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PRS 11
REMOVAL ACTION
OSC REPORT

This Report Closes PRS 11

June 2006

Final

Department of Energy
Miamisburg Closure Project

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

CH2MHILL

SMO-473/06
August 2, 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 11 OSC Report, Final

Dear Mr. Pfister:

Attached is the following Final document for your records.

- PRS 11 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
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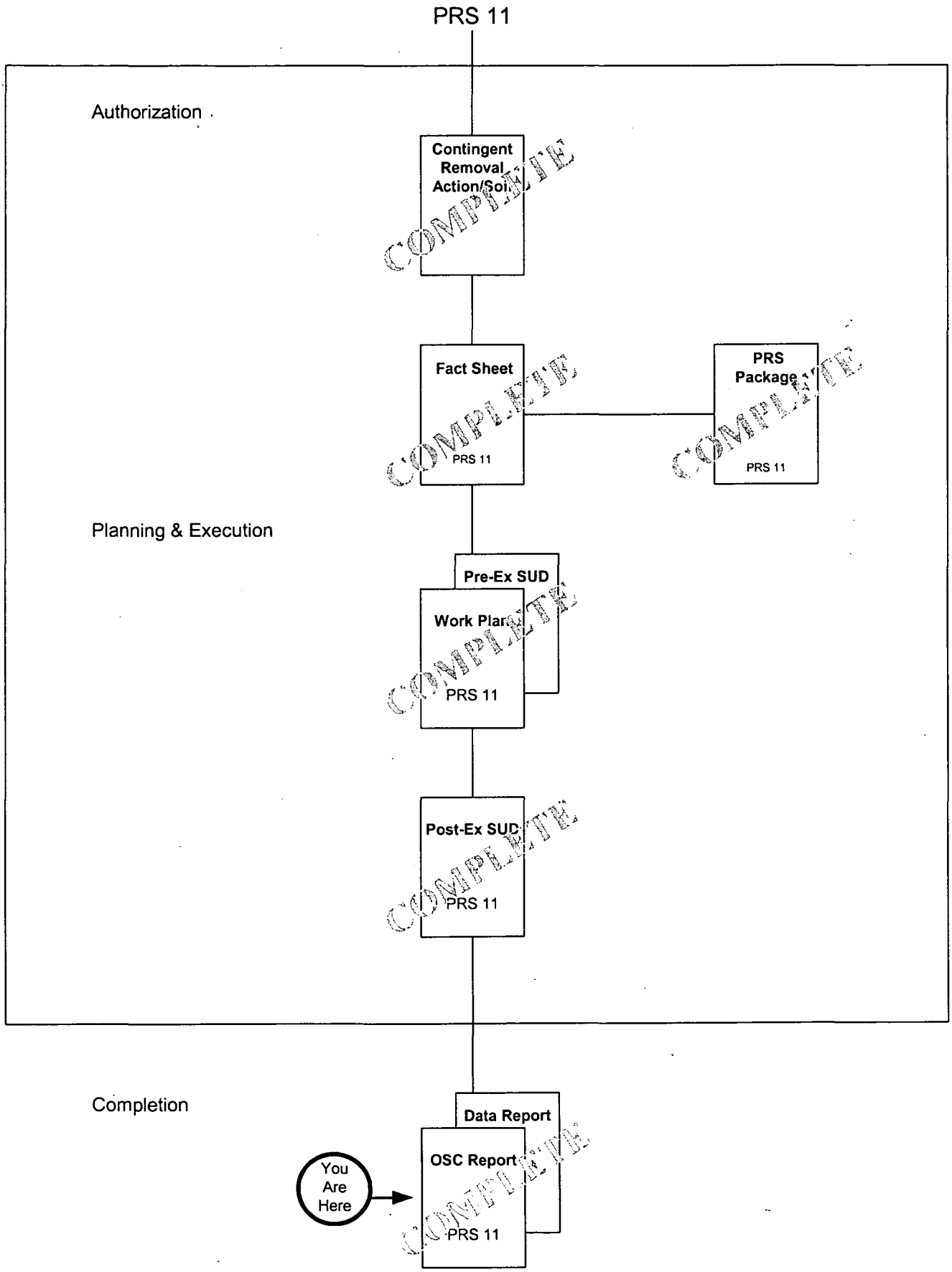
PRS 11



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Acronyms

CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
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
RASS	Remedial Action Support Survey
SUD	Survey Unit Design
UCL	upper confidence limit
USEPA	United States Environmental Protection Agency
VSAP	Verification Sampling and Analysis Plan

RECOMMENDATION: PRS 11

The PRS 11 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 for PRS 11: Thorium and Polonium-Contaminated Waste Area, Final, May 2005. The PRS 11 RA was performed as a result of historical knowledge and processes, and radiological surveys and soil sample results which showed elevated levels of Th-232. An area immediately east of PRS 11, known to contain "Dayton Unit" debris, was also characterized for radiological contamination as part of the PRS 11 RA. The scope of removal was to remove radioactive contamination associated with the crushed empty thorium drums adjacent to what is known as the "site sanitary landfill," remove contaminated materials (if present) associated with the "Dayton Unit" debris area, and document radioactive contaminants (if present) remaining in the wall adjacent to the "site sanitary landfill."

Radiologically contaminated soil at PRS 11 was excavated per the Contingent Action Memo and Standard Work Package ER/ST-04-011. Verification sampling and analysis for PRS 11 and characterization sampling for the Dayton Unit debris area was performed in accordance with the Standard VSAP, Soils Verification Sampling & Analysis Plan, Final, August 2004.

For PRS 11, the criteria for completion required that the maximum volume of radiologically contaminated soil be removed (supported by an engineering evaluation) without impacting the integrity of the adjacent landfill.

This removal action was successfully completed and resulted in the excavation (at PRS 11 only) and disposal of approximately 14,978 cubic yards (cy) of radioactively contaminated soil (for disposal at Envirocare). Radioactive contamination remains in the wall adjacent to the landfill. Other historical wastes, including but not limited to volatile organic compounds, remain in the central and northern areas of the PRS 11 excavation.

After a thorough review of this On-Scene Coordinator (OSC) Report, the Core Team agrees that the RA associated with PRS 11 and the Dayton Unit area has met the objective as described in the Public Fact Sheet, May 2005. The waste that remains will be addressed within Operable Unit 1.

Paul Lucas 6/13/06

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

Timothy J. Fischer 6/13/06

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

Brian Nickel 6/19/06

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 project.

1.1 Site Conditions and Background

Background. PRS 11. Potential Release Site (PRS) 11 is located as shown on Figure 1 (on page A8/171). PRS 11 is a site containing crushed, buried drums previously containing thorium process materials used for thorium projects in the 1960s.

Dayton Unit area. The Core Team approved an alternate approach for the Dayton Unit Historic Burial Trench (SU3) that contains buried wood ash and debris from a fire that had consumed flooring that was potentially contaminated with polonium. Due to a lack of sample data, SU3 was developed under the Pre-Excavation Survey Unit Design to obtain at depth characterization (RASS) data. The RASS data results confirmed the absence of contamination (all results were below COs) and are reported in Attachment A.

Removal Action. This OSC Report documents completion of the PRS 11 RA and characterization performed at the Dayton Unit area; both of which were authorized via the Contingent Action Memo, (Action Memorandum EE/CA, Contingent Removal Action for Contaminated Soil, Final, June 2002) and Public Fact Sheet for PRS 11: Thorium and Polonium-Contaminated Waste Area, Final, May 2005. Known radiological contamination at PRS 11 and the potential for radiological contamination at the Dayton Units area warranted a RA under CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act). PRS 11 is closed via this OSC Report.

Radiologically contaminated soil at PRS 11 was excavated per the Contingent Action Memo and Standard Work Package ER/ST-04-011. Verification sampling and analysis for PRS 11 and characterization sampling for the Dayton Unit debris area was performed in accordance with the Standard VSAP, Soils Verification Sampling & Analysis Plan [VSAP], Final, August 2004 and the Post-Excavation (Ex) Survey Unit Design (SUD). An excerpt of the associated SUD is included in Appendix C of Attachment A to this OSC Report. The Public Fact Sheet, Attachment B, identifies the criteria for completion of PRS 11. SUs 1-3 are shown on Figure 2 (A9/171). Verification and characterization sampling results are contained in Attachment A and demonstrate that PRS 11 has met the objective as described in the Public Fact Sheet, May 2005.

For PRS 11, the criteria for completion in the direction of the landfill and buffer required that the maximum volume of radiologically contaminated soil be removed (and any remaining contamination characterized) without impacting the integrity of the adjacent landfill. An independent engineering evaluation report was generated to determine options to maximize contaminant removal, without jeopardizing the integrity of the adjacent landfill, and is included in Attachment A. Recommendations from the evaluation that were made available during the excavation activities were utilized.

Moving away from the landfill, contamination was chased and the surface was verified. All results are reported in Attachment A to this OSC Report.

Since the Department of Energy (DOE) is the sole responsible party for PRS 11, 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 Action

Table 1 lists the parties responding to the removal action, 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. Remediation was not required for the Dayton Unit area. Material quantities for PRS 11 and disposition locations are presented in Table 2. The cost breakdown of the removal action is presented in Table 3.

Table 2: Materials and Disposition

Type of Material	Quantity (cy)	Disposal Method	Disposal Location
Contaminated soil/debris	14,978	Rail transport	Envirocare of Utah
Contaminated soil/debris (mixed waste)	1 drum	Truck	Envirocare of Utah

Table 3: Removal Cost

Cost Category	Cost
Planning/Fieldwork/ Restoration/grading/seeding	$ 1,094,445
Transportation/Disposal of Contaminated Soil	$ 3,568,589
Subcontractors (Verification Sampling, Analyses, & Data Validation)	$ 37,824
Closure Documentation	$50,032
Estimated Total Project Cost	**$ 4,750,890**

For PRS 11, the criteria for completion in the direction of the landfill and buffer required that the maximum volume of radiologically contaminated soil be removed (supported by an engineering evaluation) and contamination characterized without impacting the integrity of the adjacent landfill. Moving away from the landfill, contamination was chased and the surface was verified. All results are reported in Attachment A to this OSC Report.

Cleanup Objective. Contaminants of concern (COCs) and COs were originally defined in the Fact Sheet (see Attachment B). Additional COCs identified during the fieldwork were included in the Post-Ex SUD. Final COCs, COs, and Hot Spot criteria are presented in Table 4.

Table 4: Soil Cleanup Objectives (pCi/g)

COC	Cleanup Objective	Hot Spot	Location
Actinium-227 +D	4.6	13.61	PRS 11
Bismuth-210m	8.3	24.9	PRS 11 & Dayton area
Lead-210 +D	7.4	19.8	PRS 11 & Dayton area
Plutonium-238	55	165	PRS 11 (SU2 Only)
Protactinium-231	4.0	11.8	PRS 11
Radium-226 +D	2.9	4.7	PRS 11

COC	Cleanup Objective	Hot Spot	Location
Thorium-230 +D	2.8	4.6	PRS 11
Thorium-232 +D	2.1	3.5	PRS 11
Uranium-238 +D	2.2	4.2	PRS 11

+D indicates Plus Daughters

As-Left Data/Conditions. As described in the Core Team-approved Post-Ex SUD, the excavation could not remove all of the contaminated materials in the area (wall) adjacent to the landfill. A 15-foot buffer to the wall was established. Verification results within this buffer area above COs were removed from the verification data set and added to the wall as-left data set. Documentation of the as-left condition of the wall is provided in the Data Report (A97/171).

Verification results for PRS 11 are identified in the Data Report (Attachment A to this OSC Report), Tables 1 through 3 (A16/171 through A96/171). Two verification results (2.39 pCi/g and 2.57 pCi/g) at PRS 11 for Thorium-232 (Th-232) are above the CO of 2.1 pCi/g. Within the verification data set, these results met the cleanup criteria established in the Standard VSAP (see Data Report Appendix D). There were no other sample results (except Thallium-208 and Radium-224) that exceeded the CO for any analyte. Thallium-208 (Tl-208) and Radium-224 (Ra-224) 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 and Ra-224 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.

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

1.4 Chronological Narrative of the Removal Actions

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

Table 5: Chronology of RA

Timeframe	Activity
June 2002	Contingent Action Memo issued
December 2003	Fact Sheet and PRS Package recommending removal
August 2004	Standard Verification Sampling & Analysis Plan approved
February 2005	PRS 11 Work Plan and Pre-Excavation Survey Unit Design approved
May 2005	PRS 11 Public Fact Sheet final
April 2005 - October 2005	PRS 11 mobilization and contaminated soil RA activities
June-July 2005	area characterization sampling
July 2005	Engineering report
November 2005 - December 2005	PRS 11 verification sampling & analysis.
December 2005 - January 2006	Backfill and Site Restoration
February 2006	PRS 11 OSC Report prepared

2.0 EFFECTIVENESS OF THE REMOVAL ACTIONS

The PRS 11 (and area) removal action is complete. The objectives of the Public Fact Sheet, PRS 11: Thorium and Polonium-Contaminated Waste Area, Final, May 2005 described in Section 1.3 have been met. The Fact Sheet is included in Attachment D. The limits of verification are identified on Figures 2-5 (see A9/171 – A12/171). Results of verification sampling and analysis are provided in Attachment A, and photographs of the site remediation are provided in Attachment C.

2.1 Actions Taken by Mound Personnel

CH2M Hill Mound, Inc. personnel planned and performed removal action oversight, and performed monitoring, sampling and analyses, and documentation. The project met the removal action objectives (Section 1.3), as outlined in the Fact Sheet. CH2M Hill Mound, Inc. personnel prepared this OSC Report, which shows that the Removal Action objectives were achieved.

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:

- Weston Solutions Inc. (Miamisburg, Ohio) - performed safety oversight, soil sampling, data management, and review and validation report.
- Water Quality (Cincinnati, Ohio) – performed excavation.
- Envirocare (Clive, Utah) - disposal of radiologically contaminated waste.
- Bowser-Morner, Inc. (Dayton, Ohio) – generated engineering report.

3.0 DIFFICULTIES ENCOUNTERED

3.1 Items that Affect the Removal Action

Removal of overburden, to access the area of contamination to be addressed, was required as the initial phase of the RA. The overburden being removed was surveyed in place via a walkover survey with a Field Instrument for Detection of Low Energy Radiation (FIDLER) and then removed in 5-foot cuts and transported to the southwest area of the Spoils Area (also known as PRS 282) to be stockpiled for reuse later as fill for PRS 11. The overburden material was staged in discrete piles, which were FIDLER surveyed prior to grading. During this process, four piles had elevated readings that prompted further investigation/action.

On May 3, 2005, a pile with an elevated FIDLER reading was bias sampled and yielded a result of 24.9 pCi/g Th-232. The entire pile, with an additional 1 to 1.5 feet of material that was under the footprint, was removed for disposal. As-left FIDLER survey and sampling showed no remaining contamination above COs (maximum result of 0.41 pCi/g Th-232). The response to this event was to change the work plan to remove overburden in 1.5-foot cuts instead of 5-foot cuts.

On May 10, 2005, two piles exhibited elevated FIDLER readings. The first was attributed to a large granite rock with encrusted dirt. However, the entire pile, with an additional 1 to 1.5 feet of material that was under the footprint, was removed for disposal as a precautionary measure. As-left survey and sampling showed no remaining contamination above COs (maximum result of 0.49 pCi/g Th-232). The second pile, with an elevated FIDLER reading, was attributed to a piece of glass (approximately one foot below the piles surface). The glass was removed and the pile resurveyed. No elevated FIDLER readings were observed.

On May 11, 2005, a pile with an elevated FIDLER was bias sampled and yielded a result of 25.58 pCi/g Th-232. The entire pile, with an additional 1 to 1.5 feet of material that was under the footprint, was removed for disposal. As-left survey and sampling showed no remaining contamination above COs (maximum result of 0.47 pCi/g Th-232). An investigation revealed the elevated soils origin to be from soil that surrounded wells that had been installed through the thorium drum contamination layer. Subsequent to

this event, soil surrounding wells was assumed contaminated and disposed of accordingly.

Plutonium-238 (Pu-238) contamination was found on June 7, 2005 in the eastern portion of the excavation via in-process sampling results from material going to the Rail Spur (all material below 707 feet above mean sea level) for disposal. Sampling within the excavation area on June 8, 2005 revealed the contamination to be at 702.6 feet above mean sea level and that the area containing the Pu-238 contamination was discrete (estimated to be within a 12-foot diameter spherical area within a trash layer).

Subsequently, the area where the Pu-238 was discovered and the associated excavation area surrounding this location was designated as a separate survey unit (SU2). Although Pu-238 was only found in SU2, the Core Team agreed to characterize the rest of the dig footprint (SU1) for this contaminant. This was accomplished by requiring the on-site gamma spectrometry screening data, on the verification samples, to exhibit a minimum detectable activity (MDA) of less than 20 pCi/g and that no Pu-238 was to be above the CO. The aforementioned conditions were met with the exception of the MDA on one sample (SU1-PRS11-037, activity = 0.0 pCi/g with an MDA = 30.63 pCi/g), which was addressed by off site laboratory isotopic plutonium analysis (activity = 2.6 pCi/g with an MDA = 0.04 pCi/g). The results met the conditions agreed upon by the Core Team and therefore Pu-238 was determined not to be a concern in SU1. The data from this characterization is presented in a posting plot included in Appendix D as Figures 2 and 3.

Volatile organic compounds (VOCs) and mercury were encountered in June 2005 and August 2005 respectively (co-resident with radiological contamination) during the PRS 11 RA. Although it was not within the scope of the PRS 11 RA to remove VOC and mercury contamination, removal of contaminants co-resident with radiological contaminants was performed.

These removals required the construction of engineered staging areas to contain the material until further characterization could be performed for proper material disposal. These regulator-approved staging areas (approximately 30 feet by 85 feet of usable footprint) were constructed within the north central area of the Spoils Area. They consisted of earthen berms of approximately three feet in height, approximately 8 inches of sand base, a minimum of 40-mil thickness PVC liner with certified welded seams, and approximately 8 inches of sand on top of the liner material. The staged materials and staging areas were covered with tarps, extending over the berms, when not being accessed. Following characterization sampling of the staged material, removal and disposal (including removal of sand, liner, and berms) was performed followed by FIDLER walkover and soil sampling surveys to confirm the areas were not contaminated.

Various types of debris were encountered throughout the RA, ranging from general office trash, cafeteria trash, and laboratory trash (bottles and lab ware) to demolition debris (steel I-beams, wood, brick, block, glass, metal vessel with ports, and tile) and other types of debris (lead-acid battery, drums [steel, stainless, and aluminum], mercury

[in bottles and free product], stainless boxes [possibly from a laboratory decommissioning], and VOC contaminated soils). Due to the steps required to properly dispose of the debris removed, the scheduled completion date was adversely impacted.

As-left characterization was performed within PRS 11 for VOCs and mercury. Radiological characterization was performed to document the as-left condition of the landfill wall. Data from these characterization efforts were entered into the Mound Environmental Information Management System and included in Attachment A.

3.2 Issues of Intergovernmental Coordination

The Core Team approved an alternate approach for the Dayton Unit Historic Burial Trench (SU3) that contains buried wood ash and debris from a fire that had consumed flooring that was potentially contaminated with polonium. Due to a lack of sample data, SU3 was developed under the Pre-Excavation Survey Unit Design to obtain at depth characterization (RASS) data. The RASS data results confirmed the absence of contamination (all results were below COs) and are reported in Attachment A.

