.032	PCI/G	J	F01
SU1-BD124-34	F5L080330	EML A-01-R	Thorium-232	0.083	0.046	0.034	PCI/G	J	T04
SU1-BD124-34	F5L080330	GAMMA	Actinium 227	-0.04	0.2	0.29	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	GAMMA	Americium 241	-0.016	0.057	0.1	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	GAMMA	Bismuth-207	0.002	0.029	0.056	PCI/G	UJ	T06

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(see R and V text for more info)

SU1-BD124-34	F5L080330	GAMMA	Bismuth-210M	-0.002	0.036	0.066	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	GAMMA	Cesium 137	0.007	0.038	0.081	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	GAMMA	Cobalt 60	-0.028	0.045	0.085	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	GAMMA	Lead 210	1.04	0.79	1.7	PCI/G	U	T05
SU1-BD124-34	F5L080330	GAMMA	Protactinium 231	-0.09	0.79	1.5	PCI/G	UJ	T06
SU1-BD124-34	F5L080330	GAMMA	Radium (226)	0.4	0.13	0.28	PCI/G	=	
SU1-BD124-34	F5L080330	GAMMA	Thorium 229	-0.19	0.34	0.57	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	EML A-01-R	Plutonium-238	0.009	0.025	0.04	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	EML A-01-R	Plutonium-239/240	0.004	0.011	0.021	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	EML A-01-R	Thorium-228	0.27	0.13	0.08	PCI/G	=	
SU1-BD124-35	F5L080330	EML A-01-R	Thorium-230	0.77	0.25	0.04	PCI/G	=	
SU1-BD124-35	F5L080330	EML A-01-R	Thorium-232	0.22	0.12	0.06	PCI/G	J	T04
SU1-BD124-35	F5L080330	GAMMA	Actinium 227	0.13	0.2	0.36	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Americium 241	-0.019	0.079	0.14	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Bismuth-207	-0.011	0.026	0.048	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Bismuth-210M	-0.006	0.043	0.079	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Cesium 137	-0.008	0.041	0.078	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Cobalt 60	-0.0002	0.024	0.061	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Lead 210	0.6	1	2.1	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Protactinium 231	0.09	1.2	2.2	PCI/G	UJ	T06
SU1-BD124-35	F5L080330	GAMMA	Radium (226)	0.58	0.19	0.39	PCI/G	=	
SU1-BD124-35	F5L080330	GAMMA	Thorium 229	-0.01	0.48	0.89	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	EML A-01-R	Plutonium-238	0.011	0.021	0.033	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.026	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	EML A-01-R	Thorium-228	0.28	0.13	0.06	PCI/G	=	
SU1-BD124-36	F5L080330	EML A-01-R	Thorium-230	0.57	0.2	0.03	PCI/G	J	F01
SU1-BD124-36	F5L080330	EML A-01-R	Thorium-232	0.34	0.14	0.05	PCI/G	=	
SU1-BD124-36	F5L080330	GAMMA	Actinium 227	-0.03	0.23	0.35	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Americium 241	-0.03	0.072	0.12	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Bismuth-207	-0.004	0.033	0.063	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Bismuth-210M	-0.037	0.044	0.069	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Cesium 137	0.004	0.033	0.067	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Cobalt 60	0.007	0.035	0.081	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Lead 210	0.35	0.85	1.7	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Protactinium 231	0.7	1.1	2.1	PCI/G	UJ	T06
SU1-BD124-36	F5L080330	GAMMA	Radium (226)	0.4	0.15	0.3	PCI/G	=	
SU1-BD124-36	F5L080330	GAMMA	Thorium 229	-0.06	0.43	0.76	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	EML A-01-R	Plutonium-238	0.335	0.089	0.028	PCI/G	=	
SU1-BD124-37	F5L080330	EML A-01-R	Plutonium-239/240	0.003	0.012	0.024	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	EML A-01-R	Thorium-228	0.28	0.15	0.1	PCI/G	J	T04
SU1-BD124-37	F5L080330	EML A-01-R	Thorium-230	0.61	0.23	0.06	PCI/G	J	F01
SU1-BD124-37	F5L080330	EML A-01-R	Thorium-232	0.33	0.15	0.06	PCI/G	=	
SU1-BD124-37	F5L080330	GAMMA	Actinium 227	-0.02	0.19	0.29	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Americium 241	0.037	0.061	0.12	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Bismuth-207	0.005	0.029	0.057	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Bismuth-210M	-0.016	0.04	0.07	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Cesium 137	0.008	0.045	0.092	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Cobalt 60	0.043	0.045	0.11	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Lead 210	0.23	0.74	1.5	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Protactinium 231	-0.23	0.92	1.6	PCI/G	UJ	T06
SU1-BD124-37	F5L080330	GAMMA	Radium (226)	0.65	0.16	0.13	PCI/G	=	

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(see R and V text for more info)

SU1-BD124-37	F5L080330	GAMMA	Thorium 229	0.08	0.39	0.73	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	EML A-01-R	Plutonium-238	0.003	0.012	0.025	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	EML A-01-R	Plutonium-239/240	-0.001	0.011	0.022	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	EML A-01-R	Thorium-228	0.286	0.09	0.043	PCI/G	=	
SU1-BD124-38	F5L080330	EML A-01-R	Thorium-230	0.6	0.14	0.02	PCI/G	=	
SU1-BD124-38	F5L080330	EML A-01-R	Thorium-232	0.22	0.078	0.039	PCI/G	=	
SU1-BD124-38	F5L080330	GAMMA	Actinium 227	-0.04	0.21	0.32	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Americium 241	0.017	0.079	0.14	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Bismuth-207	0.025	0.033	0.074	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Bismuth-210M	-0.031	0.049	0.081	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Cesium 137	-0.027	0.035	0.056	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Cobalt 60	-0.0006	0.04	0.087	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Lead 210	0.07	1	2	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Protactinium 231	0.5	1	1.9	PCI/G	UJ	T06
SU1-BD124-38	F5L080330	GAMMA	Radium (226)	0.51	0.18	0.37	PCI/G	=	
SU1-BD124-38	F5L080330	GAMMA	Thorium 229	-0.11	0.46	0.83	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	EML A-01-R	Plutonium-238	0.221	0.071	0.029	PCI/G	=	
SU1-BD124-39	F5L080330	EML A-01-R	Plutonium-239/240	0.002	0.013	0.027	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	EML A-01-R	Thorium-228	0.31	0.12	0.06	PCI/G	=	
SU1-BD124-39	F5L080330	EML A-01-R	Thorium-230	0.56	0.17	0.04	PCI/G	=	
SU1-BD124-39	F5L080330	EML A-01-R	Thorium-232	0.29	0.12	0.04	PCI/G	=	
SU1-BD124-39	F5L080330	GAMMA	Actinium 227	0.22	0.23	0.4	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Americium 241	0.00006	0.072	0.13	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Bismuth-207	0.006	0.027	0.056	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Bismuth-210M	-0.055	0.05	0.075	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Cesium 137	-0.005	0.042	0.079	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Cobalt 60	-0.04	0.038	0.051	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Lead 210	0.47	0.93	1.8	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Protactinium 231	-0.02	0.92	1.7	PCI/G	UJ	T06
SU1-BD124-39	F5L080330	GAMMA	Radium (226)	0.55	0.15	0.34	PCI/G	=	
SU1-BD124-39	F5L080330	GAMMA	Thorium 229	-0.06	0.34	0.61	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	EML A-01-R	Plutonium-238	0.086	0.044	0.029	PCI/G	J	T04
SU1-BD124-40	F5L080330	EML A-01-R	Plutonium-239/240	0.002	0.013	0.027	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	EML A-01-R	Thorium-228	0.175	0.067	0.038	PCI/G	=	
SU1-BD124-40	F5L080330	EML A-01-R	Thorium-230	0.5	0.12	0.03	PCI/G	=	
SU1-BD124-40	F5L080330	EML A-01-R	Thorium-232	0.163	0.063	0.029	PCI/G	=	
SU1-BD124-40	F5L080330	GAMMA	Actinium 227	0.06	0.19	0.32	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Americium 241	-0.024	0.053	0.095	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Bismuth-207	0.016	0.028	0.06	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Bismuth-210M	-0.02	0.039	0.068	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Cesium 137	0.006	0.044	0.09	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Cobalt 60	0.013	0.052	0.11	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Lead 210	-0.03	0.75	1.5	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Protactinium 231	0.39	0.8	1.5	PCI/G	UJ	T06
SU1-BD124-40	F5L080330	GAMMA	Radium (226)	0.25	0.14	0.29	PCI/G	U	T05
SU1-BD124-40	F5L080330	GAMMA	Thorium 229	0.02	0.43	0.77	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	EML A-01-R	Plutonium-238	0.393	0.096	0.024	PCI/G	=	
SU1-BD124-41	F5L080330	EML A-01-R	Plutonium-239/240	0.003	0.011	0.024	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	EML A-01-R	Thorium-228	0.45	0.19	0.11	PCI/G	=	
SU1-BD124-41	F5L080330	EML A-01-R	Thorium-230	0.87	0.28	0.08	PCI/G	=	
SU1-BD124-41	F5L080330	EML A-01-R	Thorium-232	0.35	0.16	0.08	PCI/G	=	