The Core Team approved an approach for verification results within a 15-foot buffer zone area with respect to the landfill wall, which contains residual contamination. Verification locations, within this buffer zone, with results above the COs were removed from the verification data set and added to the "as-left" landfill wall data set. The areas within the 15-foot buffer zone (which are represented by verification samples with results that exceeded COs) along with the landfill wall (containing residual contamination) are now considered part of OU1.

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 at PRS 11 and confirmed that remediation was not required for the area. 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 runon/runoff protection, spread of contamination is mitigated. Tarpaulin material was installed to segregate the contaminated surface of the landfill wall from the verified area and afford backfill.

ATTACHMENT A

DATA REPORT

PRS 11

DATA REPORT

June 2006

Rev. 1

Department of Energy
Miamisburg Closure Project

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Figure 2: Location of SUs 1-3

Figure 3: SU1 Verification Locations

Figure 4: SU2 Verification Locations

Figure 5: SU3 Characterization Locations

Figure 6: Overall Sample Frequency

Figure 7: As-Left Landfill Wall Sample Locations

Figure 8 As-Left VOC and Hg Locations

Tables

Table 1: SU1 Offsite Verification Results

Table 2: SU2 Offsite Verification Results

Table 3: SU3 Onsite Characterization Results

Table 4: As-Left Landfill Wall Results

Table 5: As-Left VOC and Metals Data

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Acronyms

CO	cleanup objective
Ex	Excavation
Hg	mercury
pCi/g	picoCuries per gram
PRS	Potential Release Site
QC	quality control
R&V	review and validation
SUD	Survey Unit Design
UCL	upper confidence limit
VOC	volatile organic compound
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 & Analysis Plan [VSAP], Final, August 2004 and the Post-Ex (Excavation) Survey Unit Design (SUD); required to close out Potential Release Site 11 (PRS 11). Three Survey Units (SUs) are included; SUs 1 and 2 at PRS 11 and SU3 at the Dayton unit area.

The purposes of this Data Report are to:

- document any variances to the VSAP/Post-Ex SUD,
- present statistical and bias data (separately),
- present summary statistics and statistical analyses [as necessary] of the applicable data, including retrospective power curve, and
- provide documentation of data review and validation.

2.0 DOCUMENT ORGANIZATION / SUMMARY

This Data Report is for the PRS 11, which is shown on Figure 1 (Appendix A). Unless otherwise specified as a variance, sampling and analyses were generally conducted in accordance with the VSAP and Post-Ex SUD. An excerpt of the Post-Ex SUD is presented in Appendix C.

3.0 FIELD ACTIVITIES

3.1 PRS 11

PRS 11 includes SUs 1 and 2, as shown on Figure 2 (Appendix A).

Verification sampling for SU1 occurred between November and December 2005. Analyses were per the Core Team-approved Post-Ex SUD, an excerpt of which is included as Appendix C. Sample locations for SU1 are shown on Figure 3 (Appendix A) and verification results are presented in Table 1. Statistical analyses for SU1 (standard deviation, power curve, and recalculation of N) are presented in the backfill package (see Appendix D). Because two results (of Th-232) are above cleanup objective (but below hot spot criteria), a 95% upper confidence limit (UCL) calculation and Sign test are also provided in the backfill package. There were no other sample results (except

Tl-208 and Ra-224) that exceeded the CO for any analyte. Tl-208 and Ra-224 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 and Ra-224 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.

Verification sampling for SU2 occurred between November and December 2005. Analyses were per the Core Team-approved Post-Ex SUD, an excerpt of which is included as Appendix C. Sample locations for SU2 are shown on Figure 4 (Appendix A) and verification results are presented in Table 2. Statistical analyses for SU2 (standard deviation, power curve, and recalculation of N) are presented in the backfill package (see Appendix D).

The Post-Ex SUD required a walkover survey for SUs 1 and 2. Elevated background readings from the adjacent landfill wall prevented performance of a useful radiological survey of the surface soil and is the reason why a systematic walkover survey was not performed. Figure 6 (Appendix A) shows the locations of the as-left, characterization, preverification, and verification samples for PRS 11. The frequency of samples illustrated in Figure 6 (Appendix A) supports that the source of the elevated background readings is the landfill and not the verified surface.

An engineering evaluation was required for PRS 11 to document the sufficiency of the excavation method and maximization of the extent excavated given the limitation of not breaching the adjacent landfill. This report is included in Appendix F.

3.2 DAYTON UNIT AREA

The Dayton unit area is SU3, which is shown on Figure 2 (Appendix A). Characterization sampling activities occurred in June and July 2005. Sample locations are shown on Figure 5 (Appendix A). The investigation was conducted in accordance with the Standard VSAP, Soils Verification Sampling & Analysis Plan, Final, August 2004 and the Post-Ex SUD. Per the Post-Ex SUD, all samples from SU3 received

onsite long count gamma spec analysis. An excerpt of the Post-Ex SUD is included in Appendix C. Results are presented in Table 3 (Appendix B). Statistical analyses and a backfill package are not required for SU3 because excavation did not occur and all results are below cleanup objective.

3.3 AS-LEFT LANDFILL AND BUFFER AREA DATA

As described in the Core Team-approved Post-Ex SUD, the excavation could not remove all of the contaminated materials in the area (wall) adjacent to the landfill. A 15-foot buffer to the wall was established. Verification results within this buffer area above COs were removed from the PRS 11 verification data set and added to the wall as-left data set. Documentation of the as-left condition of the wall is provided in Figure 7 (Appendix A) and Table 4 (Appendix B).

3.4 AS-LEFT OFFSITE VOC AND MERCURY DATA

Both volatile organic compounds (VOCs) and mercury (Hg) were found during the RA. Documentation of the as-left condition of these two areas is provided in Figure 8 (Appendix A) and Table 5 (Appendix B).

4.0 DATA REVIEW / VALIDATION

4.1 PRS 11

All data were reviewed and 10% of offsite data were validated. Field and laboratory QC (quality control) were assessed as part of the R&V process. Documentation of review and validation (and related variances) for PRS 11 is provided in Appendix E. Review and validation supports that the data are usable.

4.2 DAYTON UNIT AREA

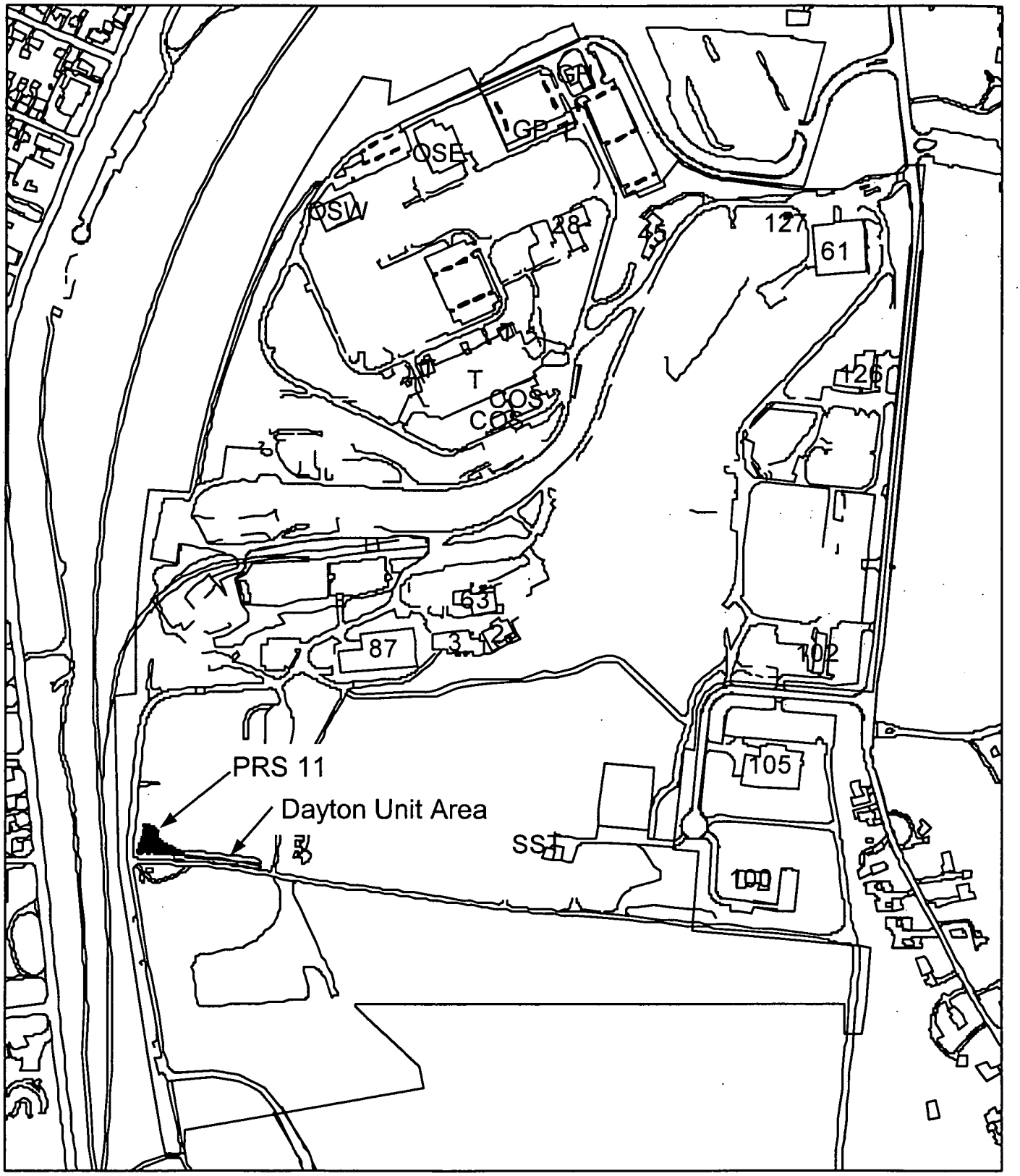
Review of the RASS data by the Core Team supports that the data are usable for characterization purposes. Although not required to be validated, per Mound Laboratory procedures, onsite laboratories are required to perform QC (quality control) checks such as instrument calibration checks, source checks, background checks, and efficiency checks.

4.3 AS-LEFT LANDFILL/BUFFER AREA AND CHEMICAL DATA

The Core Team reviewed the as-left characterization data for the landfill wall and the as-left data related to the VOC and Hg areas. Validation of these data was not required; however the data were entered into the Mound Environmental Information Management System.

APPENDIX A

FIGURES



Scale in feet

0 200400 600 8001000

N

Figure 1: Location of PRS 11 & Dayton Unit Area

1March06KMA

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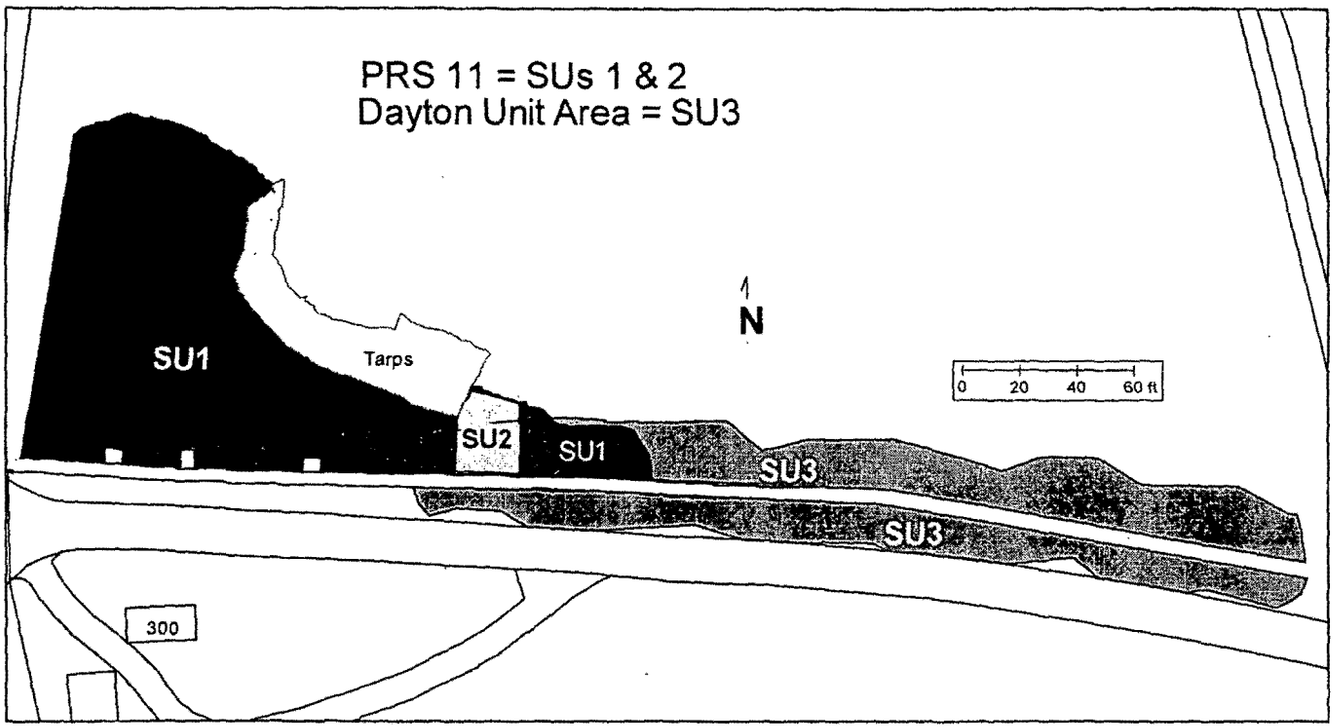

Figure 2: Location of SUs 1-3

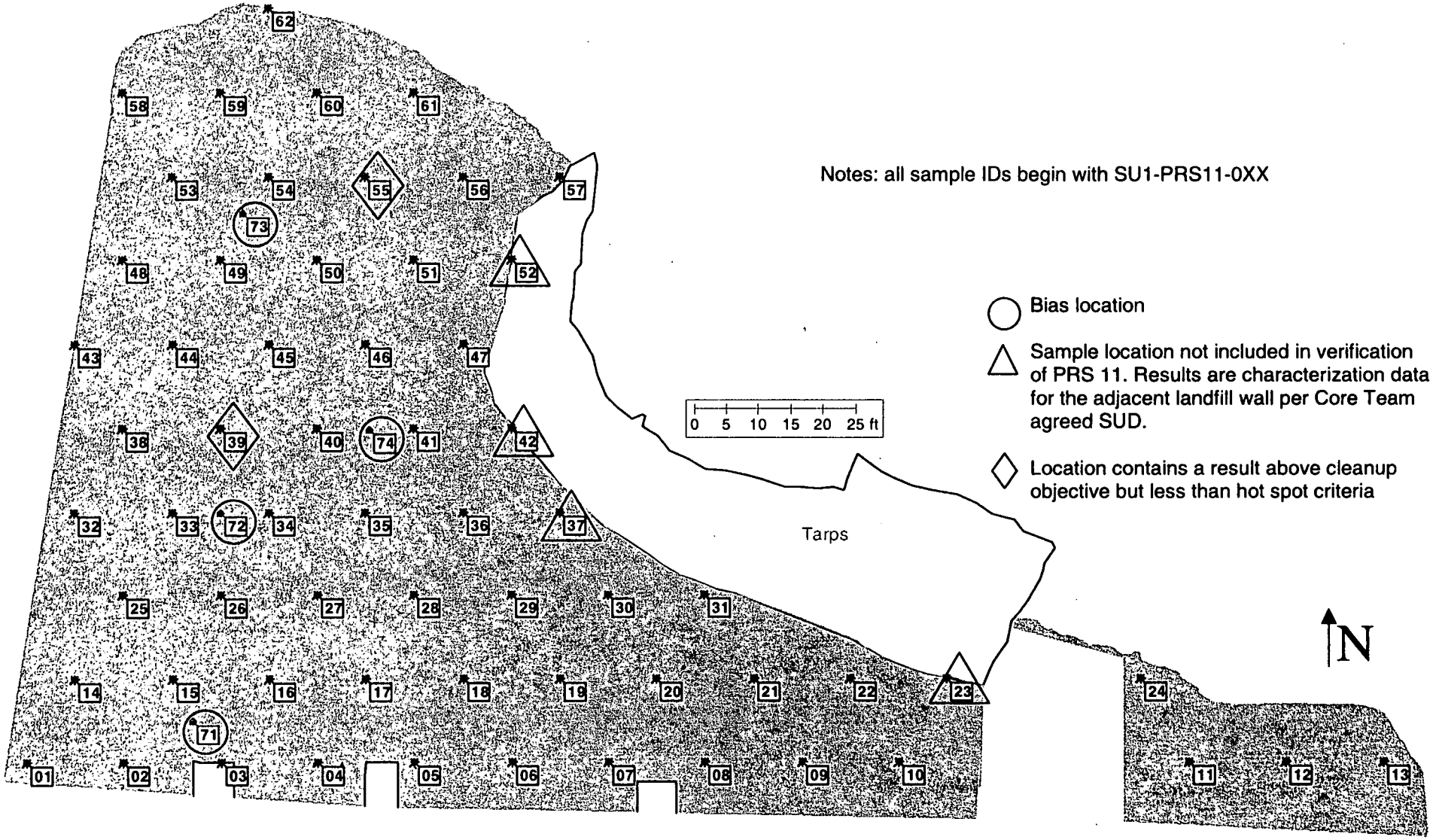

Figure 3: SU1 Verification Locations

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1March06kma

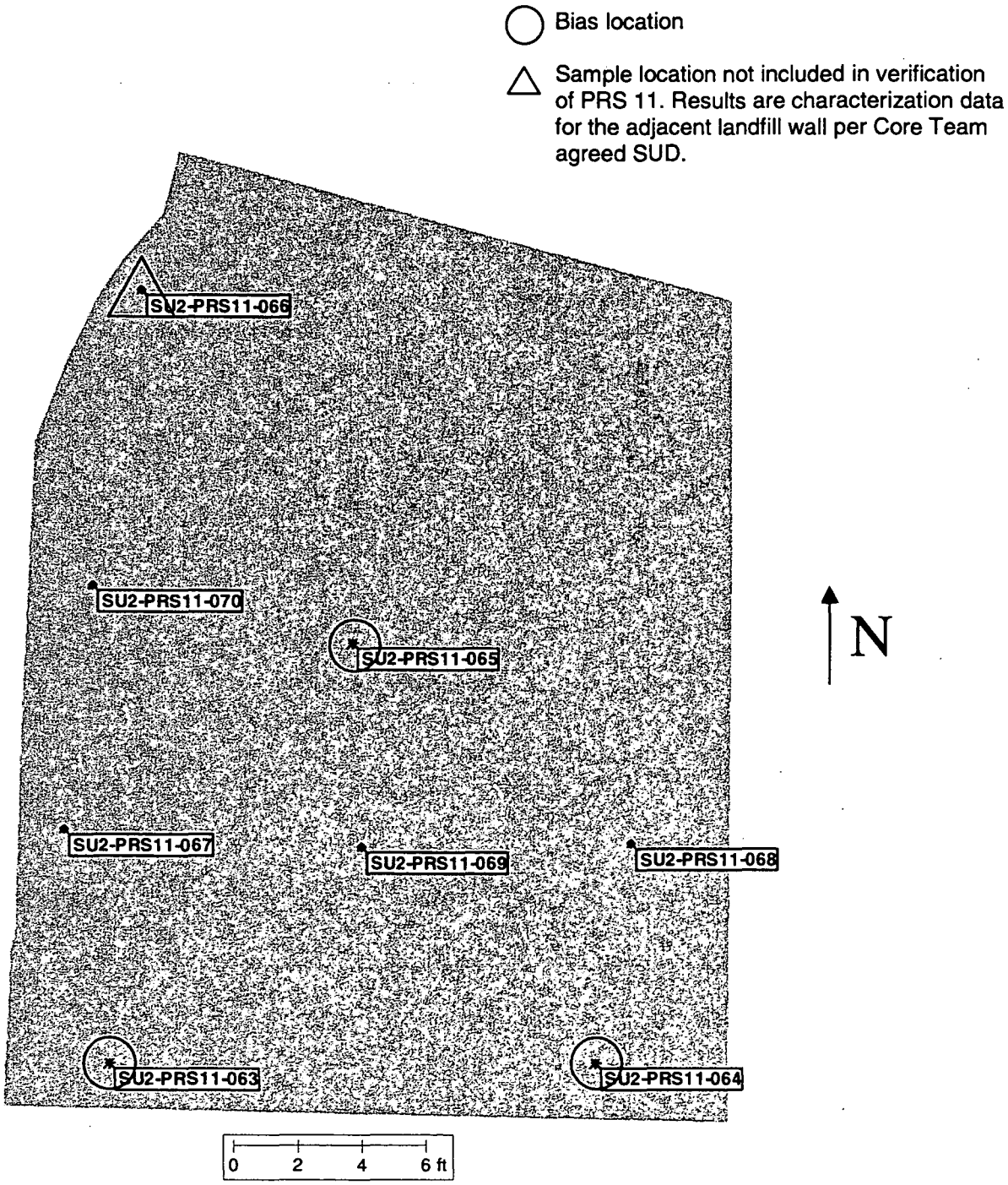
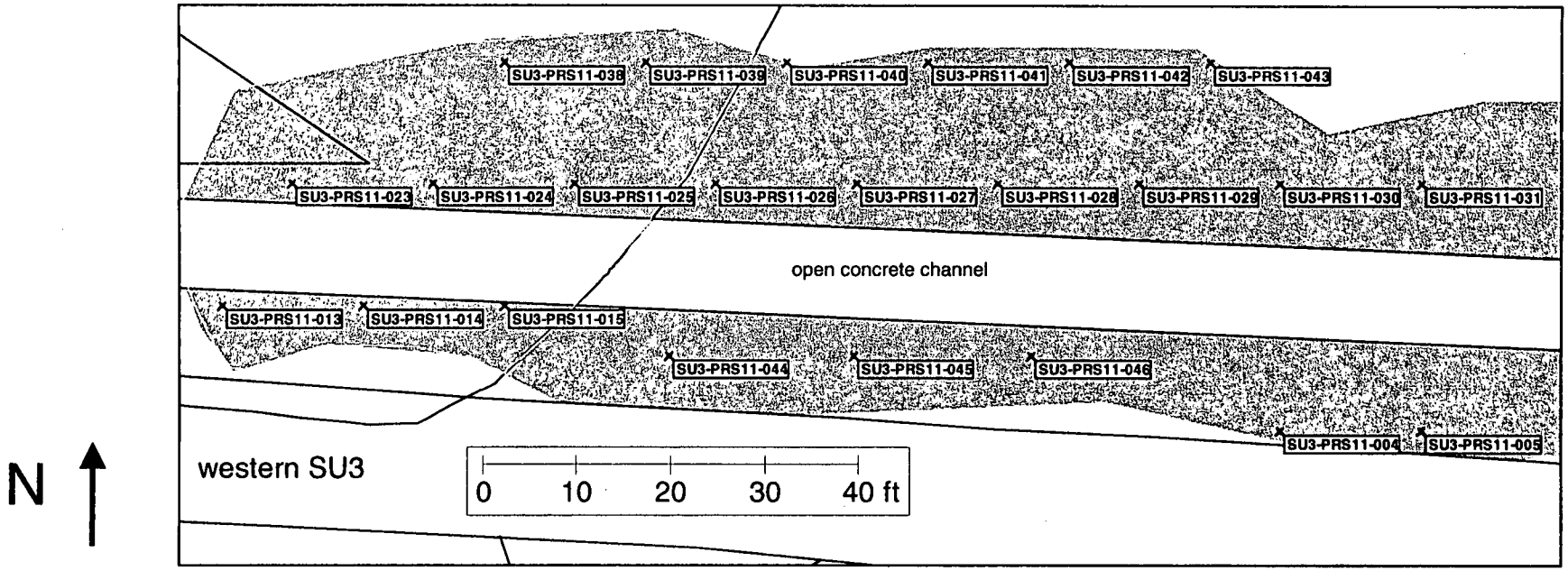


Figure 4: SU2 Verification Locations



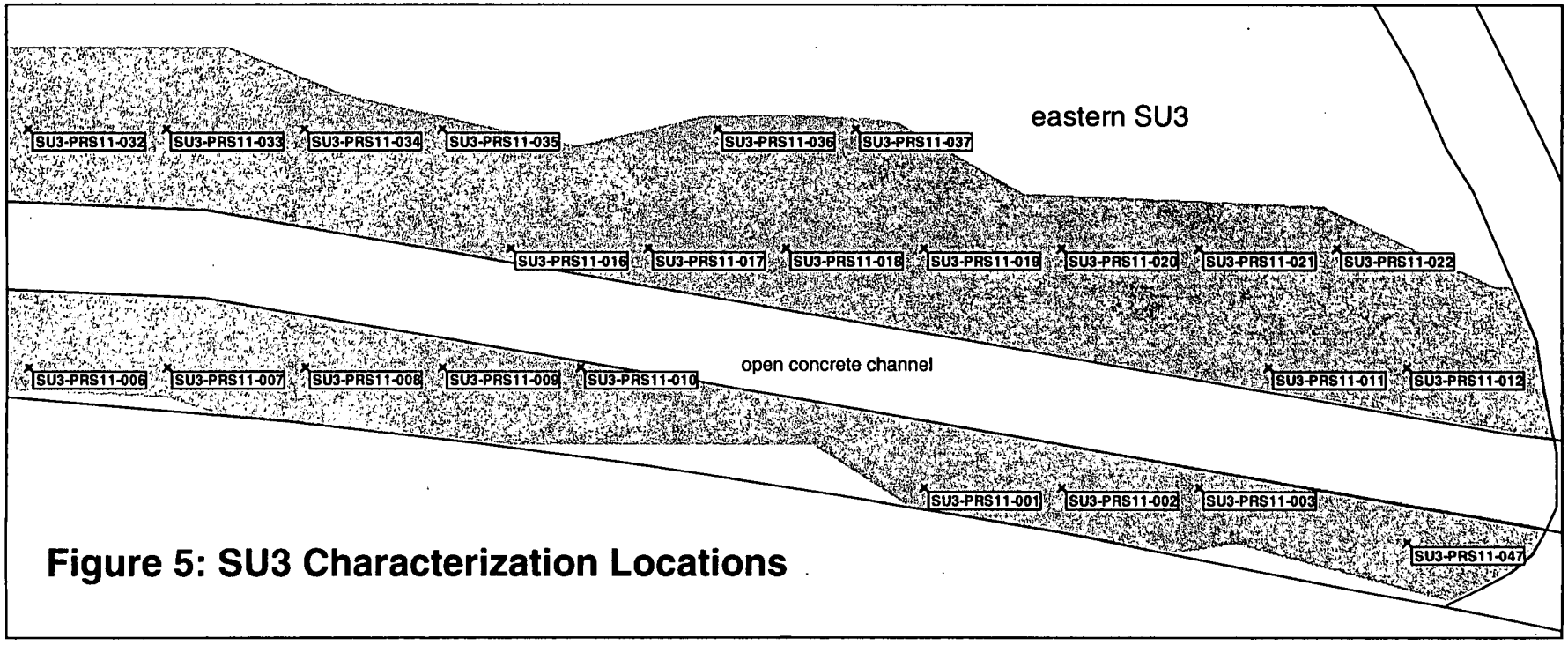


Figure 5: SU3 Characterization Locations

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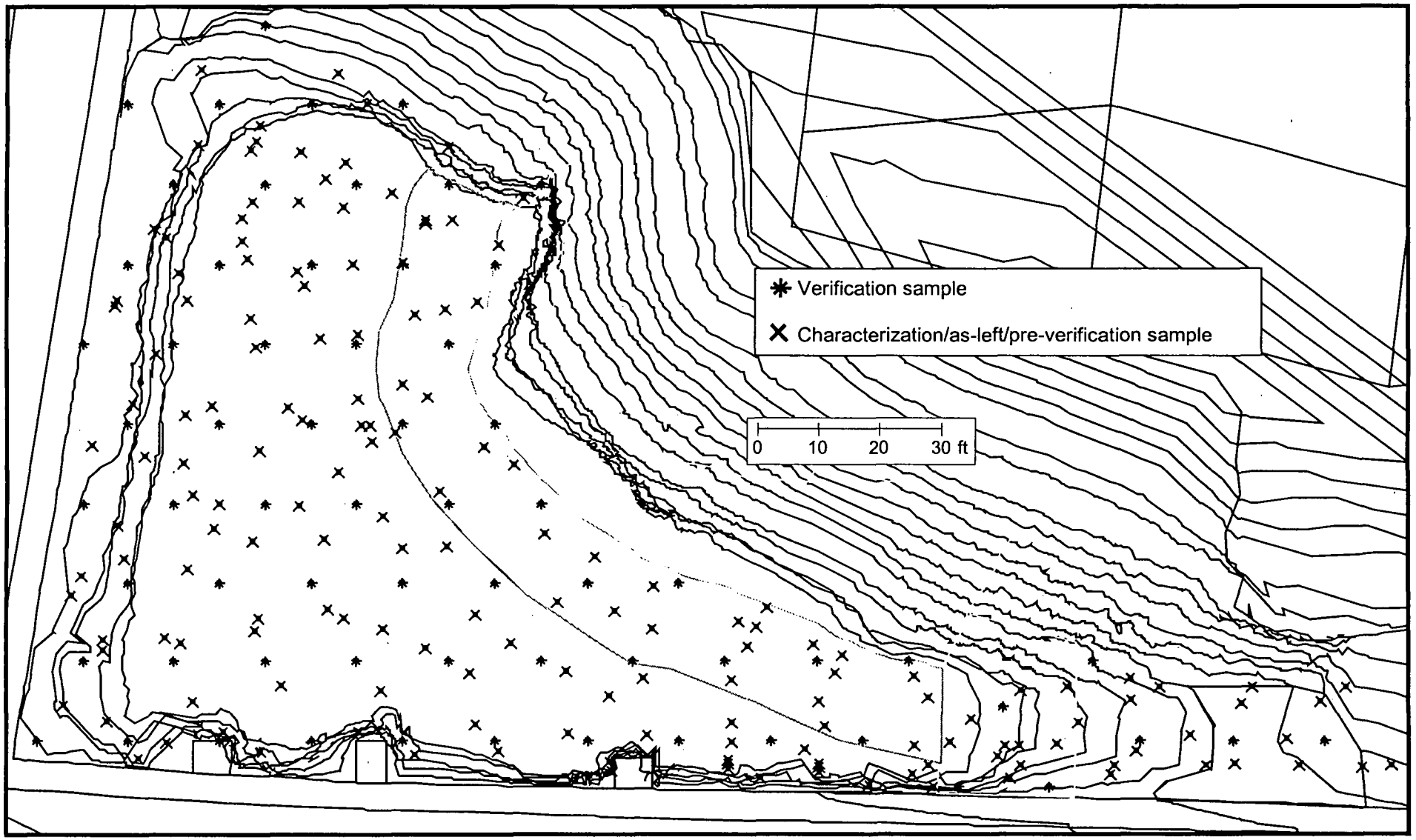

Figure 6: Overall Sample Frequency

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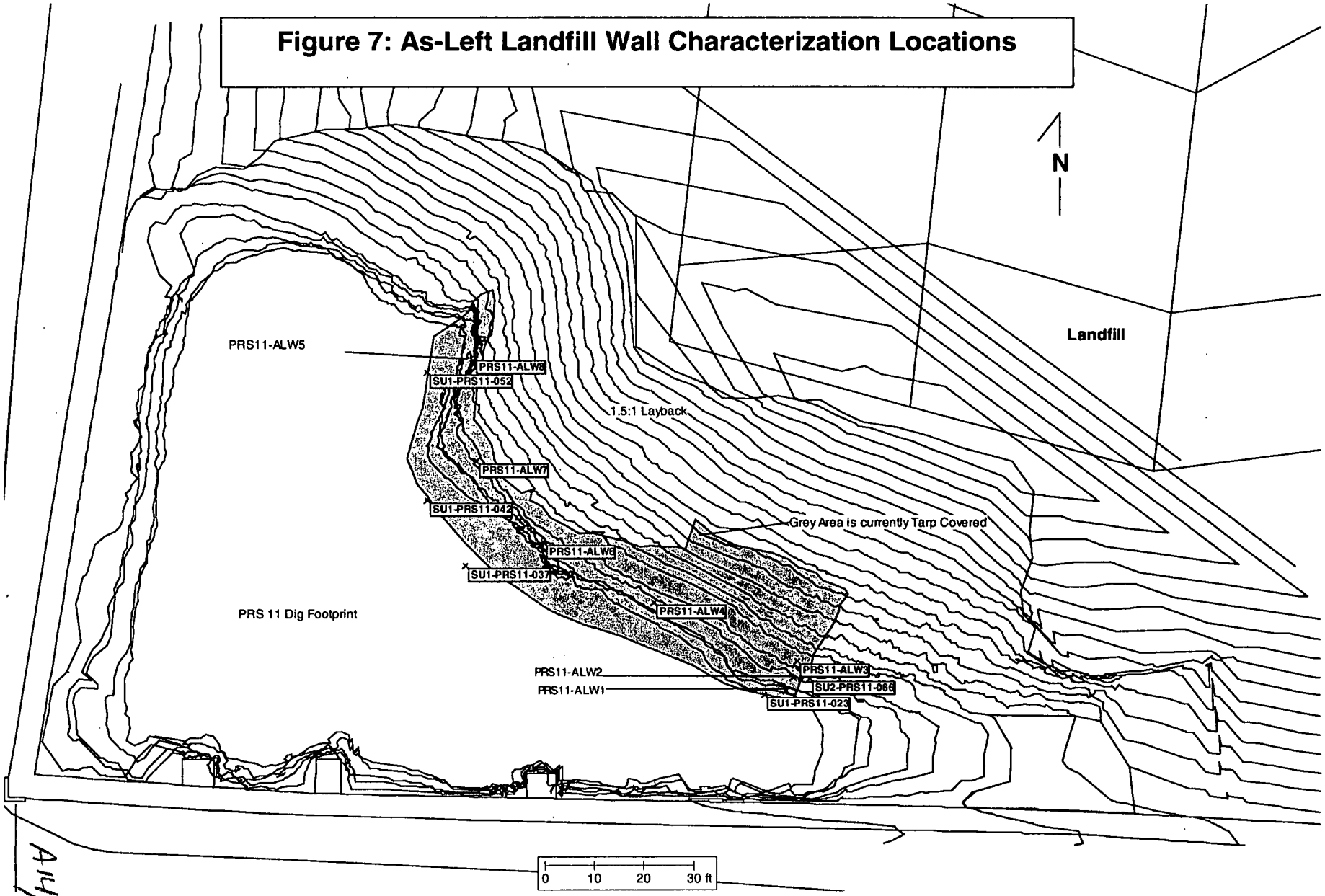
Figure 7: As-Left Landfill Wall Characterization Locations



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APPENDIX B

TABLES

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-001	20051129	Actinium-227	4.6	0.26	0.26		J	1463942.728	597019.783
SU1-11-001	20051129	Actinium-228	1.93	0.64	0.19			1463942.728	597019.783
SU1-11-001	20051129	Americium-241	63	0.095	0.095		U	1463942.728	597019.783
SU1-11-001	20051129	Bismuth-207	1.2	0.039	0.039		U	1463942.728	597019.783
SU1-11-001	20051129	Bismuth-210M	8.3	0.054	0.054		U	1463942.728	597019.783
SU1-11-001	20051129	Bismuth-214	1.17	0.65	0.1			1463942.728	597019.783
SU1-11-001	20051129	Cesium-137	3.8	0.06	0.06		U	1463942.728	597019.783
SU1-11-001	20051129	Cobalt-60	0.7	0.053	0.053		U	1463942.728	597019.783
SU1-11-001	20051129	Lead-210	7.4	0.97	0.97		U	1463942.728	597019.783
SU1-11-001	20051129	Lead-212	16.6	0.528	0.065			1463942.728	597019.783
SU1-11-001	20051129	Lead-214	8.9	0.77	0.09			1463942.728	597019.783
SU1-11-001	20051129	Potassium-40	47.8	9.5	0.4		J	1463942.728	597019.783
SU1-11-001	20051129	Protactinium-231	4	1.3	1.3		U	1463942.728	597019.783
SU1-11-001	20051129	Radium-224	2.6*	1.39	0.67	J		1463942.728	597019.783
SU1-11-001	20051129	Radium-226	2.9	0.65	0.1	J		1463942.728	597019.783
SU1-11-001	20051129	Radium-228	2.1	0.64	0.19			1463942.728	597019.783
SU1-11-001	20051129	Thallium-208	0.498**	0.139	0.047			1463942.728	597019.783
SU1-11-001	20051129	Thorium-228	2.6	0.47	0.06			1463942.728	597019.783
SU1-11-001	20051129	Thorium-230	2.8	0.76	0.03			1463942.728	597019.783
SU1-11-001	20051129	Thorium-232	2.1	0.64	0.19			1463942.728	597019.783
SU1-11-001	20051129	Thorium-232	2.1	0.42	0.03			1463942.728	597019.783
SU1-11-001	20051129	Uranium-234	2	0.476	0.027			1463942.728	597019.783
SU1-11-001	20051129	Uranium-238	3.2	0.491	0.023			1463942.728	597019.783
SU1-11-002	20051129	Actinium-227	4.6	0.33	0.33		U	1463957.728	597019.783
SU1-11-002	20051129	Actinium-228	1.93	0.56	0.21			1463957.728	597019.783
SU1-11-002	20051129	Americium-241	63	0.12	0.12		U	1463957.728	597019.783
SU1-11-002	20051129	Bismuth-207	1.2	0.046	0.046		U	1463957.728	597019.783
SU1-11-002	20051129	Bismuth-210M	8.3	0.065	0.065		U	1463957.728	597019.783
SU1-11-002	20051129	Bismuth-212	9.87	0.53	0.47			1463957.728	597019.783
SU1-11-002	20051129	Bismuth-214	1.17	1.12	0.12			1463957.728	597019.783
SU1-11-002	20051129	Cesium-137	3.8	0.061	0.061		U	1463957.728	597019.783
SU1-11-002	20051129	Cobalt-60	0.7	0.061	0.061		U	1463957.728	597019.783
SU1-11-002	20051129	Lead-210	7.4	1.6	1.6		U	1463957.728	597019.783
SU1-11-002	20051129	Lead-212	16.6	0.84	0.09			1463957.728	597019.783
SU1-11-002	20051129	Lead-214	8.9	1.13	0.12			1463957.728	597019.783
SU1-11-002	20051129	Potassium-40	47.8	16.8	0.6			1463957.728	597019.783
SU1-11-002	20051129	Protactinium-231	4	1.7	1.7		U	1463957.728	597019.783
SU1-11-002	20051129	Radium-224	2.6*	2.6	0.9			1463957.728	597019.783
SU1-11-002	20051129	Radium-226	2.9	1.12	0.12			1463957.728	597019.783
SU1-11-002	20051129	Radium-228	2.1	0.56	0.21			1463957.728	597019.783
SU1-11-002	20051129	Thallium-208	0.498**	0.264	0.066			1463957.728	597019.783
SU1-11-002	20051129	Thorium-228	2.6	0.79	0.03			1463957.728	597019.783
SU1-11-002	20051129	Thorium-230	2.8	1.72	0.02			1463957.728	597019.783
SU1-11-002	20051129	Thorium-232	2.1	0.56	0.21			1463957.728	597019.783
SU1-11-002	20051129	Thorium-232	2.1	0.81	0.02			1463957.728	597019.783
SU1-11-002	20051129	Uranium-234	2	0.65	0.02			1463957.728	597019.783
SU1-11-002	20051129	Uranium-238	3.2	0.7	0.02			1463957.728	597019.783
SU1-11-003	20051201	Actinium-227	4.6	0.23	0.23		U	1463972.728	597019.783
SU1-11-003	20051201	Actinium-228	1.93	0.51	0.15			1463972.728	597019.783
SU1-11-003	20051201	Americium-241	63	0.085	0.085		U	1463972.728	597019.783
SU1-11-003	20051201	Beryllium-7	41.1	0.35	0.35		U	1463972.728	597019.783
SU1-11-003	20051201	Bismuth-207	1.2	0.039	0.039		U	1463972.728	597019.783
SU1-11-003	20051201	Bismuth-210M	8.3	0.048	0.048		U	1463972.728	597019.783
SU1-11-003	20051201	Bismuth-214	1.17	0.74	0.08			1463972.728	597019.783
SU1-11-003	20051201	Cesium-137	3.8	0.054	0.054		U	1463972.728	597019.783
SU1-11-003	20051201	Cobalt-60	0.7	0.055	0.055		U	1463972.728	597019.783
SU1-11-003	20051201	Lead-210	7.4	1.1	1.1		U	1463972.728	597019.783
SU1-11-003	20051201	Lead-212	16.6	0.55	0.058			1463972.728	597019.783
SU1-11-003	20051201	Lead-214	8.9	0.68	0.08			1463972.728	597019.783