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(see R and V text for more info)

SU1-BD124-41	F5L080330	GAMMA	Actinium 227	0.15	0.23	0.42	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Americium 241	0.032	0.098	0.18	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Bismuth-207	-0.006	0.036	0.074	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Bismuth-210M	0.011	0.054	0.1	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Cesium 137	-0.017	0.043	0.078	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Cobalt 60	0.009	0.032	0.085	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Lead 210	0.2	1.2	2.4	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Protactinium 231	0.2	1.3	2.4	PCI/G	UJ	T06
SU1-BD124-41	F5L080330	GAMMA	Radium (226)	0.38	0.2	0.39	PCI/G	U	T05
SU1-BD124-41	F5L080330	GAMMA	Thorium 229	0.02	0.53	0.99	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	EML A-01-R	Plutonium-238	0.118	0.05	0.026	PCI/G	=	
SU1-BD124-42	F5L080330	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU1-BD124-42	F5L080330	EML A-01-R	Thorium-228	0.271	0.093	0.05	PCI/G	=	
SU1-BD124-42	F5L080330	EML A-01-R	Thorium-230	0.6	0.14	0.03	PCI/G	=	
SU1-BD124-42	F5L080330	EML A-01-R	Thorium-232	0.244	0.084	0.033	PCI/G	=	
SU1-BD124-42	F5L080330	GAMMA	Actinium 227	-0.03	0.21	0.31	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Americium 241	-0.011	0.064	0.11	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Bismuth-207	0.003	0.03	0.058	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Bismuth-210M	-0.032	0.041	0.067	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Cesium 137	-0.007	0.04	0.073	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Cobalt 60	-0.023	0.041	0.07	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Lead 210	0.16	0.8	1.6	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Protactinium 231	0.38	0.98	1.7	PCI/G	UJ	T06
SU1-BD124-42	F5L080330	GAMMA	Radium (226)	0.37	0.14	0.28	PCI/G	=	
SU1-BD124-42	F5L080330	GAMMA	Thorium 229	-0.45	0.41	0.63	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	EML A-01-R	Plutonium-238	0.148	0.057	0.026	PCI/G	=	
SU1-BD124-43	F5L080330	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU1-BD124-43	F5L080330	EML A-01-R	Thorium-228	0.19	0.075	0.054	PCI/G	=	
SU1-BD124-43	F5L080330	EML A-01-R	Thorium-230	0.44	0.11	0.03	PCI/G	=	
SU1-BD124-43	F5L080330	EML A-01-R	Thorium-232	0.26	0.082	0.015	PCI/G	=	
SU1-BD124-43	F5L080330	GAMMA	Actinium 227	0.1	0.22	0.36	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Americium 241	-0.062	0.074	0.12	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Bismuth-207	0.012	0.029	0.061	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Bismuth-210M	-0.023	0.045	0.075	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Cesium 137	0.017	0.04	0.082	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Cobalt 60	0.015	0.046	0.1	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Lead 210	0.18	0.87	1.7	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Protactinium 231	-0.755	0.998	1.5	PCI/G	UJ	T06
SU1-BD124-43	F5L080330	GAMMA	Radium (226)	0.6	0.16	0.11	PCI/G	=	
SU1-BD124-43	F5L080330	GAMMA	Thorium 229	-0.22	0.42	0.71	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	EML A-01-R	Plutonium-238	0.093	0.05	0.042	PCI/G	J	T04
SU2-BD124-44	F5L080339	EML A-01-R	Plutonium-239/240	-0.004	0.013	0.029	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	EML A-01-R	Thorium-228	0.277	0.088	0.041	PCI/G	=	
SU2-BD124-44	F5L080339	EML A-01-R	Thorium-230	0.55	0.13	0.03	PCI/G	=	
SU2-BD124-44	F5L080339	EML A-01-R	Thorium-232	0.23	0.078	0.035	PCI/G	=	
SU2-BD124-44	F5L080339	GAMMA	Actinium 227	-0.02	0.14	0.22	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	GAMMA	Americium 241	0.014	0.059	0.1	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	GAMMA	Bismuth-207	0.004	0.021	0.042	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	GAMMA	Bismuth-210M	-0.009	0.035	0.061	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	GAMMA	Cesium 137	-0.015	0.032	0.056	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	GAMMA	Cobalt 60	-0.003	0.027	0.055	PCI/G	UJ	T06

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(see R and V text for more info)

SU2-BD124-44	F5L080339	GAMMA	Lead 210	-0.09	0.76	1.4	PCI/G	UJ	T06
SU2-BD124-44	F5L080339	GAMMA	Protactinium 231	0.95	0.95	1.8	PCI/G	U	T05
SU2-BD124-44	F5L080339	GAMMA	Radium (226)	0.3	0.12	0.23	PCI/G	=	
SU2-BD124-44	F5L080339	GAMMA	Thorium 229	0.3	0.33	0.64	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	EML A-01-R	Plutonium-238	0.091	0.05	0.042	PCI/G	J	T04
SU2-BD124-44D	F5L080339	EML A-01-R	Plutonium-239/240	0.004	0.012	0.023	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	EML A-01-R	Thorium-228	0.264	0.088	0.042	PCI/G	=	
SU2-BD124-44D	F5L080339	EML A-01-R	Thorium-230	0.52	0.13	0.03	PCI/G	=	
SU2-BD124-44D	F5L080339	EML A-01-R	Thorium-232	0.256	0.085	0.032	PCI/G	=	
SU2-BD124-44D	F5L080339	GAMMA	Actinium 227	-0.003	0.16	0.25	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Americium 241	0.032	0.058	0.1	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Bismuth-207	0.009	0.022	0.045	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Bismuth-210M	-0.024	0.035	0.057	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Cesium 137	-0.016	0.031	0.053	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Cobalt 60	0.014	0.032	0.071	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Lead 210	0.62	0.69	1.4	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Protactinium 231	0.69	0.73	1.4	PCI/G	UJ	T06
SU2-BD124-44D	F5L080339	GAMMA	Radium (226)	0.28	0.13	0.22	PCI/G	=	
SU2-BD124-44D	F5L080339	GAMMA	Thorium 229	0.2	0.35	0.64	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	EML A-01-R	Plutonium-238	0.042	0.034	0.035	PCI/G	J	T04
SU2-BD124-45	F5L080339	EML A-01-R	Plutonium-239/240	0.005	0.015	0.015	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	EML A-01-R	Thorium-228	0.48	0.13	0.05	PCI/G	=	
SU2-BD124-45	F5L080339	EML A-01-R	Thorium-230	0.69	0.16	0.03	PCI/G	=	
SU2-BD124-45	F5L080339	EML A-01-R	Thorium-232	0.5	0.13	0.03	PCI/G	=	
SU2-BD124-45	F5L080339	GAMMA	Actinium 227	0.36	0.23	0.41	PCI/G	U	T05
SU2-BD124-45	F5L080339	GAMMA	Americium 241	0.032	0.073	0.13	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Bismuth-207	0.004	0.036	0.066	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Bismuth-210M	-0.045	0.046	0.073	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Cesium 137	-0.011	0.042	0.076	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Cobalt 60	0.007	0.048	0.096	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Lead 210	0.37	0.88	1.7	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Protactinium 231	-0.2	1.1	1.7	PCI/G	UJ	T06
SU2-BD124-45	F5L080339	GAMMA	Radium (226)	0.45	0.16	0.29	PCI/G	=	
SU2-BD124-45	F5L080339	GAMMA	Thorium 229	-0.19	0.42	0.7	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	EML A-01-R	Plutonium-238	0.095	0.047	0.036	PCI/G	=	
SU2-BD124-46	F5L080339	EML A-01-R	Plutonium-239/240	-0.002	0.014	0.032	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	EML A-01-R	Thorium-228	0.33	0.12	0.08	PCI/G	=	
SU2-BD124-46	F5L080339	EML A-01-R	Thorium-230	0.57	0.16	0.04	PCI/G	=	
SU2-BD124-46	F5L080339	EML A-01-R	Thorium-232	0.33	0.11	0.02	PCI/G	=	
SU2-BD124-46	F5L080339	GAMMA	Actinium 227	0.18	0.15	0.28	PCI/G	U	T05
SU2-BD124-46	F5L080339	GAMMA	Americium 241	-0.02	0.056	0.1	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Bismuth-207	0.008	0.024	0.049	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Bismuth-210M	-0.025	0.039	0.067	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Cesium 137	-0.01	0.034	0.068	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Cobalt 60	-0.004	0.037	0.079	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Lead 210	0.09	0.68	1.4	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Protactinium 231	0.29	0.72	1.4	PCI/G	UJ	T06
SU2-BD124-46	F5L080339	GAMMA	Radium (226)	0.35	0.13	0.26	PCI/G	=	
SU2-BD124-46	F5L080339	GAMMA	Thorium 229	-0.09	0.34	0.59	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	EML A-01-R	Plutonium-238	0.024	0.033	0.045	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	EML A-01-R	Plutonium-239/240	-0.003	0.016	0.036	PCI/G	UJ	T06

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(see R and V text for more info)

SU2-BD124-47	F5L080339	EML A-01-R	Thorium-228	0.29	0.1	0.06	PCI/G	=	
SU2-BD124-47	F5L080339	EML A-01-R	Thorium-230	0.73	0.17	0.03	PCI/G	=	
SU2-BD124-47	F5L080339	EML A-01-R	Thorium-232	0.33	0.1	0.03	PCI/G	=	
SU2-BD124-47	F5L080339	GAMMA	Actinium 227	0.21	0.21	0.39	PCI/G	U	T05
SU2-BD124-47	F5L080339	GAMMA	Americium 241	0.019	0.075	0.13	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	GAMMA	Bismuth-207	-0.01	0.025	0.046	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	GAMMA	Bismuth-210M	-0.017	0.047	0.082	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	GAMMA	Cesium 137	0.02	0.036	0.079	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	GAMMA	Cobalt 60	-0.0003	0.029	0.067	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	GAMMA	Lead 210	1.1	1	2.1	PCI/G	U	T05
SU2-BD124-47	F5L080339	GAMMA	Protactinium 231	-0.2	1.1	1.8	PCI/G	UJ	T06
SU2-BD124-47	F5L080339	GAMMA	Radium (226)	0.44	0.15	0.32	PCI/G	=	
SU2-BD124-47	F5L080339	GAMMA	Thorium 229	-0.06	0.47	0.84	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	EML A-01-R	Plutonium-238	0.061	0.041	0.04	PCI/G	J	T04
SU2-BD124-47D	F5L080339	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU2-BD124-47D	F5L080339	EML A-01-R	Thorium-228	0.3	0.1	0.06	PCI/G	=	
SU2-BD124-47D	F5L080339	EML A-01-R	Thorium-230	0.57	0.14	0.04	PCI/G	=	
SU2-BD124-47D	F5L080339	EML A-01-R	Thorium-232	0.299	0.094	0.035	PCI/G	=	
SU2-BD124-47D	F5L080339	GAMMA	Actinium 227	0.07	0.2	0.32	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Americium 241	-0.013	0.067	0.11	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Bismuth-207	0.024	0.031	0.063	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Bismuth-210M	-0.011	0.035	0.062	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Cesium 137	0.013	0.035	0.071	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Cobalt 60	0.006	0.033	0.073	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Lead 210	0.37	0.82	1.6	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Protactinium 231	0.13	0.92	1.6	PCI/G	UJ	T06
SU2-BD124-47D	F5L080339	GAMMA	Radium (226)	0.53	0.15	0.1	PCI/G	=	
SU2-BD124-47D	F5L080339	GAMMA	Thorium 229	0.42	0.43	0.81	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	EML A-01-R	Plutonium-238	1.55	0.24	0.04	PCI/G	=	
SU2-BD124-48	F5L080339	EML A-01-R	Plutonium-239/240	0.002	0.012	0.026	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	EML A-01-R	Thorium-228	0.94	0.22	0.06	PCI/G	=	
SU2-BD124-48	F5L080339	EML A-01-R	Thorium-230	0.9	0.22	0.04	PCI/G	=	
SU2-BD124-48	F5L080339	EML A-01-R	Thorium-232	0.94	0.22	0.04	PCI/G	=	
SU2-BD124-48	F5L080339	GAMMA	Actinium 227	0.51	0.32	0.56	PCI/G	U	T05
SU2-BD124-48	F5L080339	GAMMA	Americium 241	-0.009	0.12	0.2	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Bismuth-207	0.004	0.044	0.084	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Bismuth-210M	-0.012	0.062	0.11	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Cesium 137	0.01	0.058	0.11	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Cobalt 60	0.025	0.062	0.13	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Lead 210	0.6	1.3	2.4	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Protactinium 231	1.3	1.5	2.6	PCI/G	UJ	T06
SU2-BD124-48	F5L080339	GAMMA	Radium (226)	0.61	0.21	0.39	PCI/G	=	
SU2-BD124-48	F5L080339	GAMMA	Thorium 229	0.09	0.64	1.1	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	EML A-01-R	Plutonium-238	0.369	0.097	0.04	PCI/G	=	
SU2-BD124-49	F5L080339	EML A-01-R	Plutonium-239/240	0.005	0.014	0.014	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	EML A-01-R	Thorium-228	0.65	0.18	0.06	PCI/G	=	
SU2-BD124-49	F5L080339	EML A-01-R	Thorium-230	0.58	0.17	0.05	PCI/G	=	
SU2-BD124-49	F5L080339	EML A-01-R	Thorium-232	0.71	0.19	0.04	PCI/G	=	
SU2-BD124-49	F5L080339	GAMMA	Actinium 227	0.06	0.25	0.38	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	GAMMA	Americium 241	0.035	0.09	0.16	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	GAMMA	Bismuth-207	0.002	0.041	0.075	PCI/G	UJ	T06

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(see R and V text for more info)

SU2-BD124-49	F5L080339	GAMMA	Bismuth-210M	-0.041	0.044	0.071	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	GAMMA	Cesium 137	-0.032	0.051	0.092	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	GAMMA	Cobalt 60	-0.003	0.055	0.11	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	GAMMA	Lead 210	0.29	0.93	1.8	PCI/G	UJ	T06
SU2-BD124-49	F5L080339	GAMMA	Protactinium 231	1.38	0.9	2.1	PCI/G	U	T05
SU2-BD124-49	F5L080339	GAMMA	Radium (226)	0.6	0.19	0.34	PCI/G	=	
SU2-BD124-49	F5L080339	GAMMA	Thorium 229	0.1	0.5	0.9	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	EML A-01-R	Plutonium-238	0.44	0.1	0.04	PCI/G	=	
SU2-BD124-50	F5L080339	EML A-01-R	Plutonium-239/240	0.001	0.012	0.027	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	EML A-01-R	Thorium-228	0.46	0.13	0.05	PCI/G	=	
SU2-BD124-50	F5L080339	EML A-01-R	Thorium-230	0.66	0.16	0.04	PCI/G	=	
SU2-BD124-50	F5L080339	EML A-01-R	Thorium-232	0.52	0.14	0.02	PCI/G	=	
SU2-BD124-50	F5L080339	GAMMA	Actinium 227	0.09	0.28	0.45	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Americium 241	0.02	0.1	0.18	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Bismuth-207	-0.009	0.035	0.065	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Bismuth-210M	0.006	0.048	0.09	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Cesium 137	0.01	0.06	0.12	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Cobalt 60	-0.0004	0.033	0.076	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Lead 210	1.4	1.2	2.5	PCI/G	U	T05
SU2-BD124-50	F5L080339	GAMMA	Protactinium 231	0.2	1.4	2.5	PCI/G	UJ	T06
SU2-BD124-50	F5L080339	GAMMA	Radium (226)	0.61	0.2	0.4	PCI/G	=	
SU2-BD124-50	F5L080339	GAMMA	Thorium 229	-0.04	0.55	0.99	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	EML A-01-R	Plutonium-238	0.33	0.1	0.05	PCI/G	=	
SU2-BD124-51	F5L080339	EML A-01-R	Plutonium-239/240	-0.002	0.014	0.029	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	EML A-01-R	Thorium-228	0.149	0.072	0.047	PCI/G	=	
SU2-BD124-51	F5L080339	EML A-01-R	Thorium-230	0.4	0.12	0.04	PCI/G	=	
SU2-BD124-51	F5L080339	EML A-01-R	Thorium-232	0.211	0.083	0.035	PCI/G	=	
SU2-BD124-51	F5L080339	GAMMA	Actinium 227	-0.1	0.19	0.26	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Americium 241	-0.002	0.058	0.1	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Bismuth-207	0.01	0.026	0.052	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Bismuth-210M	-0.02	0.036	0.061	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Cesium 137	-0.0006	0.029	0.057	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Cobalt 60	-0.043	0.034	0.038	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Lead 210	0.47	0.69	1.4	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Protactinium 231	0.48	0.78	1.4	PCI/G	UJ	T06
SU2-BD124-51	F5L080339	GAMMA	Radium (226)	0.33	0.14	0.24	PCI/G	=	
SU2-BD124-51	F5L080339	GAMMA	Thorium 229	-0.11	0.34	0.58	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	EML A-01-R	Plutonium-238	0.077	0.049	0.047	PCI/G	J	T04
SU2-BD124-52	F5L080339	EML A-01-R	Plutonium-239/240	-0.001	0.011	0.022	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	EML A-01-R	Thorium-228	0.289	0.098	0.042	PCI/G	=	
SU2-BD124-52	F5L080339	EML A-01-R	Thorium-230	0.61	0.15	0.03	PCI/G	=	
SU2-BD124-52	F5L080339	EML A-01-R	Thorium-232	0.245	0.088	0.033	PCI/G	=	
SU2-BD124-52	F5L080339	GAMMA	Actinium 227	0.13	0.21	0.35	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Americium 241	-0.049	0.073	0.12	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Bismuth-207	0.009	0.028	0.058	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Bismuth-210M	-0.018	0.042	0.071	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Cesium 137	-0.005	0.035	0.066	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Cobalt 60	0.013	0.036	0.083	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Lead 210	-0.16	0.81	1.5	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Protactinium 231	0.06	0.99	1.7	PCI/G	UJ	T06
SU2-BD124-52	F5L080339	GAMMA	Radium (226)	0.38	0.14	0.29	PCI/G	=	