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-003	20051201	Potassium-40	47.8	11.6	0.4			1463972.728	597019.783
SU1-11-003	20051201	Protactinium-231	4	1.2	1.2		U	1463972.728	597019.783
SU1-11-003	20051201	Radium-224	2.6*	1.18	0.61			1463972.728	597019.783
SU1-11-003	20051201	Radium-226	2.9	0.74	0.08			1463972.728	597019.783
SU1-11-003	20051201	Radium-228	2.1	0.51	0.15			1463972.728	597019.783
SU1-11-003	20051201	Thallium-208	0.498**	0.168	0.041			1463972.728	597019.783
SU1-11-003	20051201	Thorium-228	2.6	0.59	0.03			1463972.728	597019.783
SU1-11-003	20051201	Thorium-230	2.8	0.97	0.01			1463972.728	597019.783
SU1-11-003	20051201	Thorium-232	2.1	0.73	0.02			1463972.728	597019.783
SU1-11-003	20051201	Thorium-232	2.1	0.51	0.15			1463972.728	597019.783
SU1-11-003	20051201	Uranium-234	2	0.73	0.03			1463972.728	597019.783
SU1-11-003	20051201	Uranium-238	3.2	0.78	0.02			1463972.728	597019.783
SU1-11-004	20051130	Actinium-227	4.6	0.24	0.24		U	1463987.728	597019.783
SU1-11-004	20051130	Actinium-228	1.93	0.3	0.14			1463987.728	597019.783
SU1-11-004	20051130	Americium-241	63	0.085	0.085		U	1463987.728	597019.783
SU1-11-004	20051130	Bismuth-207	1.2	0.036	0.036		U	1463987.728	597019.783
SU1-11-004	20051130	Bismuth-210M	8.3	0.052	0.052		U	1463987.728	597019.783
SU1-11-004	20051130	Bismuth-214	1.17	0.6	0.08			1463987.728	597019.783
SU1-11-004	20051130	Cesium-137	3.8	0.039	0.039		U	1463987.728	597019.783
SU1-11-004	20051130	Cobalt-60	0.7	0.046	0.046		U	1463987.728	597019.783
SU1-11-004	20051130	Lead-210	7.4	1.1	1.1		U	1463987.728	597019.783
SU1-11-004	20051130	Lead-212	16.6	0.294	0.056			1463987.728	597019.783
SU1-11-004	20051130	Lead-214	8.9	0.6	0.07			1463987.728	597019.783
SU1-11-004	20051130	Potassium-40	47.8	7.8	0.5		J	1463987.728	597019.783
SU1-11-004	20051130	Protactinium-231	4	1.2	1.2		U	1463987.728	597019.783
SU1-11-004	20051130	Radium-224	2.6*	1.38	0.6			1463987.728	597019.783
SU1-11-004	20051130	Radium-226	2.9	0.6	0.08			1463987.728	597019.783
SU1-11-004	20051130	Radium-228	2.1	0.3	0.14			1463987.728	597019.783
SU1-11-004	20051130	Thallium-208	0.498**	0.11	0.041			1463987.728	597019.783
SU1-11-004	20051130	Thorium-228	2.6	0.344	0.036			1463987.728	597019.783
SU1-11-004	20051130	Thorium-230	2.8	0.78	0.03			1463987.728	597019.783
SU1-11-004	20051130	Thorium-232	2.1	0.3	0.14			1463987.728	597019.783
SU1-11-004	20051130	Thorium-232	2.1	0.317	0.029			1463987.728	597019.783
SU1-11-004	20051130	Uranium-234	2	0.48	0.02			1463987.728	597019.783
SU1-11-004	20051130	Uranium-238	3.2	0.58	0.01			1463987.728	597019.783
SU1-11-005	20051130	Actinium-227	4.6	0.16	0.16		U	1464002.728	597019.783
SU1-11-005	20051130	Actinium-228	1.93	0.25	0.14			1464002.728	597019.783
SU1-11-005	20051130	Americium-241	63	0.066	0.066		U	1464002.728	597019.783
SU1-11-005	20051130	Bismuth-207	1.2	0.03	0.03		U	1464002.728	597019.783
SU1-11-005	20051130	Bismuth-210M	8.3	0.038	0.038		U	1464002.728	597019.783
SU1-11-005	20051130	Bismuth-214	1.17	0.56	0.06			1464002.728	597019.783
SU1-11-005	20051130	Cesium-137	3.8	0.043	0.043		U	1464002.728	597019.783
SU1-11-005	20051130	Cobalt-60	0.7	0.045	0.045		U	1464002.728	597019.783
SU1-11-005	20051130	Lead-210	7.4	0.88	0.88		U	1464002.728	597019.783
SU1-11-005	20051130	Lead-212	16.6	0.241	0.047			1464002.728	597019.783
SU1-11-005	20051130	Lead-214	8.9	0.496	0.062			1464002.728	597019.783
SU1-11-005	20051130	Potassium-40	47.8	6.9	0.2		J	1464002.728	597019.783
SU1-11-005	20051130	Protactinium-231	4	0.93	0.93		U	1464002.728	597019.783
SU1-11-005	20051130	Radium-224	2.6*	1.09	0.71			1464002.728	597019.783
SU1-11-005	20051130	Radium-226	2.9	0.56	0.06			1464002.728	597019.783
SU1-11-005	20051130	Radium-228	2.1	0.25	0.14			1464002.728	597019.783
SU1-11-005	20051130	Thallium-208	0.498**	0.086	0.035			1464002.728	597019.783
SU1-11-005	20051130	Thorium-228	2.6	0.275	0.039			1464002.728	597019.783
SU1-11-005	20051130	Thorium-230	2.8	0.85	0.02			1464002.728	597019.783
SU1-11-005	20051130	Thorium-232	2.1	0.25	0.14			1464002.728	597019.783
SU1-11-005	20051130	Thorium-232	2.1	0.135	0.035			1464002.728	597019.783
SU1-11-005	20051130	Uranium-234	2	0.391	0.013			1464002.728	597019.783
SU1-11-005	20051130	Uranium-238	3.2	0.417	0.02			1464002.728	597019.783
SU1-11-006	20051130	Actinium-227	4.6	0.28	0.28		U	1464017.728	597019.783

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-006	20051130	Actinium-228	1.93	1.04	0.21			1464017.728	597019.783
SU1-11-006	20051130	Americium-241	63	0.11	0.11		U	1464017.728	597019.783
SU1-11-006	20051130	Beryllium-7	41.1	0.4	0.4		U	1464017.728	597019.783
SU1-11-006	20051130	Bismuth-207	1.2	0.047	0.047		U	1464017.728	597019.783
SU1-11-006	20051130	Bismuth-210M	8.3	0.061	0.061		U	1464017.728	597019.783
SU1-11-006	20051130	Bismuth-212	9.87	0.6	0.43			1464017.728	597019.783
SU1-11-006	20051130	Bismuth-214	1.17	0.94	0.12			1464017.728	597019.783
SU1-11-006	20051130	Cesium-137	3.8	0.064	0.064		U	1464017.728	597019.783
SU1-11-006	20051130	Cobalt-60	0.7	0.075	0.075		U	1464017.728	597019.783
SU1-11-006	20051130	Lead-210	7.4	1.4	1.4		U	1464017.728	597019.783
SU1-11-006	20051130	Lead-212	16.6	0.93	0.08			1464017.728	597019.783
SU1-11-006	20051130	Lead-214	8.9	1.01	0.09			1464017.728	597019.783
SU1-11-006	20051130	Potassium-40	47.8	18.4	0.6			1464017.728	597019.783
SU1-11-006	20051130	Protactinium-231	4	1.82	1.8			1464017.728	597019.783
SU1-11-006	20051130	Radium-224	2.6*	2.1	0.8			1464017.728	597019.783
SU1-11-006	20051130	Radium-226	2.9	0.94	0.12			1464017.728	597019.783
SU1-11-006	20051130	Radium-228	2.1	1.04	0.21			1464017.728	597019.783
SU1-11-006	20051130	Thallium-208	0.498**	0.297	0.06			1464017.728	597019.783
SU1-11-006	20051130	Thorium-228	2.6	1.23	0.05			1464017.728	597019.783
SU1-11-006	20051130	Thorium-230	2.8	1.69	0.03			1464017.728	597019.783
SU1-11-006	20051130	Thorium-232	2.1	1.04	0.21			1464017.728	597019.783
SU1-11-006	20051130	Thorium-232	2.1	0.98	0.03			1464017.728	597019.783
SU1-11-006	20051130	Thorium-234	176	1.2	0.99			1464017.728	597019.783
SU1-11-006	20051130	Uranium-234	2	0.99	0.04			1464017.728	597019.783
SU1-11-006	20051130	Uranium-238	3.2	0.85	0.03			1464017.728	597019.783
SU1-11-006	20051130	Uranium-238	3.2	1.2	0.99			1464017.728	597019.783
SU1-11-007	20051201	Actinium-227	4.6	0.21	0.21		U	1464032.728	597019.783
SU1-11-007	20051201	Actinium-228	1.93	0.42	0.13			1464032.728	597019.783
SU1-11-007	20051201	Americium-241	63	0.083	0.083		U	1464032.728	597019.783
SU1-11-007	20051201	Beryllium-7	41.1	0.31	0.31		U	1464032.728	597019.783
SU1-11-007	20051201	Bismuth-207	1.2	0.035	0.035		U	1464032.728	597019.783
SU1-11-007	20051201	Bismuth-210M	8.3	0.047	0.047		U	1464032.728	597019.783
SU1-11-007	20051201	Bismuth-212	9.87	0.4	0.24			1464032.728	597019.783
SU1-11-007	20051201	Bismuth-214	1.17	0.82	0.08			1464032.728	597019.783
SU1-11-007	20051201	Cesium-137	3.8	0.06	0.06		U	1464032.728	597019.783
SU1-11-007	20051201	Cobalt-60	0.7	0.061	0.061		U	1464032.728	597019.783
SU1-11-007	20051201	Lead-210	7.4	1	1		U	1464032.728	597019.783
SU1-11-007	20051201	Lead-212	16.6	0.504	0.058			1464032.728	597019.783
SU1-11-007	20051201	Lead-214	8.9	0.78	0.08			1464032.728	597019.783
SU1-11-007	20051201	Potassium-40	47.8	11.9	0.4			1464032.728	597019.783
SU1-11-007	20051201	Protactinium-231	4	1.1	1.1		U	1464032.728	597019.783
SU1-11-007	20051201	Radium-224	2.6*	1.9	0.9			1464032.728	597019.783
SU1-11-007	20051201	Radium-226	2.9	0.82	0.08			1464032.728	597019.783
SU1-11-007	20051201	Radium-228	2.1	0.42	0.13			1464032.728	597019.783
SU1-11-007	20051201	Thallium-208	0.498**	0.196	0.045			1464032.728	597019.783
SU1-11-007	20051201	Thorium-228	2.6	0.55	0.03			1464032.728	597019.783
SU1-11-007	20051201	Thorium-230	2.8	1.11	0.01			1464032.728	597019.783
SU1-11-007	20051201	Thorium-232	2.1	0.42	0.13			1464032.728	597019.783
SU1-11-007	20051201	Thorium-232	2.1	0.63	0.02			1464032.728	597019.783
SU1-11-007	20051201	Thorium-234	176	1.16	0.71			1464032.728	597019.783
SU1-11-007	20051201	Uranium-234	2	0.74	0.01			1464032.728	597019.783
SU1-11-007	20051201	Uranium-238	3.2	1.16	0.71			1464032.728	597019.783
SU1-11-007	20051201	Uranium-238	3.2	0.79	0.01			1464032.728	597019.783
SU1-11-008	20051130	Actinium-227	4.6	0.29	0.29		U	1464047.728	597019.783
SU1-11-008	20051130	Actinium-228	1.93	0.29	0.17			1464047.728	597019.783
SU1-11-008	20051130	Americium-241	63	0.11	0.11		U	1464047.728	597019.783
SU1-11-008	20051130	Beryllium-7	41.1	0.38	0.38		U	1464047.728	597019.783
SU1-11-008	20051130	Bismuth-207	1.2	0.049	0.049		U	1464047.728	597019.783
SU1-11-008	20051130	Bismuth-210M	8.3	0.062	0.062		U	1464047.728	597019.783

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-008	20051130	Bismuth-214	1.17	0.61	0.14			1464047.728	597019.783
SU1-11-008	20051130	Cesium-137	3.8	0.043	0.043		U	1464047.728	597019.783
SU1-11-008	20051130	Cobalt-60	0.7	0.054	0.054		U	1464047.728	597019.783
SU1-11-008	20051130	Lead-210	7.4	1.3	1.3		U	1464047.728	597019.783
SU1-11-008	20051130	Lead-212	16.6	0.211	0.067			1464047.728	597019.783
SU1-11-008	20051130	Lead-214	8.9	0.54	0.1			1464047.728	597019.783
SU1-11-008	20051130	Potassium-40	47.8	6.3	0.5		J	1464047.728	597019.783
SU1-11-008	20051130	Protactinium-231	4	1.6	1.6		U	1464047.728	597019.783
SU1-11-008	20051130	Radium-224	2.6*	1.6	1.2			1464047.728	597019.783
SU1-11-008	20051130	Radium-226	2.9	0.61	0.14			1464047.728	597019.783
SU1-11-008	20051130	Radium-228	2.1	0.29	0.17			1464047.728	597019.783
SU1-11-008	20051130	Thallium-208	0.498**	0.109	0.05			1464047.728	597019.783
SU1-11-008	20051130	Thorium-228	2.6	0.37	0.05			1464047.728	597019.783
SU1-11-008	20051130	Thorium-230	2.8	0.77	0.04			1464047.728	597019.783
SU1-11-008	20051130	Thorium-232	2.1	0.35	0.03			1464047.728	597019.783
SU1-11-008	20051130	Thorium-232	2.1	0.29	0.17			1464047.728	597019.783
SU1-11-008	20051130	Uranium-234	2	0.56	0.03			1464047.728	597019.783
SU1-11-008	20051130	Uranium-238	3.2	0.68	0.03			1464047.728	597019.783
SU1-11-009	20051130	Actinium-227	4.6	0.31	0.31		U	1464062.728	597019.783
SU1-11-009	20051130	Americium-241	63	0.11	0.11		U	1464062.728	597019.783
SU1-11-009	20051130	Beryllium-7	41.1	0.4	0.4		U	1464062.728	597019.783
SU1-11-009	20051130	Bismuth-207	1.2	0.051	0.051		U	1464062.728	597019.783
SU1-11-009	20051130	Bismuth-210M	8.3	0.075	0.075		U	1464062.728	597019.783
SU1-11-009	20051130	Bismuth-214	1.17	0.49	0.1			1464062.728	597019.783
SU1-11-009	20051130	Cesium-137	3.8	0.055	0.055		U	1464062.728	597019.783
SU1-11-009	20051130	Cobalt-60	0.7	0.082	0.082		U	1464062.728	597019.783
SU1-11-009	20051130	Lead-210	7.4	1.6	1.6		U	1464062.728	597019.783
SU1-11-009	20051130	Lead-212	16.6	0.338	0.079			1464062.728	597019.783
SU1-11-009	20051130	Lead-214	8.9	0.65	0.09			1464062.728	597019.783
SU1-11-009	20051130	Potassium-40	47.8	7.6	0.6		J	1464062.728	597019.783
SU1-11-009	20051130	Protactinium-231	4	1.8	1.8		U	1464062.728	597019.783
SU1-11-009	20051130	Radium-224	2.6*	1.41	1.2			1464062.728	597019.783
SU1-11-009	20051130	Radium-226	2.9	0.49	0.1			1464062.728	597019.783
SU1-11-009	20051130	Thallium-208	0.498**	0.096	0.061			1464062.728	597019.783
SU1-11-009	20051130	Thorium-228	2.6	0.35	0.04			1464062.728	597019.783
SU1-11-009	20051130	Thorium-230	2.8	0.69	0.03			1464062.728	597019.783
SU1-11-009	20051130	Thorium-232	2.1	0.36	0.02			1464062.728	597019.783
SU1-11-009	20051130	Uranium-234	2	0.53	0.03			1464062.728	597019.783
SU1-11-009	20051130	Uranium-238	3.2	0.65	0.02			1464062.728	597019.783
SU1-11-010	20051130	Actinium-227	4.6	0.33	0.33		U	1464077.728	597019.783
SU1-11-010	20051130	Actinium-228	1.93	2.94	0.22			1464077.728	597019.783
SU1-11-010	20051130	Americium-241	63	0.13	0.13		U	1464077.728	597019.783
SU1-11-010	20051130	Beryllium-7	41.1	0.47	0.47		U	1464077.728	597019.783
SU1-11-010	20051130	Bismuth-207	1.2	0.057	0.057		U	1464077.728	597019.783
SU1-11-010	20051130	Bismuth-210M	8.3	0.073	0.073		U	1464077.728	597019.783
SU1-11-010	20051130	Bismuth-212	9.87	1.27	0.44			1464077.728	597019.783
SU1-11-010	20051130	Bismuth-214	1.17	1.04	0.11			1464077.728	597019.783
SU1-11-010	20051130	Cesium-137	3.8	0.07	0.07		U	1464077.728	597019.783
SU1-11-010	20051130	Cobalt-60	0.7	0.064	0.064		U	1464077.728	597019.783
SU1-11-010	20051130	Lead-210	7.4	1.6	1.6		U	1464077.728	597019.783
SU1-11-010	20051130	Lead-212	16.6	1.94	0.09			1464077.728	597019.783
SU1-11-010	20051130	Lead-214	8.9	0.86	0.12			1464077.728	597019.783
SU1-11-010	20051130	Potassium-40	47.8	14.1	0.6			1464077.728	597019.783
SU1-11-010	20051130	Protactinium-231	4	2	2		U	1464077.728	597019.783
SU1-11-010	20051130	Radium-224	2.6*	2.8	0.9	J		1464077.728	597019.783
SU1-11-010	20051130	Radium-226	2.9	1.04	0.11	J		1464077.728	597019.783
SU1-11-010	20051130	Radium-228	2.1	2.94	0.22			1464077.728	597019.783
SU1-11-010	20051130	Thallium-208	0.498**	0.72	0.06			1464077.728	597019.783
SU1-11-010	20051130	Thorium-228	2.6	1.43	0.03			1464077.728	597019.783

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-010	20051130	Thorium-230	2.8	1.18	0.03	J		1464077.728	597019.783
SU1-11-010	20051130	Thorium-232	2.1	1.2	0.03			1464077.728	597019.783
SU1-11-010	20051130	Thorium-232	2.1	2.94	0.22			1464077.728	597019.783
SU1-11-010	20051130	Uranium-234	2	0.86	0.03			1464077.728	597019.783
SU1-11-010	20051130	Uranium-238	3.2	1	0.01			1464077.728	597019.783
SU1-11-011	20051201	Actinium-227	4.6	0.27	0.27		U	1464122.728	597019.783
SU1-11-011	20051201	Actinium-228	1.93	0.63	0.2			1464122.728	597019.783
SU1-11-011	20051201	Americium-241	63	0.11	0.11		U	1464122.728	597019.783
SU1-11-011	20051201	Beryllium-7	41.1	0.41	0.41		U	1464122.728	597019.783
SU1-11-011	20051201	Bismuth-207	1.2	0.044	0.044		U	1464122.728	597019.783
SU1-11-011	20051201	Bismuth-210M	8.3	0.056	0.056		U	1464122.728	597019.783
SU1-11-011	20051201	Bismuth-212	9.87	0.55	0.33			1464122.728	597019.783
SU1-11-011	20051201	Bismuth-214	1.17	0.77	0.09			1464122.728	597019.783
SU1-11-011	20051201	Cesium-137	3.8	0.068	0.068		U	1464122.728	597019.783
SU1-11-011	20051201	Cobalt-60	0.7	0.058	0.058		U	1464122.728	597019.783
SU1-11-011	20051201	Lead-210	7.4	1.5	1.5		U	1464122.728	597019.783
SU1-11-011	20051201	Lead-212	16.6	0.73	0.07			1464122.728	597019.783
SU1-11-011	20051201	Lead-214	8.9	0.82	0.09			1464122.728	597019.783
SU1-11-011	20051201	Potassium-40	47.8	11.1	0.6			1464122.728	597019.783
SU1-11-011	20051201	Protactinium-231	4	1.5	1.5		U	1464122.728	597019.783
SU1-11-011	20051201	Radium-224	2.6*	1.57	0.75			1464122.728	597019.783
SU1-11-011	20051201	Radium-226	2.9	0.77	0.09			1464122.728	597019.783
SU1-11-011	20051201	Radium-228	2.1	0.63	0.2			1464122.728	597019.783
SU1-11-011	20051201	Thallium-208	0.498**	0.267	0.048			1464122.728	597019.783
SU1-11-011	20051201	Thorium-228	2.6	0.75	0.03			1464122.728	597019.783
SU1-11-011	20051201	Thorium-230	2.8	1.43	0.03			1464122.728	597019.783
SU1-11-011	20051201	Thorium-232	2.1	0.76	0.02			1464122.728	597019.783
SU1-11-011	20051201	Thorium-232	2.1	0.63	0.2			1464122.728	597019.783
SU1-11-011	20051201	Uranium-234	2	0.67	0.02			1464122.728	597019.783
SU1-11-011	20051201	Uranium-238	3.2	0.7	0.01			1464122.728	597019.783
SU1-11-012	20051201	Actinium-227	4.6	0.22	0.22		U	1464137.728	597019.783
SU1-11-012	20051201	Actinium-228	1.93	0.64	0.15			1464137.728	597019.783
SU1-11-012	20051201	Americium-241	63	0.092	0.092		U	1464137.728	597019.783
SU1-11-012	20051201	Beryllium-7	41.1	0.31	0.31		U	1464137.728	597019.783
SU1-11-012	20051201	Bismuth-207	1.2	0.037	0.037		U	1464137.728	597019.783
SU1-11-012	20051201	Bismuth-210M	8.3	0.051	0.051		U	1464137.728	597019.783
SU1-11-012	20051201	Bismuth-214	1.17	0.87	0.08			1464137.728	597019.783
SU1-11-012	20051201	Cesium-137	3.8	0.074	0.055		J	1464137.728	597019.783
SU1-11-012	20051201	Cobalt-60	0.7	0.046	0.046		U	1464137.728	597019.783
SU1-11-012	20051201	Lead-210	7.4	1.1	1.1		U	1464137.728	597019.783
SU1-11-012	20051201	Lead-212	16.6	0.7	0.06			1464137.728	597019.783
SU1-11-012	20051201	Lead-214	8.9	0.84	0.08			1464137.728	597019.783
SU1-11-012	20051201	Potassium-40	47.8	12.2	0.3			1464137.728	597019.783
SU1-11-012	20051201	Protactinium-231	4	1.56	1.4			1464137.728	597019.783
SU1-11-012	20051201	Radium-224	2.6*	2.4	1			1464137.728	597019.783
SU1-11-012	20051201	Radium-226	2.9	0.87	0.08			1464137.728	597019.783
SU1-11-012	20051201	Radium-228	2.1	0.64	0.15			1464137.728	597019.783
SU1-11-012	20051201	Thallium-208	0.498**	0.256	0.039			1464137.728	597019.783
SU1-11-012	20051201	Thorium-228	2.6	0.77	0.04			1464137.728	597019.783
SU1-11-012	20051201	Thorium-230	2.8	1.13	0.03			1464137.728	597019.783
SU1-11-012	20051201	Thorium-232	2.1	0.64	0.15			1464137.728	597019.783
SU1-11-012	20051201	Thorium-232	2.1	0.81	0.01			1464137.728	597019.783
SU1-11-012	20051201	Uranium-234	2	0.96	0.02			1464137.728	597019.783
SU1-11-012	20051201	Uranium-238	3.2	0.81	0.01			1464137.728	597019.783
SU1-11-013	20051201	Actinium-227	4.6	0.28	0.28		U	1464152.728	597019.783
SU1-11-013	20051201	Actinium-228	1.93	0.61	0.18			1464152.728	597019.783
SU1-11-013	20051201	Americium-241	63	0.1	0.1		U	1464152.728	597019.783
SU1-11-013	20051201	Beryllium-7	41.1	0.39	0.39		U	1464152.728	597019.783
SU1-11-013	20051201	Bismuth-207	1.2	0.041	0.041		U	1464152.728	597019.783

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-013	20051201	Bismuth-210M	8.3	0.052	0.052		U	1464152.728	597019.783
SU1-11-013	20051201	Bismuth-214	1.17	0.83	0.09			1464152.728	597019.783
SU1-11-013	20051201	Cesium-137	3.8	0.064	0.064		U	1464152.728	597019.783
SU1-11-013	20051201	Cobalt-60	0.7	0.06	0.06		U	1464152.728	597019.783
SU1-11-013	20051201	Lead-210	7.4	1.3	1.3		U	1464152.728	597019.783
SU1-11-013	20051201	Lead-212	16.6	0.619	0.075			1464152.728	597019.783
SU1-11-013	20051201	Lead-214	8.9	0.95	0.09			1464152.728	597019.783
SU1-11-013	20051201	Potassium-40	47.8	12.5	0.6			1464152.728	597019.783
SU1-11-013	20051201	Protactinium-231	4	1.3	1.3		U	1464152.728	597019.783
SU1-11-013	20051201	Radium-224	2.6*	3.2	1.2			1464152.728	597019.783
SU1-11-013	20051201	Radium-226	2.9	0.83	0.09			1464152.728	597019.783
SU1-11-013	20051201	Radium-228	2.1	0.61	0.18			1464152.728	597019.783
SU1-11-013	20051201	Thallium-208	0.498**	0.212	0.052			1464152.728	597019.783
SU1-11-013	20051201	Thorium-228	2.6	0.71	0.03			1464152.728	597019.783
SU1-11-013	20051201	Thorium-230	2.8	1.22	0.02			1464152.728	597019.783
SU1-11-013	20051201	Thorium-232	2.1	0.61	0.18			1464152.728	597019.783
SU1-11-013	20051201	Thorium-232	2.1	0.58	0.03			1464152.728	597019.783
SU1-11-013	20051201	Thorium-234	176	0.95	0.87			1464152.728	597019.783
SU1-11-013	20051201	Uranium-234	2	0.75	0.02			1464152.728	597019.783
SU1-11-013	20051201	Uranium-238	3.2	0.71	0.01			1464152.728	597019.783
SU1-11-013	20051201	Uranium-238	3.2	0.95	0.87			1464152.728	597019.783
SU1-11-014	20051129	Actinium-227	4.6	0.38	0.31		J	1463950.228	597032.774
SU1-11-014	20051129	Actinium-228	1.93	1.24	0.17			1463950.228	597032.774
SU1-11-014	20051129	Americium-241	63	0.12	0.12		U	1463950.228	597032.774
SU1-11-014	20051129	Bismuth-207	1.2	0.048	0.048		U	1463950.228	597032.774
SU1-11-014	20051129	Bismuth-210M	8.3	0.067	0.067		U	1463950.228	597032.774
SU1-11-014	20051129	Bismuth-212	9.87	1.03	0.43			1463950.228	597032.774
SU1-11-014	20051129	Bismuth-214	1.17	0.97	0.08			1463950.228	597032.774
SU1-11-014	20051129	Cesium-137	3.8	0.098	0.064		J	1463950.228	597032.774
SU1-11-014	20051129	Cobalt-60	0.7	0.076	0.076		U	1463950.228	597032.774
SU1-11-014	20051129	Lead-210	7.4	1.4	1.4		U	1463950.228	597032.774
SU1-11-014	20051129	Lead-212	16.6	1.27	0.09			1463950.228	597032.774
SU1-11-014	20051129	Lead-214	8.9	1.08	0.1			1463950.228	597032.774
SU1-11-014	20051129	Potassium-40	47.8	15.2	0.5			1463950.228	597032.774
SU1-11-014	20051129	Protactinium-231	4	1.7	1.7		U	1463950.228	597032.774
SU1-11-014	20051129	Radium-224	2.6*	2.9	0.9			1463950.228	597032.774
SU1-11-014	20051129	Radium-226	2.9	0.97	0.08			1463950.228	597032.774
SU1-11-014	20051129	Radium-228	2.1	1.24	0.17			1463950.228	597032.774
SU1-11-014	20051129	Thallium-208	0.498**	0.485	0.06			1463950.228	597032.774
SU1-11-014	20051129	Thorium-228	2.6	1.61	0.04			1463950.228	597032.774
SU1-11-014	20051129	Thorium-230	2.8	1.38	0.02			1463950.228	597032.774
SU1-11-014	20051129	Thorium-232	2.1	1.38	0.02			1463950.228	597032.774
SU1-11-014	20051129	Thorium-232	2.1	1.24	0.17			1463950.228	597032.774
SU1-11-014	20051129	Uranium-234	2	0.82	0.02			1463950.228	597032.774
SU1-11-014	20051129	Uranium-238	3.2	0.94	0.02			1463950.228	597032.774
SU1-11-015	20051129	Actinium-227	4.6	0.35	0.26		J	1463965.228	597032.774
SU1-11-015	20051129	Actinium-228	1.93	0.76	0.15			1463965.228	597032.774
SU1-11-015	20051129	Americium-241	63	0.089	0.089		U	1463965.228	597032.774
SU1-11-015	20051129	Bismuth-207	1.2	0.039	0.039		U	1463965.228	597032.774
SU1-11-015	20051129	Bismuth-210M	8.3	0.048	0.048		U	1463965.228	597032.774
SU1-11-015	20051129	Bismuth-212	9.87	0.47	0.31			1463965.228	597032.774
SU1-11-015	20051129	Bismuth-214	1.17	0.71	0.07			1463965.228	597032.774
SU1-11-015	20051129	Cesium-137	3.8	0.05	0.05		U	1463965.228	597032.774
SU1-11-015	20051129	Cobalt-60	0.7	0.045	0.045		U	1463965.228	597032.774
SU1-11-015	20051129	Lead-210	7.4	0.91	0.91		U	1463965.228	597032.774
SU1-11-015	20051129	Lead-212	16.6	0.73	0.06			1463965.228	597032.774
SU1-11-015	20051129	Lead-214	8.9	0.75	0.07			1463965.228	597032.774
SU1-11-015	20051129	Potassium-40	47.8	8.9	0.4		J	1463965.228	597032.774
SU1-11-015	20051129	Protactinium-231	4	1.51	1.3			1463965.228	597032.774

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-015	20051129	Radium-224	2.6*	1.42	0.63			1463965.228	597032.774
SU1-11-015	20051129	Radium-226	2.9	0.71	0.07			1463965.228	597032.774
SU1-11-015	20051129	Radium-228	2.1	0.76	0.15			1463965.228	597032.774
SU1-11-015	20051129	Thallium-208	0.498**	0.263	0.041			1463965.228	597032.774
SU1-11-015	20051129	Thorium-228	2.6	1.56	0.03			1463965.228	597032.774
SU1-11-015	20051129	Thorium-230	2.8	1.63	0.01			1463965.228	597032.774
SU1-11-015	20051129	Thorium-232	2.1	1.58	0.02			1463965.228	597032.774
SU1-11-015	20051129	Thorium-232	2.1	0.76	0.15			1463965.228	597032.774
SU1-11-015	20051129	Uranium-234	2	1.02	0.009			1463965.228	597032.774
SU1-11-015	20051129	Uranium-238	3.2	1.12	0.02			1463965.228	597032.774
SU1-11-016	20051130	Actinium-227	4.6	0.2	0.2		U	1463980.228	597032.774
SU1-11-016	20051130	Actinium-228	1.93	0.46	0.14			1463980.228	597032.774
SU1-11-016	20051130	Americium-241	63	0.071	0.071		U	1463980.228	597032.774
SU1-11-016	20051130	Bismuth-207	1.2	0.03	0.03		U	1463980.228	597032.774
SU1-11-016	20051130	Bismuth-210M	8.3	0.04	0.04		U	1463980.228	597032.774
SU1-11-016	20051130	Bismuth-214	1.17	0.55	0.07			1463980.228	597032.774
SU1-11-016	20051130	Cesium-137	3.8	0.037	0.037		U	1463980.228	597032.774
SU1-11-016	20051130	Cobalt-60	0.7	0.035	0.035		U	1463980.228	597032.774
SU1-11-016	20051130	Lead-210	7.4	0.75	0.75		U	1463980.228	597032.774
SU1-11-016	20051130	Lead-212	16.6	0.32	0.054			1463980.228	597032.774
SU1-11-016	20051130	Lead-214	8.9	0.512	0.056			1463980.228	597032.774
SU1-11-016	20051130	Potassium-40	47.8	7.3	0.3		J	1463980.228	597032.774
SU1-11-016	20051130	Protactinium-231	4	1	1		U	1463980.228	597032.774
SU1-11-016	20051130	Radium-224	2.6*	2	0.8			1463980.228	597032.774
SU1-11-016	20051130	Radium-226	2.9	0.55	0.07			1463980.228	597032.774
SU1-11-016	20051130	Radium-228	2.1	0.46	0.14			1463980.228	597032.774
SU1-11-016	20051130	Thallium-208	0.498**	0.162	0.033			1463980.228	597032.774
SU1-11-016	20051130	Thorium-228	2.6	0.5	0.05			1463980.228	597032.774
SU1-11-016	20051130	Thorium-230	2.8	1.44	0.04			1463980.228	597032.774
SU1-11-016	20051130	Thorium-232	2.1	0.46	0.14			1463980.228	597032.774
SU1-11-016	20051130	Thorium-232	2.1	0.53	0.04			1463980.228	597032.774
SU1-11-016	20051130	Uranium-234	2	0.65	0.02			1463980.228	597032.774
SU1-11-016	20051130	Uranium-238	3.2	0.7	0.01			1463980.228	597032.774
SU1-11-017	20051130	Actinium-227	4.6	0.21	0.21		U	1463995.228	597032.774
SU1-11-017	20051130	Americium-241	63	0.084	0.084		U	1463995.228	597032.774
SU1-11-017	20051130	Bismuth-207	1.2	0.042	0.042		U	1463995.228	597032.774
SU1-11-017	20051130	Bismuth-210M	8.3	0.047	0.047		U	1463995.228	597032.774
SU1-11-017	20051130	Bismuth-214	1.17	0.49	0.09			1463995.228	597032.774
SU1-11-017	20051130	Cesium-137	3.8	0.061	0.061		U	1463995.228	597032.774
SU1-11-017	20051130	Cobalt-60	0.7	0.057	0.057		U	1463995.228	597032.774
SU1-11-017	20051130	Lead-210	7.4	1	1		U	1463995.228	597032.774
SU1-11-017	20051130	Lead-212	16.6	0.124	0.093			1463995.228	597032.774
SU1-11-017	20051130	Lead-214	8.9	0.46	0.07			1463995.228	597032.774
SU1-11-017	20051130	Potassium-40	47.8	5.6	0.5		J	1463995.228	597032.774
SU1-11-017	20051130	Protactinium-231	4	1.2	1.2		U	1463995.228	597032.774
SU1-11-017	20051130	Radium-224	2.6*	1.41	0.96			1463995.228	597032.774
SU1-11-017	20051130	Radium-226	2.9	0.49	0.09			1463995.228	597032.774
SU1-11-017	20051130	Thallium-208	0.498**	0.049	0.04			1463995.228	597032.774
SU1-11-017	20051130	Thorium-228	2.6	0.264	0.037			1463995.228	597032.774
SU1-11-017	20051130	Thorium-230	2.8	0.77	0.02			1463995.228	597032.774
SU1-11-017	20051130	Thorium-232	2.1	0.209	0.022			1463995.228	597032.774
SU1-11-017	20051130	Uranium-234	2	0.49	0.02			1463995.228	597032.774
SU1-11-017	20051130	Uranium-238	3.2	0.58	0.01			1463995.228	597032.774
SU1-11-017D	20051130	Actinium-227	4.6	0.26	0.26		U	1463995.228	597032.774
SU1-11-017D	20051130	Americium-241	63	0.096	0.096		U	1463995.228	597032.774
SU1-11-017D	20051130	Bismuth-207	1.2	0.055	0.055		U	1463995.228	597032.774
SU1-11-017D	20051130	Bismuth-210M	8.3	0.055	0.055		U	1463995.228	597032.774
SU1-11-017D	20051130	Bismuth-214	1.17	0.44	0.07			1463995.228	597032.774
SU1-11-017D	20051130	Cesium-137	3.8	0.055	0.055		U	1463995.228	597032.774