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(see R and V text for more info)

SU2-BD124-52	F5L080339	GAMMA	Thorium 229	-0.06	0.42	0.75	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	EML A-01-R	Plutonium-238	0.229	0.079	0.05	PCI/G	=	
SU2-BD124-53	F5L080339	EML A-01-R	Plutonium-239/240	-0.002	0.016	0.036	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	EML A-01-R	Thorium-228	0.268	0.09	0.042	PCI/G	=	
SU2-BD124-53	F5L080339	EML A-01-R	Thorium-230	0.65	0.15	0.03	PCI/G	=	
SU2-BD124-53	F5L080339	EML A-01-R	Thorium-232	0.249	0.084	0.026	PCI/G	=	
SU2-BD124-53	F5L080339	GAMMA	Actinium 227	-0.02	0.19	0.28	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Americium 241	0.027	0.063	0.11	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Bismuth-207	0.014	0.023	0.049	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Bismuth-210M	0.002	0.035	0.065	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Cesium 137	0.003	0.04	0.08	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Cobalt 60	0.013	0.035	0.084	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Lead 210	0.21	0.69	1.4	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Protactinium 231	0.24	0.78	1.5	PCI/G	UJ	T06
SU2-BD124-53	F5L080339	GAMMA	Radium (226)	0.3	0.12	0.12	PCI/G	=	
SU2-BD124-53	F5L080339	GAMMA	Thorium 229	-0.06	0.34	0.6	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	EML A-01-R	Plutonium-238	0.017	0.032	0.047	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU2-BD124-54	F5L080339	EML A-01-R	Thorium-228	0.25	0.097	0.05	PCI/G	=	
SU2-BD124-54	F5L080339	EML A-01-R	Thorium-230	0.57	0.15	0.03	PCI/G	=	
SU2-BD124-54	F5L080339	EML A-01-R	Thorium-232	0.243	0.093	0.021	PCI/G	=	
SU2-BD124-54	F5L080339	GAMMA	Actinium 227	-0.44	0.23	0.31	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Americium 241	0.082	0.072	0.14	PCI/G	U	T05
SU2-BD124-54	F5L080339	GAMMA	Bismuth-207	0.004	0.028	0.057	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Bismuth-210M	-0.035	0.034	0.052	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Cesium 137	0.014	0.028	0.064	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Cobalt 60	0.013	0.032	0.079	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Lead 210	0.16	0.77	1.6	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Protactinium 231	0.6	0.84	1.7	PCI/G	UJ	T06
SU2-BD124-54	F5L080339	GAMMA	Radium (226)	0.31	0.13	0.28	PCI/G	=	
SU2-BD124-54	F5L080339	GAMMA	Thorium 229	0.12	0.34	0.66	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	EML A-01-R	Plutonium-238	0.027	0.028	0.035	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	EML A-01-R	Plutonium-239/240	0.002	0.012	0.026	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	EML A-01-R	Thorium-228	0.238	0.079	0.035	PCI/G	=	
SU2-BD124-55	F5L080339	EML A-01-R	Thorium-230	0.62	0.14	0.02	PCI/G	=	
SU2-BD124-55	F5L080339	EML A-01-R	Thorium-232	0.28	0.085	0.023	PCI/G	=	
SU2-BD124-55	F5L080339	GAMMA	Actinium 227	0.21	0.17	0.31	PCI/G	U	T05
SU2-BD124-55	F5L080339	GAMMA	Americium 241	0.063	0.063	0.12	PCI/G	U	T05
SU2-BD124-55	F5L080339	GAMMA	Bismuth-207	-0.025	0.026	0.041	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	GAMMA	Bismuth-210M	-0.011	0.037	0.065	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	GAMMA	Cesium 137	0.027	0.032	0.07	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	GAMMA	Cobalt 60	-0.012	0.038	0.071	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	GAMMA	Lead 210	1.08	0.79	1.6	PCI/G	U	T05
SU2-BD124-55	F5L080339	GAMMA	Protactinium 231	-0.3	0.96	1.6	PCI/G	UJ	T06
SU2-BD124-55	F5L080339	GAMMA	Radium (226)	0.35	0.14	0.26	PCI/G	=	
SU2-BD124-55	F5L080339	GAMMA	Thorium 229	-0.28	0.4	0.66	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	EML A-01-R	Plutonium-238	0.01	0.022	0.035	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	EML A-01-R	Plutonium-239/240	0.003	0.013	0.027	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	EML A-01-R	Thorium-228	0.222	0.093	0.058	PCI/G	=	
SU2-BD124-57	F5L080339	EML A-01-R	Thorium-230	0.52	0.14	0.03	PCI/G	=	
SU2-BD124-57	F5L080339	EML A-01-R	Thorium-232	0.25	0.095	0.021	PCI/G	=	

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(see R and V text for more info)

SU2-BD124-57	F5L080339	GAMMA	Actinium 227	0.03	0.19	0.3	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Americium 241	0.016	0.068	0.12	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Bismuth-207	0.01	0.023	0.05	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Bismuth-210M	-0.019	0.035	0.059	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Cesium 137	0.011	0.036	0.074	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Cobalt 60	0.006	0.021	0.056	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Lead 210	-0.25	0.75	1.4	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Protactinium 231	0.06	0.88	1.5	PCI/G	UJ	T06
SU2-BD124-57	F5L080339	GAMMA	Radium (226)	0.35	0.14	0.27	PCI/G	=	
SU2-BD124-57	F5L080339	GAMMA	Thorium 229	-0.16	0.37	0.64	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	EML A-01-R	Plutonium-238	0.041	0.035	0.036	PCI/G	J	T04
SU2-BD124-58	F5L080339	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU2-BD124-58	F5L080339	EML A-01-R	Thorium-228	0.22	0.08	0.033	PCI/G	=	
SU2-BD124-58	F5L080339	EML A-01-R	Thorium-230	0.38	0.11	0.02	PCI/G	=	
SU2-BD124-58	F5L080339	EML A-01-R	Thorium-232	0.184	0.072	0.026	PCI/G	=	
SU2-BD124-58	F5L080339	GAMMA	Actinium 227	0.09	0.17	0.28	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Americium 241	-0.003	0.048	0.088	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Bismuth-207	0.002	0.023	0.044	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Bismuth-210M	0.0006	0.03	0.057	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Cesium 137	-0.037	0.03	0.049	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Cobalt 60	0.011	0.034	0.08	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Lead 210	0.11	0.63	1.3	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Protactinium 231	0.04	0.67	1.3	PCI/G	UJ	T06
SU2-BD124-58	F5L080339	GAMMA	Radium (226)	0.27	0.12	0.23	PCI/G	=	
SU2-BD124-58	F5L080339	GAMMA	Thorium 229	-0.28	0.37	0.6	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	EML A-01-R	Plutonium-238	0.032	0.03	0.033	PCI/G	U	T05
SU2-BD124-59	F5L080339	EML A-01-R	Plutonium-239/240	-0.002	0.011	0.024	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	EML A-01-R	Thorium-228	0.44	0.16	0.08	PCI/G	=	
SU2-BD124-59	F5L080339	EML A-01-R	Thorium-230	0.69	0.21	0.03	PCI/G	=	
SU2-BD124-59	F5L080339	EML A-01-R	Thorium-232	0.28	0.12	0.04	PCI/G	=	
SU2-BD124-59	F5L080339	GAMMA	Actinium 227	-0.08	0.21	0.3	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Americium 241	0.041	0.077	0.14	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Bismuth-207	0.008	0.033	0.067	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Bismuth-210M	0.003	0.038	0.073	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Cesium 137	-0.0003	0.035	0.071	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Cobalt 60	0.051	0.044	0.12	PCI/G	U	T05
SU2-BD124-59	F5L080339	GAMMA	Lead 210	0.59	0.96	2	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Protactinium 231	0.6	1	1.9	PCI/G	UJ	T06
SU2-BD124-59	F5L080339	GAMMA	Radium (226)	0.46	0.15	0.33	PCI/G	=	
SU2-BD124-59	F5L080339	GAMMA	Thorium 229	0.01	0.43	0.8	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	EML A-01-R	Plutonium-238	0.0003	0.014	0.032	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU2-BD124-60	F5L080339	EML A-01-R	Thorium-228	0.218	0.082	0.051	PCI/G	=	
SU2-BD124-60	F5L080339	EML A-01-R	Thorium-230	0.45	0.12	0.03	PCI/G	=	
SU2-BD124-60	F5L080339	EML A-01-R	Thorium-232	0.177	0.069	0.025	PCI/G	=	
SU2-BD124-60	F5L080339	GAMMA	Actinium 227	-0.01	0.2	0.3	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	GAMMA	Americium 241	-0.017	0.063	0.11	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	GAMMA	Bismuth-207	-0.006	0.026	0.048	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	GAMMA	Bismuth-210M	-0.029	0.047	0.078	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	GAMMA	Cesium 137	0.01	0.043	0.084	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	GAMMA	Cobalt 60	-0.018	0.037	0.066	PCI/G	UJ	T06

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(see R and V text for more info)

SU2-BD124-60	F5L080339	GAMMA	Lead 210	0.17	0.8	1.6	PCI/G	UJ	T06
SU2-BD124-60	F5L080339	GAMMA	Protactinium 231	1.3	0.95	1.9	PCI/G	U	T05
SU2-BD124-60	F5L080339	GAMMA	Radium (226)	0.42	0.15	0.28	PCI/G	=	
SU2-BD124-60	F5L080339	GAMMA	Thorium 229	-0.14	0.44	0.75	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	EML A-01-R	Plutonium-238	0.008	0.022	0.038	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	EML A-01-R	Plutonium-239/240	0.003	0.012	0.026	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	EML A-01-R	Thorium-228	0.28	0.1	0.07	PCI/G	=	
SU2-BD124-61	F5L080339	EML A-01-R	Thorium-230	0.62	0.15	0.04	PCI/G	=	
SU2-BD124-61	F5L080339	EML A-01-R	Thorium-232	0.258	0.092	0.039	PCI/G	=	
SU2-BD124-61	F5L080339	GAMMA	Actinium 227	0.18	0.2	0.35	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Americium 241	0.085	0.067	0.13	PCI/G	U	T05
SU2-BD124-61	F5L080339	GAMMA	Bismuth-207	0.024	0.03	0.064	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Bismuth-210M	0.017	0.041	0.078	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Cesium 137	-0.023	0.033	0.055	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Cobalt 60	0.014	0.031	0.076	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Lead 210	0.6	0.84	1.7	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Protactinium 231	0.09	0.98	1.6	PCI/G	UJ	T06
SU2-BD124-61	F5L080339	GAMMA	Radium (226)	0.46	0.14	0.29	PCI/G	=	
SU2-BD124-61	F5L080339	GAMMA	Thorium 229	0.004	0.42	0.76	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	EML A-01-R	Plutonium-238	0.201	0.069	0.032	PCI/G	=	
SU2-BD124-62	F5L080339	EML A-01-R	Plutonium-239/240	0.003	0.012	0.025	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	EML A-01-R	Thorium-228	0.47	0.13	0.06	PCI/G	=	
SU2-BD124-62	F5L080339	EML A-01-R	Thorium-230	0.78	0.18	0.03	PCI/G	=	
SU2-BD124-62	F5L080339	EML A-01-R	Thorium-232	0.53	0.14	0.03	PCI/G	=	
SU2-BD124-62	F5L080339	GAMMA	Actinium 227	-0.02	0.19	0.28	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Americium 241	-0.006	0.074	0.13	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Bismuth-207	0.027	0.031	0.066	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Bismuth-210M	0.008	0.037	0.071	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Cesium 137	0.017	0.042	0.089	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Cobalt 60	0.002	0.048	0.1	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Lead 210	-0.35	0.72	1.4	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Protactinium 231	0.33	0.94	1.8	PCI/G	UJ	T06
SU2-BD124-62	F5L080339	GAMMA	Radium (226)	0.56	0.15	0.31	PCI/G	=	
SU2-BD124-62	F5L080339	GAMMA	Thorium 229	-0.13	0.41	0.71	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	EML A-01-R	Plutonium-238	0.009	0.026	0.042	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	EML A-01-R	Plutonium-239/240	-0.001	0.011	0.022	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	EML A-01-R	Thorium-228	0.5	0.13	0.04	PCI/G	J	J01
SU2-BD124-63	F5L080350	EML A-01-R	Thorium-230	0.69	0.15	0.03	PCI/G	=	
SU2-BD124-63	F5L080350	EML A-01-R	Thorium-232	0.5	0.13	0.02	PCI/G	J	J01
SU2-BD124-63	F5L080350	GAMMA	Actinium 227	0.006	0.19	0.29	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Americium 241	0.026	0.062	0.12	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Bismuth-207	0.002	0.033	0.062	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Bismuth-210M	-0.007	0.038	0.07	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Cesium 137	0.013	0.04	0.087	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Cobalt 60	-0.024	0.033	0.066	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Lead 210	-0.02	0.74	1.5	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Protactinium 231	0.54	0.95	1.9	PCI/G	UJ	T06
SU2-BD124-63	F5L080350	GAMMA	Radium (226)	0.5	0.15	0.31	PCI/G	=	
SU2-BD124-63	F5L080350	GAMMA	Thorium 229	-0.36	0.41	0.66	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	EML A-01-R	Plutonium-238	0.017	0.026	0.037	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.025	PCI/G	UJ	T06

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(see R and V text for more info)

SU2-BD124-64	F5L080350	EML A-01-R	Thorium-228	0.259	0.095	0.044	PCI/G	J	J01
SU2-BD124-64	F5L080350	EML A-01-R	Thorium-230	0.57	0.15	0.02	PCI/G	=	
SU2-BD124-64	F5L080350	EML A-01-R	Thorium-232	0.269	0.095	0.035	PCI/G	J	J01
SU2-BD124-64	F5L080350	GAMMA	Actinium 227	0.02	0.18	0.3	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Americium 241	-0.054	0.067	0.1	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Bismuth-207	0.011	0.027	0.058	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Bismuth-210M	-0.022	0.044	0.075	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Cesium 137	0.024	0.031	0.074	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Cobalt 60	0.007	0.025	0.067	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Lead 210	0.67	0.94	1.9	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Protactinium 231	0.07	0.83	1.6	PCI/G	UJ	T06
SU2-BD124-64	F5L080350	GAMMA	Radium (226)	0.4	0.12	0.29	PCI/G	=	
SU2-BD124-64	F5L080350	GAMMA	Thorium 229	-0.08	0.39	0.7	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	EML A-01-R	Plutonium-238	0.007	0.019	0.034	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	EML A-01-R	Plutonium-239/240	0.003	0.015	0.032	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	EML A-01-R	Thorium-228	0.178	0.075	0.029	PCI/G	J	J01
SU2-BD124-65	F5L080350	EML A-01-R	Thorium-230	0.48	0.13	0.04	PCI/G	=	
SU2-BD124-65	F5L080350	EML A-01-R	Thorium-232	0.213	0.083	0.019	PCI/G	J	J01
SU2-BD124-65	F5L080350	GAMMA	Actinium 227	0.01	0.17	0.27	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Americium 241	0.021	0.055	0.096	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Bismuth-207	0.007	0.025	0.049	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Bismuth-210M	-0.017	0.034	0.057	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Cesium 137	0.012	0.033	0.066	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Cobalt 60	-0.032	0.042	0.067	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Lead 210	-0.14	0.73	1.4	PCI/G	UJ	T06
SU2-BD124-65	F5L080350	GAMMA	Protactinium 231	1.24	0.85	1.7	PCI/G	U	T05
SU2-BD124-65	F5L080350	GAMMA	Radium (226)	0.5	0.13	0.27	PCI/G	=	
SU2-BD124-65	F5L080350	GAMMA	Thorium 229	-0.11	0.31	0.54	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	EML A-01-R	Plutonium-238	0.012	0.018	0.026	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU2-BD124-66	F5L080350	EML A-01-R	Thorium-228	0.42	0.12	0.04	PCI/G	J	J01
SU2-BD124-66	F5L080350	EML A-01-R	Thorium-230	0.9	0.19	0.03	PCI/G	=	
SU2-BD124-66	F5L080350	EML A-01-R	Thorium-232	0.52	0.13	0.03	PCI/G	J	J01
SU2-BD124-66	F5L080350	GAMMA	Actinium 227	0.12	0.22	0.37	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Americium 241	0.077	0.085	0.16	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Bismuth-207	0.012	0.035	0.071	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Bismuth-210M	0.03	0.052	0.099	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Cesium 137	-0.023	0.047	0.082	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Cobalt 60	0.023	0.039	0.097	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Lead 210	0.47	0.98	1.9	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Protactinium 231	0.4	1.1	2	PCI/G	UJ	T06
SU2-BD124-66	F5L080350	GAMMA	Radium (226)	0.62	0.2	0.37	PCI/G	=	
SU2-BD124-66	F5L080350	GAMMA	Thorium 229	-0.05	0.51	0.9	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	EML A-01-R	Plutonium-238	0.03	0.026	0.025	PCI/G	J	T04
SU2-BD124-67	F5L080350	EML A-01-R	Plutonium-239/240	0	0	0.01	PCI/G	U	T05
SU2-BD124-67	F5L080350	EML A-01-R	Thorium-228	0.38	0.11	0.04	PCI/G	J	J01
SU2-BD124-67	F5L080350	EML A-01-R	Thorium-230	0.73	0.16	0.02	PCI/G	=	
SU2-BD124-67	F5L080350	EML A-01-R	Thorium-232	0.87	0.18	0.02	PCI/G	J	J01
SU2-BD124-67	F5L080350	GAMMA	Actinium 227	-0.03	0.22	0.32	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	GAMMA	Americium 241	0.007	0.062	0.11	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	GAMMA	Bismuth-207	-0.023	0.031	0.049	PCI/G	UJ	T06