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-017D	20051130	Cobalt-60	0.7	0.058	0.058		U	1463995.228	597032.774
SU1-11-017D	20051130	Lead-210	7.4	1.4	1.4		U	1463995.228	597032.774
SU1-11-017D	20051130	Lead-212	16.6	0.203	0.077			1463995.228	597032.774
SU1-11-017D	20051130	Lead-214	8.9	0.47	0.09			1463995.228	597032.774
SU1-11-017D	20051130	Potassium-40	47.8	6.1	0.5		J	1463995.228	597032.774
SU1-11-017D	20051130	Protactinium-231	4	1.4	1.4		U	1463995.228	597032.774
SU1-11-017D	20051130	Radium-226	2.9	0.44	0.07			1463995.228	597032.774
SU1-11-017D	20051130	Radium-228	2.1	0.82	0.82		U	1463995.228	597032.774
SU1-11-017D	20051130	Thallium-208	0.498**	0.089	0.06			1463995.228	597032.774
SU1-11-017D	20051130	Thorium-228	2.6	0.34	0.06			1463995.228	597032.774
SU1-11-017D	20051130	Thorium-230	2.8	0.93	0.04			1463995.228	597032.774
SU1-11-017D	20051130	Thorium-232	2.1	0.33	0.04			1463995.228	597032.774
SU1-11-017D	20051130	Uranium-234	2	0.77	0.02			1463995.228	597032.774
SU1-11-017D	20051130	Uranium-238	3.2	0.69	0.02			1463995.228	597032.774
SU1-11-018	20051130	Actinium-227	4.6	0.22	0.22		U	1464010.228	597032.774
SU1-11-018	20051130	Actinium-228	1.93	0.56	0.11			1464010.228	597032.774
SU1-11-018	20051130	Americium-241	63	0.085	0.085		U	1464010.228	597032.774
SU1-11-018	20051130	Bismuth-207	1.2	0.039	0.039		U	1464010.228	597032.774
SU1-11-018	20051130	Bismuth-210M	8.3	0.051	0.051		U	1464010.228	597032.774
SU1-11-018	20051130	Bismuth-214	1.17	0.69	0.09			1464010.228	597032.774
SU1-11-018	20051130	Cesium-137	3.8	0.043	0.043		U	1464010.228	597032.774
SU1-11-018	20051130	Cobalt-60	0.7	0.047	0.047		U	1464010.228	597032.774
SU1-11-018	20051130	Lead-210	7.4	1.2	1.2		U	1464010.228	597032.774
SU1-11-018	20051130	Lead-212	16.6	0.548	0.059			1464010.228	597032.774
SU1-11-018	20051130	Lead-214	8.9	0.62	0.07			1464010.228	597032.774
SU1-11-018	20051130	Potassium-40	47.8	8.1	0.4		J	1464010.228	597032.774
SU1-11-018	20051130	Protactinium-231	4	1.3	1.3		U	1464010.228	597032.774
SU1-11-018	20051130	Radium-224	2.6*	1.53	0.63			1464010.228	597032.774
SU1-11-018	20051130	Radium-226	2.9	0.69	0.09			1464010.228	597032.774
SU1-11-018	20051130	Radium-228	2.1	0.56	0.11			1464010.228	597032.774
SU1-11-018	20051130	Thallium-208	0.498**	0.228	0.044			1464010.228	597032.774
SU1-11-018	20051130	Thorium-228	2.6	0.81	0.03			1464010.228	597032.774
SU1-11-018	20051130	Thorium-230	2.8	1.01	0.02			1464010.228	597032.774
SU1-11-018	20051130	Thorium-232	2.1	0.56	0.11			1464010.228	597032.774
SU1-11-018	20051130	Thorium-232	2.1	0.7	0.02			1464010.228	597032.774
SU1-11-018	20051130	Uranium-234	2	0.64	0.01			1464010.228	597032.774
SU1-11-018	20051130	Uranium-238	3.2	0.75	0.01			1464010.228	597032.774
SU1-11-019	20051130	Actinium-227	4.6	0.32	0.32		U	1464025.228	597032.774
SU1-11-019	20051130	Actinium-228	1.93	0.62	0.26			1464025.228	597032.774
SU1-11-019	20051130	Americium-241	63	0.13	0.13		U	1464025.228	597032.774
SU1-11-019	20051130	Bismuth-207	1.2	0.066	0.066		U	1464025.228	597032.774
SU1-11-019	20051130	Bismuth-210M	8.3	0.086	0.086		U	1464025.228	597032.774
SU1-11-019	20051130	Bismuth-214	1.17	0.83	0.13			1464025.228	597032.774
SU1-11-019	20051130	Cesium-137	3.8	0.097	0.097		U	1464025.228	597032.774
SU1-11-019	20051130	Cobalt-60	0.7	0.089	0.089		U	1464025.228	597032.774
SU1-11-019	20051130	Lead-210	7.4	1.9	1.9		U	1464025.228	597032.774
SU1-11-019	20051130	Lead-212	16.6	0.69	0.08			1464025.228	597032.774
SU1-11-019	20051130	Lead-214	8.9	0.9	0.12			1464025.228	597032.774
SU1-11-019	20051130	Potassium-40	47.8	14.6	0.9			1464025.228	597032.774
SU1-11-019	20051130	Protactinium-231	4	1.7	1.7		U	1464025.228	597032.774
SU1-11-019	20051130	Radium-224	2.6*	2.3	0.8			1464025.228	597032.774
SU1-11-019	20051130	Radium-226	2.9	0.83	0.13			1464025.228	597032.774
SU1-11-019	20051130	Radium-228	2.1	0.62	0.26			1464025.228	597032.774
SU1-11-019	20051130	Thallium-208	0.498**	0.224	0.072			1464025.228	597032.774
SU1-11-019	20051130	Thorium-228	2.6	0.87	0.08			1464025.228	597032.774
SU1-11-019	20051130	Thorium-230	2.8	1	0.05			1464025.228	597032.774
SU1-11-019	20051130	Thorium-232	2.1	0.75	0.05			1464025.228	597032.774
SU1-11-019	20051130	Thorium-232	2.1	0.62	0.26			1464025.228	597032.774
SU1-11-019	20051130	Uranium-234	2	0.58	0.03			1464025.228	597032.774

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-019	20051130	Uranium-238	3.2	0.74	0.02			1464025.228	597032.774
SU1-11-020	20051130	Actinium-227	4.6	0.34	0.34		U	1464040.228	597032.774
SU1-11-020	20051130	Americium-241	63	0.13	0.13		U	1464040.228	597032.774
SU1-11-020	20051130	Bismuth-207	1.2	0.066	0.066		U	1464040.228	597032.774
SU1-11-020	20051130	Bismuth-210M	8.3	0.085	0.085		U	1464040.228	597032.774
SU1-11-020	20051130	Bismuth-214	1.17	0.67	0.12			1464040.228	597032.774
SU1-11-020	20051130	Cesium-137	3.8	0.074	0.074		U	1464040.228	597032.774
SU1-11-020	20051130	Cobalt-60	0.7	0.093	0.093		U	1464040.228	597032.774
SU1-11-020	20051130	Lead-210	7.4	1.9	1.9		U	1464040.228	597032.774
SU1-11-020	20051130	Lead-212	16.6	0.45	0.09			1464040.228	597032.774
SU1-11-020	20051130	Lead-214	8.9	0.58	0.14			1464040.228	597032.774
SU1-11-020	20051130	Potassium-40	47.8	9.1	0.5		J	1464040.228	597032.774
SU1-11-020	20051130	Protactinium-231	4	2.2	2.2		U	1464040.228	597032.774
SU1-11-020	20051130	Radium-224	2.6*	1.41	0.94			1464040.228	597032.774
SU1-11-020	20051130	Radium-226	2.9	0.67	0.12			1464040.228	597032.774
SU1-11-020	20051130	Thorium-228	2.6	0.56	0.05			1464040.228	597032.774
SU1-11-020	20051130	Thorium-230	2.8	1.01	0.03			1464040.228	597032.774
SU1-11-020	20051130	Thorium-232	2.1	0.44	0.01			1464040.228	597032.774
SU1-11-020	20051130	Uranium-234	2	0.69	0.03			1464040.228	597032.774
SU1-11-020	20051130	Uranium-238	3.2	0.66	0.03			1464040.228	597032.774
SU1-11-021	20051130	Actinium-227	4.6	0.19	0.19		U	1464055.228	597032.774
SU1-11-021	20051130	Actinium-228	1.93	0.42	0.13			1464055.228	597032.774
SU1-11-021	20051130	Americium-241	63	0.074	0.074		U	1464055.228	597032.774
SU1-11-021	20051130	Bismuth-207	1.2	0.031	0.031		U	1464055.228	597032.774
SU1-11-021	20051130	Bismuth-210M	8.3	0.043	0.043		U	1464055.228	597032.774
SU1-11-021	20051130	Bismuth-212	9.87	0.38	0.31			1464055.228	597032.774
SU1-11-021	20051130	Bismuth-214	1.17	0.63	0.06			1464055.228	597032.774
SU1-11-021	20051130	Cesium-137	3.8	0.048	0.048		U	1464055.228	597032.774
SU1-11-021	20051130	Cobalt-60	0.7	0.042	0.042		U	1464055.228	597032.774
SU1-11-021	20051130	Lead-210	7.4	0.7	0.7		U	1464055.228	597032.774
SU1-11-021	20051130	Lead-212	16.6	0.348	0.048			1464055.228	597032.774
SU1-11-021	20051130	Lead-214	8.9	0.64	0.06			1464055.228	597032.774
SU1-11-021	20051130	Potassium-40	47.8	8.3	0.4		J	1464055.228	597032.774
SU1-11-021	20051130	Protactinium-231	4	1	1		U	1464055.228	597032.774
SU1-11-021	20051130	Radium-224	2.6*	1.45	0.51			1464055.228	597032.774
SU1-11-021	20051130	Radium-226	2.9	0.63	0.06			1464055.228	597032.774
SU1-11-021	20051130	Radium-228	2.1	0.42	0.13			1464055.228	597032.774
SU1-11-021	20051130	Thallium-208	0.498**	0.11	0.04			1464055.228	597032.774
SU1-11-021	20051130	Thorium-228	2.6	0.359	0.041			1464055.228	597032.774
SU1-11-021	20051130	Thorium-230	2.8	0.66	0.02			1464055.228	597032.774
SU1-11-021	20051130	Thorium-232	2.1	0.5	0.01			1464055.228	597032.774
SU1-11-021	20051130	Thorium-232	2.1	0.42	0.13			1464055.228	597032.774
SU1-11-021	20051130	Uranium-234	2	0.57	0.01			1464055.228	597032.774
SU1-11-021	20051130	Uranium-238	3.2	0.58	0.03			1464055.228	597032.774
SU1-11-022	20051130	Actinium-227	4.6	0.23	0.23		U	1464070.228	597032.774
SU1-11-022	20051130	Actinium-228	1.93	0.48	0.16			1464070.228	597032.774
SU1-11-022	20051130	Americium-241	63	0.089	0.089		U	1464070.228	597032.774
SU1-11-022	20051130	Bismuth-207	1.2	0.035	0.035		U	1464070.228	597032.774
SU1-11-022	20051130	Bismuth-210M	8.3	0.054	0.054		U	1464070.228	597032.774
SU1-11-022	20051130	Bismuth-214	1.17	0.62	0.07			1464070.228	597032.774
SU1-11-022	20051130	Cesium-137	3.8	0.051	0.051		U	1464070.228	597032.774
SU1-11-022	20051130	Cobalt-60	0.7	0.056	0.056		U	1464070.228	597032.774
SU1-11-022	20051130	Lead-210	7.4	1.2	1.2		U	1464070.228	597032.774
SU1-11-022	20051130	Lead-212	16.6	0.413	0.092			1464070.228	597032.774
SU1-11-022	20051130	Lead-214	8.9	0.61	0.07			1464070.228	597032.774
SU1-11-022	20051130	Potassium-40	47.8	9.7	0.4		J	1464070.228	597032.774
SU1-11-022	20051130	Protactinium-231	4	1.2	1.2		U	1464070.228	597032.774
SU1-11-022	20051130	Radium-224	2.6*	1.9	0.9	J		1464070.228	597032.774
SU1-11-022	20051130	Radium-226	2.9	0.62	0.07	J		1464070.228	597032.774

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-022	20051130	Radium-228	2.1	0.48	0.16			1464070.228	597032.774
SU1-11-022	20051130	Thallium-208	0.498**	0.188	0.046			1464070.228	597032.774
SU1-11-022	20051130	Thorium-228	2.6	0.59	0.03			1464070.228	597032.774
SU1-11-022	20051130	Thorium-230	2.8	1.01	0.02			1464070.228	597032.774
SU1-11-022	20051130	Thorium-232	2.1	0.48	0.16			1464070.228	597032.774
SU1-11-022	20051130	Thorium-232	2.1	0.53	0.02			1464070.228	597032.774
SU1-11-022	20051130	Uranium-234	2	0.65	0.02			1464070.228	597032.774
SU1-11-022	20051130	Uranium-238	3.2	0.69	0.01			1464070.228	597032.774
SU1-11-024	20051201	Actinium-227	4.6	0.27	0.27		U	1464115.228	597032.774
SU1-11-024	20051201	Actinium-228	1.93	0.51	0.18			1464115.228	597032.774
SU1-11-024	20051201	Americium-241	63	0.11	0.11		U	1464115.228	597032.774
SU1-11-024	20051201	Beryllium-7	41.1	0.36	0.36		U	1464115.228	597032.774
SU1-11-024	20051201	Bismuth-207	1.2	0.04	0.04		U	1464115.228	597032.774
SU1-11-024	20051201	Bismuth-210M	8.3	0.057	0.057		U	1464115.228	597032.774
SU1-11-024	20051201	Bismuth-214	1.17	0.73	0.09			1464115.228	597032.774
SU1-11-024	20051201	Cesium-137	3.8	0.063	0.063		U	1464115.228	597032.774
SU1-11-024	20051201	Cobalt-60	0.7	0.057	0.057		U	1464115.228	597032.774
SU1-11-024	20051201	Lead-210	7.4	1.2	1.2		U	1464115.228	597032.774
SU1-11-024	20051201	Lead-212	16.6	0.69	0.06			1464115.228	597032.774
SU1-11-024	20051201	Lead-214	8.9	0.75	0.08			1464115.228	597032.774
SU1-11-024	20051201	Potassium-40	47.8	13.7	0.5			1464115.228	597032.774
SU1-11-024	20051201	Protactinium-231	4	1.3	1.3		U	1464115.228	597032.774
SU1-11-024	20051201	Radium-224	2.6*	2.2	0.7			1464115.228	597032.774
SU1-11-024	20051201	Radium-226	2.9	0.73	0.09			1464115.228	597032.774
SU1-11-024	20051201	Radium-228	2.1	0.51	0.18			1464115.228	597032.774
SU1-11-024	20051201	Thallium-208	0.498**	0.238	0.048			1464115.228	597032.774
SU1-11-024	20051201	Thorium-228	2.6	0.8	0.03			1464115.228	597032.774
SU1-11-024	20051201	Thorium-230	2.8	1.12	0.01			1464115.228	597032.774
SU1-11-024	20051201	Thorium-232	2.1	0.8	0.02			1464115.228	597032.774
SU1-11-024	20051201	Thorium-232	2.1	0.51	0.18			1464115.228	597032.774
SU1-11-024	20051201	Thorium-234	176	1.14	0.91			1464115.228	597032.774
SU1-11-024	20051201	Uranium-234	2	0.68	0.02			1464115.228	597032.774
SU1-11-024	20051201	Uranium-238	3.2	0.71	0.02			1464115.228	597032.774
SU1-11-024	20051201	Uranium-238	3.2	1.14	0.91			1464115.228	597032.774
SU1-11-025	20051201	Actinium-227	4.6	0.32	0.32		U	1463957.728	597045.764
SU1-11-025	20051201	Actinium-228	1.93	1	0.17			1463957.728	597045.764
SU1-11-025	20051201	Americium-241	63	0.11	0.11		U	1463957.728	597045.764
SU1-11-025	20051201	Beryllium-7	41.1	0.38	0.38		U	1463957.728	597045.764
SU1-11-025	20051201	Bismuth-207	1.2	0.042	0.042		U	1463957.728	597045.764
SU1-11-025	20051201	Bismuth-210M	8.3	0.062	0.062		U	1463957.728	597045.764
SU1-11-025	20051201	Bismuth-212	9.87	0.64	0.38			1463957.728	597045.764
SU1-11-025	20051201	Bismuth-214	1.17	1.05	0.09			1463957.728	597045.764
SU1-11-025	20051201	Cesium-137	3.8	0.06	0.06		U	1463957.728	597045.764
SU1-11-025	20051201	Cobalt-60	0.7	0.076	0.076		U	1463957.728	597045.764
SU1-11-025	20051201	Lead-210	7.4	1.2	1.2		U	1463957.728	597045.764
SU1-11-025	20051201	Lead-212	16.6	0.88	0.08			1463957.728	597045.764
SU1-11-025	20051201	Lead-214	8.9	1.13	0.09			1463957.728	597045.764
SU1-11-025	20051201	Potassium-40	47.8	16.9	0.3			1463957.728	597045.764
SU1-11-025	20051201	Protactinium-231	4	1.5	1.5		U	1463957.728	597045.764
SU1-11-025	20051201	Radium-224	2.6*	2.3	0.8			1463957.728	597045.764
SU1-11-025	20051201	Radium-226	2.9	1.05	0.09			1463957.728	597045.764
SU1-11-025	20051201	Radium-228	2.1	1	0.17			1463957.728	597045.764
SU1-11-025	20051201	Thallium-208	0.498**	0.336	0.051			1463957.728	597045.764
SU1-11-025	20051201	Thorium-228	2.6	1.03	0.05			1463957.728	597045.764
SU1-11-025	20051201	Thorium-230	2.8	1.79	0.03			1463957.728	597045.764
SU1-11-025	20051201	Thorium-232	2.1	1	0.17			1463957.728	597045.764
SU1-11-025	20051201	Thorium-232	2.1	0.89	0.03			1463957.728	597045.764
SU1-11-025	20051201	Uranium-234	2	0.85	0.04			1463957.728	597045.764
SU1-11-025	20051201	Uranium-238	3.2	1.04	0.04			1463957.728	597045.764