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(see R and V text for more info)

SU2-BD124-67	F5L080350	GAMMA	Bismuth-210M	-0.04	0.038	0.06	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	GAMMA	Cesium 137	0.017	0.041	0.088	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	GAMMA	Cobalt 60	0.025	0.04	0.099	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	GAMMA	Lead 210	1.31	0.83	1.8	PCI/G	U	T05
SU2-BD124-67	F5L080350	GAMMA	Protactinium 231	0.01	1	1.8	PCI/G	UJ	T06
SU2-BD124-67	F5L080350	GAMMA	Radium (226)	0.5	0.15	0.3	PCI/G	=	
SU2-BD124-67	F5L080350	GAMMA	Thorium 229	-0.06	0.42	0.74	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	EML A-01-R	Plutonium-238	0.063	0.039	0.032	PCI/G	J	T04
SU2-BD124-68	F5L080350	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.024	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	EML A-01-R	Thorium-228	0.34	0.12	0.06	PCI/G	J	J01
SU2-BD124-68	F5L080350	EML A-01-R	Thorium-230	0.67	0.17	0.04	PCI/G	=	
SU2-BD124-68	F5L080350	EML A-01-R	Thorium-232	0.31	0.11	0.04	PCI/G	J	J01
SU2-BD124-68	F5L080350	GAMMA	Actinium 227	-0.15	0.21	0.28	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Americium 241	-0.048	0.073	0.12	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Bismuth-207	0.009	0.021	0.049	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Bismuth-210M	0.021	0.045	0.089	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Cesium 137	0.001	0.041	0.081	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Cobalt 60	-0.015	0.03	0.054	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Lead 210	0.31	0.9	1.8	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Protactinium 231	-0.8	1	1.6	PCI/G	UJ	T06
SU2-BD124-68	F5L080350	GAMMA	Radium (226)	0.55	0.16	0.35	PCI/G	=	
SU2-BD124-68	F5L080350	GAMMA	Thorium 229	0.13	0.39	0.76	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	EML A-01-R	Plutonium-238	0.077	0.043	0.033	PCI/G	J	T04
SU2-BD124-69	F5L080350	EML A-01-R	Plutonium-239/240	-0.0009	0.011	0.021	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	EML A-01-R	Thorium-228	1.66	0.34	0.07	PCI/G	J	J01
SU2-BD124-69	F5L080350	EML A-01-R	Thorium-230	1.63	0.33	0.04	PCI/G	=	
SU2-BD124-69	F5L080350	EML A-01-R	Thorium-232	1.46	0.3	0.04	PCI/G	J	J01
SU2-BD124-69	F5L080350	GAMMA	Actinium 227	0.35	0.36	0.58	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	GAMMA	Americium 241	0.09	0.12	0.21	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	GAMMA	Bismuth-207	-0.004	0.046	0.081	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	GAMMA	Bismuth-210M	-0.004	0.069	0.1	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	GAMMA	Cesium 137	0.088	0.065	0.13	PCI/G	U	T05
SU2-BD124-69	F5L080350	GAMMA	Cobalt 60	-0.019	0.061	0.11	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	GAMMA	Lead 210	0.5	1.2	2.2	PCI/G	UJ	T06
SU2-BD124-69	F5L080350	GAMMA	Protactinium 231	3	1.1	3	PCI/G	=	
SU2-BD124-69	F5L080350	GAMMA	Radium (226)	0.68	0.22	0.18	PCI/G	=	
SU2-BD124-69	F5L080350	GAMMA	Thorium 229	-0.25	0.61	1	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	EML A-01-R	Plutonium-238	0.139	0.057	0.032	PCI/G	=	
SU2-BD124-70	F5L080350	EML A-01-R	Plutonium-239/240	-0.0009	0.011	0.021	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	EML A-01-R	Thorium-228	0.33	0.11	0.06	PCI/G	J	J01
SU2-BD124-70	F5L080350	EML A-01-R	Thorium-230	0.71	0.16	0.04	PCI/G	=	
SU2-BD124-70	F5L080350	EML A-01-R	Thorium-232	0.36	0.11	0.04	PCI/G	J	J01
SU2-BD124-70	F5L080350	GAMMA	Actinium 227	-0.11	0.23	0.33	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Americium 241	-0.004	0.069	0.13	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Bismuth-207	-0.007	0.028	0.05	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Bismuth-210M	-0.011	0.043	0.077	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Cesium 137	-0.019	0.047	0.089	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Cobalt 60	0.007	0.047	0.1	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Lead 210	-0.28	0.71	1.4	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Protactinium 231	-0.09	0.9	1.7	PCI/G	UJ	T06
SU2-BD124-70	F5L080350	GAMMA	Radium (226)	0.57	0.18	0.33	PCI/G	=	

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(see R and V text for more info)