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-026	20051129	Actinium-227	4.6	0.28	0.28		U	1463972.728	597045.764
SU1-11-026	20051129	Actinium-228	1.93	0.95	0.18			1463972.728	597045.764
SU1-11-026	20051129	Americium-241	63	0.11	0.11		U	1463972.728	597045.764
SU1-11-026	20051129	Bismuth-207	1.2	0.045	0.045		U	1463972.728	597045.764
SU1-11-026	20051129	Bismuth-210M	8.3	0.055	0.055		U	1463972.728	597045.764
SU1-11-026	20051129	Bismuth-212	9.87	0.61	0.42			1463972.728	597045.764
SU1-11-026	20051129	Bismuth-214	1.17	0.88	0.11			1463972.728	597045.764
SU1-11-026	20051129	Cesium-137	3.8	0.058	0.058		U	1463972.728	597045.764
SU1-11-026	20051129	Cobalt-60	0.7	0.055	0.055		U	1463972.728	597045.764
SU1-11-026	20051129	Lead-210	7.4	1.3	1.3		U	1463972.728	597045.764
SU1-11-026	20051129	Lead-212	16.6	0.98	0.07			1463972.728	597045.764
SU1-11-026	20051129	Lead-214	8.9	0.84	0.09			1463972.728	597045.764
SU1-11-026	20051129	Potassium-40	47.8	12.2	0.5			1463972.728	597045.764
SU1-11-026	20051129	Protactinium-231	4	1.5	1.5		U	1463972.728	597045.764
SU1-11-026	20051129	Radium-224	2.6*	1.62	0.76			1463972.728	597045.764
SU1-11-026	20051129	Radium-226	2.9	0.88	0.11			1463972.728	597045.764
SU1-11-026	20051129	Radium-228	2.1	0.95	0.18			1463972.728	597045.764
SU1-11-026	20051129	Thallium-208	0.498**	0.325	0.051			1463972.728	597045.764
SU1-11-026	20051129	Thorium-228	2.6	1.05	0.06			1463972.728	597045.764
SU1-11-026	20051129	Thorium-230	2.8	1.39	0.02			1463972.728	597045.764
SU1-11-026	20051129	Thorium-232	2.1	1.11	0.04			1463972.728	597045.764
SU1-11-026	20051129	Thorium-232	2.1	0.95	0.18			1463972.728	597045.764
SU1-11-026	20051129	Thorium-234	176	0.95	0.87			1463972.728	597045.764
SU1-11-026	20051129	Uranium-234	2	0.86	0.02			1463972.728	597045.764
SU1-11-026	20051129	Uranium-238	3.2	0.95	0.87			1463972.728	597045.764
SU1-11-026	20051129	Uranium-238	3.2	0.85	0.02			1463972.728	597045.764
SU1-11-027	20051130	Actinium-227	4.6	0.3	0.3		U	1463987.728	597045.764
SU1-11-027	20051130	Actinium-228	1.93	0.5	0.21			1463987.728	597045.764
SU1-11-027	20051130	Americium-241	63	0.1	0.1		U	1463987.728	597045.764
SU1-11-027	20051130	Bismuth-207	1.2	0.04	0.04		U	1463987.728	597045.764
SU1-11-027	20051130	Bismuth-210M	8.3	0.057	0.057		U	1463987.728	597045.764
SU1-11-027	20051130	Bismuth-212	9.87	0.59	0.39			1463987.728	597045.764
SU1-11-027	20051130	Bismuth-214	1.17	0.75	0.12			1463987.728	597045.764
SU1-11-027	20051130	Cesium-137	3.8	0.072	0.072		U	1463987.728	597045.764
SU1-11-027	20051130	Cobalt-60	0.7	0.067	0.067		U	1463987.728	597045.764
SU1-11-027	20051130	Lead-210	7.4	1.3	1.3		U	1463987.728	597045.764
SU1-11-027	20051130	Lead-212	16.6	0.461	0.078			1463987.728	597045.764
SU1-11-027	20051130	Lead-214	8.9	0.75	0.11			1463987.728	597045.764
SU1-11-027	20051130	Potassium-40	47.8	9.8	0.1		J	1463987.728	597045.764
SU1-11-027	20051130	Protactinium-231	4	1.7	1.7		U	1463987.728	597045.764
SU1-11-027	20051130	Radium-224	2.6*	1.9	1.3			1463987.728	597045.764
SU1-11-027	20051130	Radium-226	2.9	0.75	0.12			1463987.728	597045.764
SU1-11-027	20051130	Radium-228	2.1	0.5	0.21			1463987.728	597045.764
SU1-11-027	20051130	Thallium-208	0.498**	0.131	0.049			1463987.728	597045.764
SU1-11-027	20051130	Thorium-228	2.6	0.428	0.031			1463987.728	597045.764
SU1-11-027	20051130	Thorium-230	2.8	1.04	0.02			1463987.728	597045.764
SU1-11-027	20051130	Thorium-232	2.1	0.5	0.21			1463987.728	597045.764
SU1-11-027	20051130	Thorium-232	2.1	0.42	0.019			1463987.728	597045.764
SU1-11-027	20051130	Uranium-234	2	0.61	0.02			1463987.728	597045.764
SU1-11-027	20051130	Uranium-238	3.2	0.63	0.02			1463987.728	597045.764
SU1-11-028	20051130	Actinium-227	4.6	0.34	0.34		U	1464002.728	597045.764
SU1-11-028	20051130	Actinium-228	1.93	0.43	0.27			1464002.728	597045.764
SU1-11-028	20051130	Americium-241	63	0.14	0.14		U	1464002.728	597045.764
SU1-11-028	20051130	Bismuth-207	1.2	0.069	0.069		U	1464002.728	597045.764
SU1-11-028	20051130	Bismuth-210M	8.3	0.082	0.082		U	1464002.728	597045.764
SU1-11-028	20051130	Bismuth-214	1.17	0.69	0.16			1464002.728	597045.764
SU1-11-028	20051130	Cesium-137	3.8	0.074	0.074		U	1464002.728	597045.764
SU1-11-028	20051130	Cobalt-60	0.7	0.077	0.077		U	1464002.728	597045.764
SU1-11-028	20051130	Lead-210	7.4	1.9	1.9		U	1464002.728	597045.764

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-028	20051130	Lead-212	16.6	0.6	0.1			1464002.728	597045.764
SU1-11-028	20051130	Lead-214	8.9	0.62	0.13			1464002.728	597045.764
SU1-11-028	20051130	Potassium-40	47.8	9.3	0.5		J	1464002.728	597045.764
SU1-11-028	20051130	Protactinium-231	4	2.2	2.2		U	1464002.728	597045.764
SU1-11-028	20051130	Radium-224	2.6*	1.7	1.5			1464002.728	597045.764
SU1-11-028	20051130	Radium-226	2.9	0.69	0.16			1464002.728	597045.764
SU1-11-028	20051130	Radium-228	2.1	0.43	0.27			1464002.728	597045.764
SU1-11-028	20051130	Thallium-208	0.498**	0.164	0.08			1464002.728	597045.764
SU1-11-028	20051130	Thorium-228	2.6	0.64	0.06			1464002.728	597045.764
SU1-11-028	20051130	Thorium-230	2.8	0.88	0.06			1464002.728	597045.764
SU1-11-028	20051130	Thorium-232	2.1	0.66	0.06			1464002.728	597045.764
SU1-11-028	20051130	Thorium-232	2.1	0.43	0.27			1464002.728	597045.764
SU1-11-028	20051130	Uranium-234	2	0.73	0.02			1464002.728	597045.764
SU1-11-028	20051130	Uranium-238	3.2	0.74	0.02			1464002.728	597045.764
SU1-11-029	20051130	Actinium-227	4.6	0.29	0.29		U	1464017.728	597045.764
SU1-11-029	20051130	Actinium-228	1.93	0.6	0.24			1464017.728	597045.764
SU1-11-029	20051130	Americium-241	63	0.11	0.11		U	1464017.728	597045.764
SU1-11-029	20051130	Bismuth-207	1.2	0.061	0.061		U	1464017.728	597045.764
SU1-11-029	20051130	Bismuth-210M	8.3	0.063	0.063		U	1464017.728	597045.764
SU1-11-029	20051130	Bismuth-214	1.17	0.59	0.12			1464017.728	597045.764
SU1-11-029	20051130	Cesium-137	3.8	0.054	0.054		U	1464017.728	597045.764
SU1-11-029	20051130	Cobalt-60	0.7	0.072	0.072		U	1464017.728	597045.764
SU1-11-029	20051130	Lead-210	7.4	1.5	1.5		U	1464017.728	597045.764
SU1-11-029	20051130	Lead-212	16.6	0.415	0.12			1464017.728	597045.764
SU1-11-029	20051130	Lead-214	8.9	0.51	0.1			1464017.728	597045.764
SU1-11-029	20051130	Potassium-40	47.8	7.2	0.7		J	1464017.728	597045.764
SU1-11-029	20051130	Protactinium-231	4	1.9	1.9		U	1464017.728	597045.764
SU1-11-029	20051130	Radium-224	2.6*	1.6	1.2			1464017.728	597045.764
SU1-11-029	20051130	Radium-226	2.9	0.59	0.12			1464017.728	597045.764
SU1-11-029	20051130	Radium-228	2.1	0.6	0.24			1464017.728	597045.764
SU1-11-029	20051130	Thallium-208	0.498**	0.131	0.054			1464017.728	597045.764
SU1-11-029	20051130	Thorium-228	2.6	0.64	0.05			1464017.728	597045.764
SU1-11-029	20051130	Thorium-230	2.8	2	0.03			1464017.728	597045.764
SU1-11-029	20051130	Thorium-232	2.1	0.6	0.24			1464017.728	597045.764
SU1-11-029	20051130	Thorium-232	2.1	0.58	0.03			1464017.728	597045.764
SU1-11-029	20051130	Uranium-234	2	0.64	0.02			1464017.728	597045.764
SU1-11-029	20051130	Uranium-238	3.2	0.73	0.01			1464017.728	597045.764
SU1-11-030	20051130	Actinium-227	4.6	0.21	0.21		U	1464032.728	597045.764
SU1-11-030	20051130	Actinium-228	1.93	0.29	0.15			1464032.728	597045.764
SU1-11-030	20051130	Americium-241	63	0.08	0.08		U	1464032.728	597045.764
SU1-11-030	20051130	Bismuth-207	1.2	0.033	0.033		U	1464032.728	597045.764
SU1-11-030	20051130	Bismuth-210M	8.3	0.049	0.049		U	1464032.728	597045.764
SU1-11-030	20051130	Bismuth-214	1.17	0.57	0.09			1464032.728	597045.764
SU1-11-030	20051130	Cesium-137	3.8	0.047	0.047		U	1464032.728	597045.764
SU1-11-030	20051130	Cobalt-60	0.7	0.039	0.039		U	1464032.728	597045.764
SU1-11-030	20051130	Lead-210	7.4	1.1	1.1		U	1464032.728	597045.764
SU1-11-030	20051130	Lead-212	16.6	0.35	0.057			1464032.728	597045.764
SU1-11-030	20051130	Lead-214	8.9	0.61	0.08			1464032.728	597045.764
SU1-11-030	20051130	Potassium-40	47.8	6.8	0.5		J	1464032.728	597045.764
SU1-11-030	20051130	Protactinium-231	4	1.1	1.1		U	1464032.728	597045.764
SU1-11-030	20051130	Radium-224	2.6*	1.7	0.9			1464032.728	597045.764
SU1-11-030	20051130	Radium-226	2.9	0.57	0.09			1464032.728	597045.764
SU1-11-030	20051130	Radium-228	2.1	0.29	0.15			1464032.728	597045.764
SU1-11-030	20051130	Thallium-208	0.498**	0.149	0.035			1464032.728	597045.764
SU1-11-030	20051130	Thorium-228	2.6	0.77	0.09			1464032.728	597045.764
SU1-11-030	20051130	Thorium-230	2.8	1.03	0.07			1464032.728	597045.764
SU1-11-030	20051130	Thorium-232	2.1	0.59	0.07			1464032.728	597045.764
SU1-11-030	20051130	Thorium-232	2.1	0.29	0.15			1464032.728	597045.764
SU1-11-030	20051130	Uranium-234	2	0.77	0.02			1464032.728	597045.764

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-030	20051130	Uranium-238	3.2	0.91	0.01			1464032.728	597045.764
SU1-11-031	20051130	Actinium-227	4.6	0.48	0.31		J	1464047.728	597045.764
SU1-11-031	20051130	Actinium-228	1.93	1.31	0.16			1464047.728	597045.764
SU1-11-031	20051130	Americium-241	63	0.1	0.1		U	1464047.728	597045.764
SU1-11-031	20051130	Bismuth-207	1.2	0.043	0.043		U	1464047.728	597045.764
SU1-11-031	20051130	Bismuth-210M	8.3	0.057	0.057		U	1464047.728	597045.764
SU1-11-031	20051130	Bismuth-212	9.87	1.17	0.45			1464047.728	597045.764
SU1-11-031	20051130	Bismuth-214	1.17	0.73	0.1			1464047.728	597045.764
SU1-11-031	20051130	Cesium-137	3.8	0.054	0.054		U	1464047.728	597045.764
SU1-11-031	20051130	Cobalt-60	0.7	0.059	0.059		U	1464047.728	597045.764
SU1-11-031	20051130	Lead-210	7.4	1.47	1.3		J	1464047.728	597045.764
SU1-11-031	20051130	Lead-212	16.6	1.66	0.07			1464047.728	597045.764
SU1-11-031	20051130	Lead-214	8.9	0.73	0.08			1464047.728	597045.764
SU1-11-031	20051130	Potassium-40	47.8	10	0.4			1464047.728	597045.764
SU1-11-031	20051130	Protactinium-231	4	1.82	1.5			1464047.728	597045.764
SU1-11-031	20051130	Radium-224	2.6*	2.1	0.7			1464047.728	597045.764
SU1-11-031	20051130	Radium-226	2.9	0.73	0.1			1464047.728	597045.764
SU1-11-031	20051130	Radium-228	2.1	1.31	0.16			1464047.728	597045.764
SU1-11-031	20051130	Thallium-208	0.498**	0.565	0.043			1464047.728	597045.764
SU1-11-031	20051130	Thorium-228	2.6	1.99	0.04			1464047.728	597045.764
SU1-11-031	20051130	Thorium-230	2.8	0.89	0.02			1464047.728	597045.764
SU1-11-031	20051130	Thorium-232	2.1	1.31	0.16			1464047.728	597045.764
SU1-11-031	20051130	Thorium-232	2.1	1.62	0.02			1464047.728	597045.764
SU1-11-031	20051130	Uranium-234	2	0.77	0.03			1464047.728	597045.764
SU1-11-031	20051130	Uranium-238	3.2	0.78	0.02			1464047.728	597045.764
SU1-11-032	20051129	Actinium-227	4.6	0.28	0.28		U	1463950.228	597058.754
SU1-11-032	20051129	Actinium-228	1.93	0.87	0.21			1463950.228	597058.754
SU1-11-032	20051129	Americium-241	63	0.11	0.11		U	1463950.228	597058.754
SU1-11-032	20051129	Bismuth-207	1.2	0.041	0.041		U	1463950.228	597058.754
SU1-11-032	20051129	Bismuth-210M	8.3	0.054	0.054		U	1463950.228	597058.754
SU1-11-032	20051129	Bismuth-214	1.17	0.97	0.12			1463950.228	597058.754
SU1-11-032	20051129	Cesium-137	3.8	0.069	0.069		U	1463950.228	597058.754
SU1-11-032	20051129	Cobalt-60	0.7	0.056	0.056		U	1463950.228	597058.754
SU1-11-032	20051129	Lead-210	7.4	1.6	1.6		U	1463950.228	597058.754
SU1-11-032	20051129	Lead-212	16.6	0.75	0.07			1463950.228	597058.754
SU1-11-032	20051129	Lead-214	8.9	0.91	0.08			1463950.228	597058.754
SU1-11-032	20051129	Potassium-40	47.8	11.9	0.5			1463950.228	597058.754
SU1-11-032	20051129	Protactinium-231	4	1.6	1.6		U	1463950.228	597058.754
SU1-11-032	20051129	Radium-224	2.6*	2.1	0.8			1463950.228	597058.754
SU1-11-032	20051129	Radium-226	2.9	0.97	0.12			1463950.228	597058.754
SU1-11-032	20051129	Radium-228	2.1	0.87	0.21			1463950.228	597058.754
SU1-11-032	20051129	Thallium-208	0.498**	0.277	0.059			1463950.228	597058.754
SU1-11-032	20051129	Thorium-228	2.6	0.61	0.08			1463950.228	597058.754
SU1-11-032	20051129	Thorium-230	2.8	0.93	0.06			1463950.228	597058.754
SU1-11-032	20051129	Thorium-232	2.1	0.67	0.04			1463950.228	597058.754
SU1-11-032	20051129	Thorium-232	2.1	0.87	0.21			1463950.228	597058.754
SU1-11-032	20051129	Uranium-234	2	0.558	0.017			1463950.228	597058.754
SU1-11-032	20051129	Uranium-238	3.2	0.73	0.01			1463950.228	597058.754
SU1-11-033	20051129	Actinium-227	4.6	0.21	0.21		U	1463965.228	597058.754
SU1-11-033	20051129	Actinium-228	1.93	0.36	0.13			1463965.228	597058.754
SU1-11-033	20051129	Americium-241	63	0.08	0.08		U	1463965.228	597058.754
SU1-11-033	20051129	Bismuth-207	1.2	0.036	0.036		U	1463965.228	597058.754
SU1-11-033	20051129	Bismuth-210M	8.3	0.051	0.051		U	1463965.228	597058.754
SU1-11-033	20051129	Bismuth-214	1.17	0.59	0.07			1463965.228	597058.754
SU1-11-033	20051129	Cesium-137	3.8	0.039	0.039		U	1463965.228	597058.754
SU1-11-033	20051129	Cobalt-60	0.7	0.044	0.044		U	1463965.228	597058.754
SU1-11-033	20051129	Lead-210	7.4	1.2	1.2		U	1463965.228	597058.754
SU1-11-033	20051129	Lead-212	16.6	0.306	0.052			1463965.228	597058.754
SU1-11-033	20051129	Lead-214	8.9	0.58	0.06			1463965.228	597058.754