SU2-BD124-70	F5L080350	GAMMA	Thorium 229	0.33	0.38	0.76	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	EML A-01-R	Plutonium-238	0.079	0.045	0.038	PCI/G	J	T04
SU2-BD124-71	F5L080350	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.025	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	EML A-01-R	Thorium-228	0.275	0.089	0.045	PCI/G	J	J01
SU2-BD124-71	F5L080350	EML A-01-R	Thorium-230	0.53	0.13	0.03	PCI/G	=	
SU2-BD124-71	F5L080350	EML A-01-R	Thorium-232	0.346	0.099	0.028	PCI/G	J	J01
SU2-BD124-71	F5L080350	GAMMA	Actinium 227	-0.05	0.23	0.35	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Americium 241	0.018	0.092	0.16	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Bismuth-207	0.009	0.028	0.061	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Bismuth-210M	-0.008	0.054	0.096	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Cesium 137	-0.018	0.047	0.084	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Cobalt 60	-0.016	0.042	0.079	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Lead 210	1.3	1.1	2.3	PCI/G	U	T05
SU2-BD124-71	F5L080350	GAMMA	Protactinium 231	-0.04	0.98	1.8	PCI/G	UJ	T06
SU2-BD124-71	F5L080350	GAMMA	Radium (226)	0.48	0.19	0.37	PCI/G	=	
SU2-BD124-71	F5L080350	GAMMA	Thorium 229	0.03	0.45	0.85	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	EML A-01-R	Plutonium-238	0.086	0.046	0.033	PCI/G	J	T04
SU2-BD124-72	F5L080350	EML A-01-R	Plutonium-239/240	-0.002	0.013	0.026	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	EML A-01-R	Thorium-228	0.304	0.091	0.039	PCI/G	J	J01
SU2-BD124-72	F5L080350	EML A-01-R	Thorium-230	0.46	0.11	0.03	PCI/G	=	
SU2-BD124-72	F5L080350	EML A-01-R	Thorium-232	0.244	0.079	0.023	PCI/G	J	J01
SU2-BD124-72	F5L080350	GAMMA	Actinium 227	-0.008	0.21	0.31	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Americium 241	-0.015	0.06	0.1	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Bismuth-207	-0.013	0.028	0.049	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Bismuth-210M	0.006	0.038	0.07	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Cesium 137	-0.027	0.037	0.061	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Cobalt 60	0.011	0.039	0.083	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Lead 210	0.74	0.81	1.6	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Protactinium 231	0.8	1	1.8	PCI/G	UJ	T06
SU2-BD124-72	F5L080350	GAMMA	Radium (226)	0.56	0.16	0.15	PCI/G	=	
SU2-BD124-72	F5L080350	GAMMA	Thorium 229	0.12	0.35	0.64	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	EML A-01-R	Plutonium-238	0.099	0.047	0.03	PCI/G	=	
SU2-BD124-73	F5L080350	EML A-01-R	Plutonium-239/240	-0.002	0.012	0.024	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	EML A-01-R	Thorium-228	0.3	0.1	0.05	PCI/G	J	J01
SU2-BD124-73	F5L080350	EML A-01-R	Thorium-230	0.6	0.15	0.04	PCI/G	=	
SU2-BD124-73	F5L080350	EML A-01-R	Thorium-232	0.251	0.092	0.019	PCI/G	J	J01
SU2-BD124-73	F5L080350	GAMMA	Actinium 227	-0.05	0.23	0.33	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Americium 241	0.019	0.066	0.12	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Bismuth-207	0.016	0.028	0.06	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Bismuth-210M	0.014	0.036	0.07	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Cesium 137	-0.008	0.037	0.069	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Cobalt 60	0.019	0.033	0.082	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Lead 210	0.29	0.79	1.5	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Protactinium 231	0.59	0.88	1.7	PCI/G	UJ	T06
SU2-BD124-73	F5L080350	GAMMA	Radium (226)	0.53	0.15	0.14	PCI/G	=	
SU2-BD124-73	F5L080350	GAMMA	Thorium 229	-0.43	0.42	0.66	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	EML A-01-R	Plutonium-238	0.026	0.027	0.032	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	EML A-01-R	Plutonium-239/240	0.01	0.021	0.033	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	EML A-01-R	Thorium-228	0.34	0.11	0.05	PCI/G	J	J01
SU2-BD124-74	F5L080350	EML A-01-R	Thorium-230	0.6	0.16	0.04	PCI/G	=	
SU2-BD124-74	F5L080350	EML A-01-R	Thorium-232	0.4	0.12	0.04	PCI/G	J	J01

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(see R and V text for more info)

SU2-BD124-74	F5L080350	GAMMA	Actinium 227	-0.03	0.22	0.32	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Americium 241	-0.016	0.082	0.15	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Bismuth-207	0.003	0.039	0.073	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Bismuth-210M	-0.008	0.051	0.091	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Cesium 137	-0.011	0.047	0.091	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Cobalt 60	0.032	0.056	0.12	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Lead 210	1.14	0.91	1.9	PCI/G	U	T05
SU2-BD124-74	F5L080350	GAMMA	Protactinium 231	0.8	1.1	2.1	PCI/G	UJ	T06
SU2-BD124-74	F5L080350	GAMMA	Radium (226)	0.82	0.21	0.38	PCI/G	=	
SU2-BD124-74	F5L080350	GAMMA	Thorium 229	-0.09	0.49	0.85	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	EML A-01-R	Plutonium-238	0.101	0.052	0.043	PCI/G	J	T04
SU2-BD124-75	F5L080350	EML A-01-R	Plutonium-239/240	-0.004	0.014	0.03	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	EML A-01-R	Thorium-228	0.32	0.1	0.04	PCI/G	J	J01
SU2-BD124-75	F5L080350	EML A-01-R	Thorium-230	0.86	0.19	0.03	PCI/G	=	
SU2-BD124-75	F5L080350	EML A-01-R	Thorium-232	0.277	0.095	0.033	PCI/G	J	J01
SU2-BD124-75	F5L080350	GAMMA	Actinium 227	-0.02	0.23	0.35	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Americium 241	0.008	0.08	0.14	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Bismuth-207	0.009	0.035	0.07	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Bismuth-210M	0.036	0.045	0.091	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Cesium 137	-0.045	0.041	0.059	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Cobalt 60	0.008	0.015	0.057	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Lead 210	0.95	0.96	2.1	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Protactinium 231	0.32	0.96	1.9	PCI/G	UJ	T06
SU2-BD124-75	F5L080350	GAMMA	Radium (226)	0.64	0.19	0.39	PCI/G	=	
SU2-BD124-75	F5L080350	GAMMA	Thorium 229	-0.12	0.42	0.76	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	EML A-01-R	Plutonium-238	0.06	0.042	0.043	PCI/G	J	T04
SU2-BD124-76	F5L080350	EML A-01-R	Plutonium-239/240	0.001	0.013	0.028	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	EML A-01-R	Thorium-228	0.39	0.11	0.04	PCI/G	J	J01
SU2-BD124-76	F5L080350	EML A-01-R	Thorium-230	0.68	0.15	0.03	PCI/G	=	
SU2-BD124-76	F5L080350	EML A-01-R	Thorium-232	0.4	0.11	0.03	PCI/G	J	J01
SU2-BD124-76	F5L080350	GAMMA	Actinium 227	0.19	0.18	0.32	PCI/G	U	T05
SU2-BD124-76	F5L080350	GAMMA	Americium 241	0.02	0.071	0.13	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Bismuth-207	-0.012	0.033	0.058	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Bismuth-210M	-0.017	0.042	0.073	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Cesium 137	-0.0006	0.04	0.076	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Cobalt 60	0.016	0.029	0.072	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Lead 210	0.63	0.79	1.6	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Protactinium 231	0.76	0.98	1.8	PCI/G	UJ	T06
SU2-BD124-76	F5L080350	GAMMA	Radium (226)	0.37	0.13	0.26	PCI/G	=	
SU2-BD124-76	F5L080350	GAMMA	Thorium 229	-0.06	0.35	0.61	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	EML A-01-R	Plutonium-238	0.046	0.038	0.041	PCI/G	J	T04
SU2-BD124-77	F5L080350	EML A-01-R	Plutonium-239/240	0.004	0.011	0.022	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	EML A-01-R	Thorium-228	0.37	0.12	0.04	PCI/G	J	J01
SU2-BD124-77	F5L080350	EML A-01-R	Thorium-230	0.66	0.18	0.04	PCI/G	=	
SU2-BD124-77	F5L080350	EML A-01-R	Thorium-232	0.28	0.1	0.04	PCI/G	J	J01
SU2-BD124-77	F5L080350	GAMMA	Actinium 227	0.02	0.22	0.34	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	GAMMA	Americium 241	0.082	0.071	0.14	PCI/G	U	T05
SU2-BD124-77	F5L080350	GAMMA	Bismuth-207	-0.016	0.029	0.051	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	GAMMA	Bismuth-210M	0.002	0.043	0.079	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	GAMMA	Cesium 137	-0.013	0.033	0.061	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	GAMMA	Cobalt 60	0.015	0.039	0.091	PCI/G	UJ	T06

R and V #2 Table

(see R and V text for more info)

SU2-BD124-77	F5L080350	GAMMA	Lead 210	1.2	1.2	1.4	PCI/G	U	T05
SU2-BD124-77	F5L080350	GAMMA	Protactinium 231	0.22	0.97	1.8	PCI/G	UJ	T06
SU2-BD124-77	F5L080350	GAMMA	Radium (226)	0.57	0.17	0.33	PCI/G	=	
SU2-BD124-77	F5L080350	GAMMA	Thorium 229	0.21	0.48	0.89	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	EML A-01-R	Plutonium-238	0.064	0.041	0.035	PCI/G	J	T04
SU2-BD124-78	F5L080350	EML A-01-R	Plutonium-239/240	0.005	0.015	0.015	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	EML A-01-R	Thorium-228	0.36	0.12	0.05	PCI/G	J	J01
SU2-BD124-78	F5L080350	EML A-01-R	Thorium-230	0.62	0.16	0.03	PCI/G	=	
SU2-BD124-78	F5L080350	EML A-01-R	Thorium-232	0.24	0.091	0.02	PCI/G	J	J01
SU2-BD124-78	F5L080350	GAMMA	Actinium 227	0.008	0.18	0.28	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Americium 241	0.036	0.061	0.12	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Bismuth-207	0.003	0.025	0.049	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Bismuth-210M	-0.021	0.037	0.064	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Cesium 137	-0.0001	0.035	0.073	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Cobalt 60	-0.045	0.042	0.068	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Lead 210	0.05	0.68	1.4	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Protactinium 231	-0.28	0.9	1.6	PCI/G	UJ	T06
SU2-BD124-78	F5L080350	GAMMA	Radium (226)	0.47	0.15	0.07	PCI/G	=	
SU2-BD124-78	F5L080350	GAMMA	Thorium 229	0.02	0.34	0.62	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	EML A-01-R	Plutonium-238	0.253	0.08	0.041	PCI/G	=	
SU2-BD124-79	F5L080350	EML A-01-R	Plutonium-239/240	0.003	0.019	0.037	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	EML A-01-R	Thorium-228	0.6	0.15	0.04	PCI/G	J	J01
SU2-BD124-79	F5L080350	EML A-01-R	Thorium-230	0.86	0.19	0.03	PCI/G	=	
SU2-BD124-79	F5L080350	EML A-01-R	Thorium-232	0.64	0.15	0.03	PCI/G	J	J01
SU2-BD124-79	F5L080350	GAMMA	Actinium 227	0.24	0.28	0.5	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Americium 241	-0.005	0.1	0.18	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Bismuth-207	0.013	0.048	0.096	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Bismuth-210M	-0.009	0.059	0.11	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Cesium 137	-0.039	0.064	0.11	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Cobalt 60	-0.016	0.055	0.11	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Lead 210	-0.5	1.3	2.3	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Protactinium 231	0.9	1.4	2.8	PCI/G	UJ	T06
SU2-BD124-79	F5L080350	GAMMA	Radium (226)	0.64	0.21	0.44	PCI/G	=	
SU2-BD124-79	F5L080350	GAMMA	Thorium 229	-0.15	0.59	1.1	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	EML A-01-R	Plutonium-238	0.128	0.058	0.045	PCI/G	=	
SU2-BD124-79D	F5L080350	EML A-01-R	Plutonium-239/240	-0.008	0.016	0.037	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	EML A-01-R	Thorium-228	0.61	0.15	0.04	PCI/G	J	J01
SU2-BD124-79D	F5L080350	EML A-01-R	Thorium-230	0.84	0.18	0.02	PCI/G	=	
SU2-BD124-79D	F5L080350	EML A-01-R	Thorium-232	0.56	0.14	0.03	PCI/G	J	J01
SU2-BD124-79D	F5L080350	GAMMA	Actinium 227	0.1	0.28	0.45	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Americium 241	-0.046	0.096	0.16	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Bismuth-207	0.016	0.04	0.078	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Bismuth-210M	-0.019	0.056	0.097	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Cesium 137	0.004	0.057	0.11	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Cobalt 60	0.032	0.047	0.11	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Lead 210	1.1	1.2	2.4	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Protactinium 231	0.2	1.5	2.4	PCI/G	UJ	T06
SU2-BD124-79D	F5L080350	GAMMA	Radium (226)	0.52	0.21	0.37	PCI/G	=	
SU2-BD124-79D	F5L080350	GAMMA	Thorium 229	0.23	0.5	0.93	PCI/G	UJ	T06

ATTACHMENT C

GENERAL MEDIA INFORMATION

[there was no general media information released to the public]

ATTACHMENT D

PUBLIC FACT SHEET

PUBLIC FACT SHEET

PRS 41: Area 3 Thorium Drum Storage/Redrumming Area

Background: PRS 41. Potential Release Site (PRS) 41, also known as the Area 3 Thorium Drum Storage/Redrumming area, is located on the west central portion of the site as shown on Figure 1. Process history of the PRS indicated the potential for the presence of thorium-232 from redrumming operation, & plutonium-238 from an historic waste line break that contaminated a drainage ditch within PRS 41.

Further Assessment (FA) of PRS 41 sampling was performed at PRS 41 during the later months of 2002 per the Core Team-approved Sampling & Analysis Plan (SAP). Contaminants of concern (COCs) were thorium-232 and plutonium-238.

Of the 92 samples from the PRS 41 area and the 10 samples from the PRS 41 ditch analyzed for the COCs, a total of 5 locations contained results above the cleanup objectives. Two of these results from the PRS 41 area were thorium-232 above the 2.1 pCi/g cleanup objective (max. result of 13.04 pCi/g) and 3 of the results from the PRS 41 ditch were plutonium-238 above the 55 pCi/g cleanup objective (max. result of 614 pCi/g). The results are summarized in the following table.

Analyte	Bkgd*	Maximum Concentration	Cleanup Objective**
Thorium-232+D	1.4	140	2.1
Plutonium-238	0.13	614	55

*background soil concentration **risk criteria

Based on the above results, the Core Team recommended[6] a **Removal Action (RA)** per the Contingent Action Memo[1]. RA COCs are Pu-238 & Th-232+daughter isotopes.

The review of information for PRS 63 [4] identified work within the boundary of PRS 41 needed to assure the area is protective of human health.

Background: Former Salvage Area. A former salvage area where scrap wood and metal were stored is partially within PRS 41. Two isolated locations within this salvage area were identified & removed as part of Building 124 construction activities. Maximum results for the removed soil are identified in the table below (pCi/g).

Confirmation of Salvage Area: Following demolition of Building 124, soil sampling will be performed per a Core Team-approved SAP to confirm that the historic isolated remediations met cleanup objectives. If results do not meet cleanup objectives, a soil RA and verification will be performed.

Analyte	Bkgd*	Maximum Concentration [5]	Cleanup Objective **
Thorium-232+D	1.4	140	2.1
Thorium-230+D	1.9	276	2.8
Radium-226+D	2.0	46.9	2.9
Protactinium-231+D	0.11	46.7	4.0
Lead-210+D	1.2	62.8	7.4
Actinium-227+D	0.11	80.7	4.6

*background soil concentration **risk criteria

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Action Memorandum[1].

Attachment D
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(continued on next page)

The **Work Plan** for Contingent Removal Actions, supplemented by the Unique Work Package, includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runon/runoff controls will be managed per the SWP3.

The **RA for PRS 41** will consist of excavation of contaminated soils at isolated areas (for thorium) and a short segment of the ditch (for plutonium) identified by the sample results above the cleanup objectives. The **RA for the Former Salvage Area** will be commensurate with confirmation results above cleanup objectives, if any. Post-excavation sampling will be performed within the excavations per the Core Team-approved Verification Sampling & Analysis Plan (VSAP).

Schedule. This Fact Sheet will be in public review for 30 days, ending January 4, 2004. The RA is planned to begin in winter 2004. A summary of the RA & the verification data will be included in the On-Scene Coordinator (OSC) Report. The OSC Report will be placed in the public reading room after the conclusion of the verification sampling and approval by the Core Team.

Excavation at PRS 41 of approximately 4,000 yd^3 (3,057 m^3) & verification are expected to cost less than $170,000.

Confirmation sampling at PRS 41 Salvage Area is expected to cost less than $10,000. Additional information can be found in the public reading room, or by contacting Danny Punch at 847-8350 ext. 301.

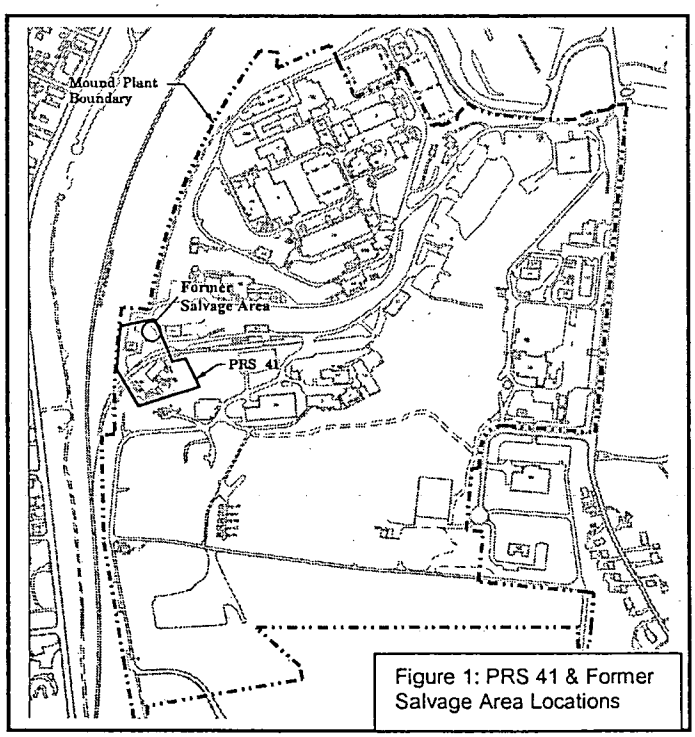

Figure 1: PRS 41 & Former Salvage Area Locations

1: Action Memorandum/Engineering Evaluation/Cost Analysis, Contingent Removal Action for Contaminated Soil, June 2002, Final
2: Standard Work Package for Contingent Removal Actions, November 2001, Final
3: Storm Water Pollution Prevention Plan
4. PRS 63 Data Package, Final, November 2003
5. Radiological Survey Data Sheet, 97-SMP-054, December 4, 1997
6. PRS 41 Data package, Final, June 2003

Attachment D
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