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-033	20051129	Potassium-40	47.8	7.1	0.3		J	1463965.228	597058.754
SU1-11-033	20051129	Protactinium-231	4	1.1	1.1		U	1463965.228	597058.754
SU1-11-033	20051129	Radium-224	2.6*	1.16	0.81			1463965.228	597058.754
SU1-11-033	20051129	Radium-226	2.9	0.59	0.07			1463965.228	597058.754
SU1-11-033	20051129	Radium-228	2.1	0.36	0.13			1463965.228	597058.754
SU1-11-033	20051129	Thallium-208	0.498**	0.152	0.037			1463965.228	597058.754
SU1-11-033	20051129	Thorium-228	2.6	0.36	0.04			1463965.228	597058.754
SU1-11-033	20051129	Thorium-230	2.8	0.89	0.03			1463965.228	597058.754
SU1-11-033	20051129	Thorium-232	2.1	0.314	0.027			1463965.228	597058.754
SU1-11-033	20051129	Thorium-232	2.1	0.36	0.13			1463965.228	597058.754
SU1-11-033	20051129	Uranium-234	2	0.64	0.02			1463965.228	597058.754
SU1-11-033	20051129	Uranium-238	3.2	0.69	0.02			1463965.228	597058.754
SU1-11-034	20051129	Actinium-227	4.6	0.2	0.19		J	1463980.228	597058.754
SU1-11-034	20051129	Actinium-228	1.93	0.34	0.12			1463980.228	597058.754
SU1-11-034	20051129	Americium-241	63	0.074	0.074		U	1463980.228	597058.754
SU1-11-034	20051129	Bismuth-207	1.2	0.034	0.034		U	1463980.228	597058.754
SU1-11-034	20051129	Bismuth-210M	8.3	0.042	0.042		U	1463980.228	597058.754
SU1-11-034	20051129	Bismuth-214	1.17	0.436	0.079			1463980.228	597058.754
SU1-11-034	20051129	Cesium-137	3.8	0.036	0.036		U	1463980.228	597058.754
SU1-11-034	20051129	Cobalt-60	0.7	0.04	0.04		U	1463980.228	597058.754
SU1-11-034	20051129	Lead-210	7.4	0.95	0.95		U	1463980.228	597058.754
SU1-11-034	20051129	Lead-212	16.6	0.296	0.046			1463980.228	597058.754
SU1-11-034	20051129	Lead-214	8.9	0.512	0.062			1463980.228	597058.754
SU1-11-034	20051129	Potassium-40	47.8	5.38	0.35		J	1463980.228	597058.754
SU1-11-034	20051129	Protactinium-231	4	0.99	0.99		U	1463980.228	597058.754
SU1-11-034	20051129	Radium-224	2.6*	1.38	0.49			1463980.228	597058.754
SU1-11-034	20051129	Radium-226	2.9	0.436	0.079			1463980.228	597058.754
SU1-11-034	20051129	Radium-228	2.1	0.34	0.12			1463980.228	597058.754
SU1-11-034	20051129	Thallium-208	0.498**	0.138	0.036			1463980.228	597058.754
SU1-11-034	20051129	Thorium-228	2.6	0.51	0.03			1463980.228	597058.754
SU1-11-034	20051129	Thorium-230	2.8	0.8	0.02			1463980.228	597058.754
SU1-11-034	20051129	Thorium-232	2.1	0.34	0.12			1463980.228	597058.754
SU1-11-034	20051129	Thorium-232	2.1	0.45	0.01			1463980.228	597058.754
SU1-11-034	20051129	Uranium-234	2	0.52	0.008			1463980.228	597058.754
SU1-11-034	20051129	Uranium-238	3.2	0.533	0.014			1463980.228	597058.754
SU1-11-035	20051130	Actinium-227	4.6	0.27	0.27		U	1463995.228	597058.754
SU1-11-035	20051130	Actinium-228	1.93	0.37	0.19			1463995.228	597058.754
SU1-11-035	20051130	Americium-241	63	0.096	0.096		U	1463995.228	597058.754
SU1-11-035	20051130	Bismuth-207	1.2	0.038	0.038		U	1463995.228	597058.754
SU1-11-035	20051130	Bismuth-210M	8.3	0.057	0.057		U	1463995.228	597058.754
SU1-11-035	20051130	Bismuth-214	1.17	0.95	0.08			1463995.228	597058.754
SU1-11-035	20051130	Cesium-137	3.8	0.046	0.046		U	1463995.228	597058.754
SU1-11-035	20051130	Cobalt-60	0.7	0.068	0.068		U	1463995.228	597058.754
SU1-11-035	20051130	Lead-210	7.4	1.3	1.3		U	1463995.228	597058.754
SU1-11-035	20051130	Lead-212	16.6	0.468	0.065			1463995.228	597058.754
SU1-11-035	20051130	Lead-214	8.9	0.76	0.09			1463995.228	597058.754
SU1-11-035	20051130	Potassium-40	47.8	9.2	0.6		J	1463995.228	597058.754
SU1-11-035	20051130	Protactinium-231	4	1.3	1.3		U	1463995.228	597058.754
SU1-11-035	20051130	Radium-224	2.6*	2	0.7			1463995.228	597058.754
SU1-11-035	20051130	Radium-226	2.9	0.95	0.08			1463995.228	597058.754
SU1-11-035	20051130	Radium-228	2.1	0.37	0.19			1463995.228	597058.754
SU1-11-035	20051130	Thallium-208	0.498**	0.136	0.044			1463995.228	597058.754
SU1-11-035	20051130	Thorium-228	2.6	0.5	0.05			1463995.228	597058.754
SU1-11-035	20051130	Thorium-230	2.8	1.05	0.04			1463995.228	597058.754
SU1-11-035	20051130	Thorium-232	2.1	0.37	0.19			1463995.228	597058.754
SU1-11-035	20051130	Thorium-232	2.1	0.44	0.04			1463995.228	597058.754
SU1-11-035	20051130	Thorium-234	176	0.96	0.87			1463995.228	597058.754
SU1-11-035	20051130	Uranium-234	2	0.61	0.03			1463995.228	597058.754
SU1-11-035	20051130	Uranium-238	3.2	0.72	0.02			1463995.228	597058.754

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-035	20051130	Uranium-238	3.2	0.96	0.87			1463995.228	597058.754
SU1-11-036	20051130	Actinium-227	4.6	0.2	0.2		U	1464010.228	597058.754
SU1-11-036	20051130	Actinium-228	1.93	0.31	0.13			1464010.228	597058.754
SU1-11-036	20051130	Americium-241	63	0.077	0.077		U	1464010.228	597058.754
SU1-11-036	20051130	Bismuth-207	1.2	0.028	0.028		U	1464010.228	597058.754
SU1-11-036	20051130	Bismuth-210M	8.3	0.042	0.042		U	1464010.228	597058.754
SU1-11-036	20051130	Bismuth-214	1.17	0.67	0.06			1464010.228	597058.754
SU1-11-036	20051130	Cesium-137	3.8	0.042	0.042		U	1464010.228	597058.754
SU1-11-036	20051130	Cobalt-60	0.7	0.041	0.041		U	1464010.228	597058.754
SU1-11-036	20051130	Lead-210	7.4	0.99	0.99		U	1464010.228	597058.754
SU1-11-036	20051130	Lead-212	16.6	0.33	0.05			1464010.228	597058.754
SU1-11-036	20051130	Lead-214	8.9	0.66	0.06			1464010.228	597058.754
SU1-11-036	20051130	Potassium-40	47.8	6.7	0.4		J	1464010.228	597058.754
SU1-11-036	20051130	Protactinium-231	4	1	1		U	1464010.228	597058.754
SU1-11-036	20051130	Radium-224	2.6*	1.04	0.53	J		1464010.228	597058.754
SU1-11-036	20051130	Radium-226	2.9	0.67	0.06	J		1464010.228	597058.754
SU1-11-036	20051130	Radium-228	2.1	0.31	0.13			1464010.228	597058.754
SU1-11-036	20051130	Thallium-208	0.498**	0.148	0.037			1464010.228	597058.754
SU1-11-036	20051130	Thorium-228	2.6	0.35	0.14			1464010.228	597058.754
SU1-11-036	20051130	Thorium-230	2.8	0.94	0.07			1464010.228	597058.754
SU1-11-036	20051130	Thorium-232	2.1	0.31	0.13			1464010.228	597058.754
SU1-11-036	20051130	Thorium-232	2.1	0.41	0.07			1464010.228	597058.754
SU1-11-036	20051130	Uranium-234	2	0.63	0.01			1464010.228	597058.754
SU1-11-036	20051130	Uranium-238	3.2	0.67	0.02			1464010.228	597058.754
SU1-11-038	20051129	Actinium-227	4.6	0.28	0.28		U	1463957.728	597071.745
SU1-11-038	20051129	Actinium-228	1.93	0.65	0.19			1463957.728	597071.745
SU1-11-038	20051129	Americium-241	63	0.1	0.1		U	1463957.728	597071.745
SU1-11-038	20051129	Bismuth-207	1.2	0.043	0.043		U	1463957.728	597071.745
SU1-11-038	20051129	Bismuth-210M	8.3	0.055	0.055		U	1463957.728	597071.745
SU1-11-038	20051129	Bismuth-212	9.87	0.48	0.42			1463957.728	597071.745
SU1-11-038	20051129	Bismuth-214	1.17	1.19	0.09			1463957.728	597071.745
SU1-11-038	20051129	Cesium-137	3.8	0.057	0.057		U	1463957.728	597071.745
SU1-11-038	20051129	Cobalt-60	0.7	0.059	0.059		U	1463957.728	597071.745
SU1-11-038	20051129	Lead-210	7.4	1.1	1		J	1463957.728	597071.745
SU1-11-038	20051129	Lead-212	16.6	0.84	0.06			1463957.728	597071.745
SU1-11-038	20051129	Lead-214	8.9	1.18	0.08			1463957.728	597071.745
SU1-11-038	20051129	Potassium-40	47.8	16.7	0.5			1463957.728	597071.745
SU1-11-038	20051129	Protactinium-231	4	1.3	1.3		U	1463957.728	597071.745
SU1-11-038	20051129	Radium-224	2.6*	2.6	0.7			1463957.728	597071.745
SU1-11-038	20051129	Radium-226	2.9	1.19	0.09			1463957.728	597071.745
SU1-11-038	20051129	Radium-228	2.1	0.65	0.19			1463957.728	597071.745
SU1-11-038	20051129	Thallium-208	0.498**	0.241	0.051			1463957.728	597071.745
SU1-11-038	20051129	Thorium-228	2.6	0.88	0.04			1463957.728	597071.745
SU1-11-038	20051129	Thorium-230	2.8	1.33	0.03			1463957.728	597071.745
SU1-11-038	20051129	Thorium-232	2.1	0.71	0.01			1463957.728	597071.745
SU1-11-038	20051129	Thorium-232	2.1	0.65	0.19			1463957.728	597071.745
SU1-11-038	20051129	Thorium-234	176	1.44	0.87			1463957.728	597071.745
SU1-11-038	20051129	Uranium-234	2	0.71	0.02			1463957.728	597071.745
SU1-11-038	20051129	Uranium-238	3.2	0.89	0.009			1463957.728	597071.745
SU1-11-038	20051129	Uranium-238	3.2	1.44	0.87			1463957.728	597071.745
SU1-11-039	20051129	Actinium-227	4.6	0.38	0.3		J	1463972.728	597071.745
SU1-11-039	20051129	Actinium-228	1.93	0.89	0.18			1463972.728	597071.745
SU1-11-039	20051129	Americium-241	63	0.11	0.11		U	1463972.728	597071.745
SU1-11-039	20051129	Bismuth-207	1.2	0.045	0.045		U	1463972.728	597071.745
SU1-11-039	20051129	Bismuth-210M	8.3	0.058	0.058		U	1463972.728	597071.745
SU1-11-039	20051129	Bismuth-212	9.87	0.96	0.45			1463972.728	597071.745
SU1-11-039	20051129	Bismuth-214	1.17	0.69	0.08			1463972.728	597071.745
SU1-11-039	20051129	Cesium-137	3.8	0.051	0.051		U	1463972.728	597071.745
SU1-11-039	20051129	Cobalt-60	0.7	0.05	0.05		U	1463972.728	597071.745

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-039	20051129	Lead-210	7.4	1.2	1.2		U	1463972.728	597071.745
SU1-11-039	20051129	Lead-212	16.6	1.25	0.06			1463972.728	597071.745
SU1-11-039	20051129	Lead-214	8.9	0.71	0.09			1463972.728	597071.745
SU1-11-039	20051129	Potassium-40	47.8	8.3	0.5		J	1463972.728	597071.745
SU1-11-039	20051129	Protactinium-231	4	2.39	1.6			1463972.728	597071.745
SU1-11-039	20051129	Radium-224	2.6*	1.9	0.7			1463972.728	597071.745
SU1-11-039	20051129	Radium-226	2.9	0.69	0.08			1463972.728	597071.745
SU1-11-039	20051129	Radium-228	2.1	0.89	0.18			1463972.728	597071.745
SU1-11-039	20051129	Thallium-208	0.498**	0.379	0.046			1463972.728	597071.745
SU1-11-039	20051129	Thorium-228	2.6	2.21	0.05			1463972.728	597071.745
SU1-11-039	20051129	Thorium-230	2.8	1.21	0.02			1463972.728	597071.745
SU1-11-039	20051129	Thorium-232	2.1	**2.39**	0.04			1463972.728	597071.745
SU1-11-039	20051129	Thorium-232	2.1	0.89	0.18			1463972.728	597071.745
SU1-11-039	20051129	Uranium-234	2	0.75	0.02			1463972.728	597071.745
SU1-11-039	20051129	Uranium-238	3.2	0.85	0.009			1463972.728	597071.745
SU1-11-040	20051130	Actinium-227	4.6	0.28	0.28		U	1463987.728	597071.745
SU1-11-040	20051130	Actinium-228	1.93	0.48	0.2			1463987.728	597071.745
SU1-11-040	20051130	Americium-241	63	0.11	0.11		U	1463987.728	597071.745
SU1-11-040	20051130	Bismuth-207	1.2	0.046	0.046		U	1463987.728	597071.745
SU1-11-040	20051130	Bismuth-210M	8.3	0.057	0.057		U	1463987.728	597071.745
SU1-11-040	20051130	Bismuth-214	1.17	0.66	0.1			1463987.728	597071.745
SU1-11-040	20051130	Cesium-137	3.8	0.064	0.064		U	1463987.728	597071.745
SU1-11-040	20051130	Cobalt-60	0.7	0.072	0.072		U	1463987.728	597071.745
SU1-11-040	20051130	Lead-210	7.4	1.4	1.4		U	1463987.728	597071.745
SU1-11-040	20051130	Lead-212	16.6	0.463	0.076			1463987.728	597071.745
SU1-11-040	20051130	Lead-214	8.9	0.72	0.08			1463987.728	597071.745
SU1-11-040	20051130	Potassium-40	47.8	8.7	0.5		J	1463987.728	597071.745
SU1-11-040	20051130	Protactinium-231	4	1.6	1.6		U	1463987.728	597071.745
SU1-11-040	20051130	Radium-224	2.6*	1.27	0.81			1463987.728	597071.745
SU1-11-040	20051130	Radium-226	2.9	0.66	0.1			1463987.728	597071.745
SU1-11-040	20051130	Radium-228	2.1	0.48	0.2			1463987.728	597071.745
SU1-11-040	20051130	Thallium-208	0.498**	0.16	0.054			1463987.728	597071.745
SU1-11-040	20051130	Thorium-228	2.6	0.46	0.04			1463987.728	597071.745
SU1-11-040	20051130	Thorium-230	2.8	0.86	0.03			1463987.728	597071.745
SU1-11-040	20051130	Thorium-232	2.1	0.322	0.032			1463987.728	597071.745
SU1-11-040	20051130	Thorium-232	2.1	0.48	0.2			1463987.728	597071.745
SU1-11-040	20051130	Uranium-234	2	0.63	0.03			1463987.728	597071.745
SU1-11-040	20051130	Uranium-238	3.2	0.62	0.01			1463987.728	597071.745
SU1-11-041	20051130	Actinium-227	4.6	0.3	0.3		U	1464002.728	597071.745
SU1-11-041	20051130	Americium-241	63	0.13	0.13		U	1464002.728	597071.745
SU1-11-041	20051130	Bismuth-207	1.2	0.06	0.06		U	1464002.728	597071.745
SU1-11-041	20051130	Bismuth-210M	8.3	0.075	0.075		U	1464002.728	597071.745
SU1-11-041	20051130	Bismuth-214	1.17	1	0.1			1464002.728	597071.745
SU1-11-041	20051130	Cesium-137	3.8	0.074	0.074		U	1464002.728	597071.745
SU1-11-041	20051130	Cobalt-60	0.7	0.076	0.076		U	1464002.728	597071.745
SU1-11-041	20051130	Lead-210	7.4	1.9	1.9		U	1464002.728	597071.745
SU1-11-041	20051130	Lead-212	16.6	0.38	0.12			1464002.728	597071.745
SU1-11-041	20051130	Lead-214	8.9	0.85	0.12			1464002.728	597071.745
SU1-11-041	20051130	Potassium-40	47.8	8.8	0.8		J	1464002.728	597071.745
SU1-11-041	20051130	Protactinium-231	4	1.9	1.9		U	1464002.728	597071.745
SU1-11-041	20051130	Radium-224	2.6*	1.9	1.4			1464002.728	597071.745
SU1-11-041	20051130	Radium-226	2.9	1	0.1			1464002.728	597071.745
SU1-11-041	20051130	Thallium-208	0.498**	0.148	0.058			1464002.728	597071.745
SU1-11-041	20051130	Thorium-228	2.6	0.51	0.04			1464002.728	597071.745
SU1-11-041	20051130	Thorium-230	2.8	0.97	0.02			1464002.728	597071.745
SU1-11-041	20051130	Thorium-232	2.1	0.47	0.04			1464002.728	597071.745
SU1-11-041	20051130	Uranium-234	2	0.67	0.03			1464002.728	597071.745
SU1-11-041	20051130	Uranium-238	3.2	0.86	0.02			1464002.728	597071.745
SU1-11-043	20051129	Actinium-227	4.6	0.31	0.31		U	1463950.228	597084.735

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-043	20051129	Actinium-228	1.93	0.68	0.2			1463950.228	597084.735
SU1-11-043	20051129	Americium-241	63	0.11	0.11		U	1463950.228	597084.735
SU1-11-043	20051129	Bismuth-207	1.2	0.046	0.046		U	1463950.228	597084.735
SU1-11-043	20051129	Bismuth-210M	8.3	0.061	0.061		U	1463950.228	597084.735
SU1-11-043	20051129	Bismuth-212	9.87	1.03	0.45			1463950.228	597084.735
SU1-11-043	20051129	Bismuth-214	1.17	1.01	0.1			1463950.228	597084.735
SU1-11-043	20051129	Cesium-137	3.8	0.075	0.075		U	1463950.228	597084.735
SU1-11-043	20051129	Cobalt-60	0.7	0.07	0.07		U	1463950.228	597084.735
SU1-11-043	20051129	Lead-210	7.4	1.2	1.2		U	1463950.228	597084.735
SU1-11-043	20051129	Lead-212	16.6	0.71	0.08			1463950.228	597084.735
SU1-11-043	20051129	Lead-214	8.9	1.02	0.1			1463950.228	597084.735
SU1-11-043	20051129	Potassium-40	47.8	12.7	0.6			1463950.228	597084.735
SU1-11-043	20051129	Protactinium-231	4	1.7	1.7		U	1463950.228	597084.735
SU1-11-043	20051129	Radium-224	2.6*	2.2	0.9			1463950.228	597084.735
SU1-11-043	20051129	Radium-226	2.9	1.01	0.1			1463950.228	597084.735
SU1-11-043	20051129	Radium-228	2.1	0.68	0.2			1463950.228	597084.735
SU1-11-043	20051129	Thallium-208	0.498**	0.26	0.059			1463950.228	597084.735
SU1-11-043	20051129	Thorium-228	2.6	0.62	0.03			1463950.228	597084.735
SU1-11-043	20051129	Thorium-230	2.8	1.03	0.03			1463950.228	597084.735
SU1-11-043	20051129	Thorium-232	2.1	0.62	0.03			1463950.228	597084.735
SU1-11-043	20051129	Thorium-232	2.1	0.68	0.2			1463950.228	597084.735
SU1-11-043	20051129	Uranium-234	2	0.57	0.02			1463950.228	597084.735
SU1-11-043	20051129	Uranium-238	3.2	0.71	0.02			1463950.228	597084.735
SU1-11-044	20051129	Actinium-227	4.6	0.2	0.2		U	1463965.228	597084.735
SU1-11-044	20051129	Actinium-228	1.93	0.37	0.15			1463965.228	597084.735
SU1-11-044	20051129	Americium-241	63	0.074	0.074		U	1463965.228	597084.735
SU1-11-044	20051129	Bismuth-207	1.2	0.034	0.034		U	1463965.228	597084.735
SU1-11-044	20051129	Bismuth-210M	8.3	0.047	0.047		U	1463965.228	597084.735
SU1-11-044	20051129	Bismuth-214	1.17	0.73	0.07			1463965.228	597084.735
SU1-11-044	20051129	Cesium-137	3.8	0.044	0.044		U	1463965.228	597084.735
SU1-11-044	20051129	Cobalt-60	0.7	0.054	0.054		U	1463965.228	597084.735
SU1-11-044	20051129	Lead-210	7.4	0.74	0.74		U	1463965.228	597084.735
SU1-11-044	20051129	Lead-212	16.6	0.381	0.054			1463965.228	597084.735
SU1-11-044	20051129	Lead-214	8.9	0.76	0.06			1463965.228	597084.735
SU1-11-044	20051129	Potassium-40	47.8	10	0.3			1463965.228	597084.735
SU1-11-044	20051129	Protactinium-231	4	0.94	0.94		U	1463965.228	597084.735
SU1-11-044	20051129	Radium-224	2.6*	1.7	0.8			1463965.228	597084.735
SU1-11-044	20051129	Radium-226	2.9	0.73	0.07			1463965.228	597084.735
SU1-11-044	20051129	Radium-228	2.1	0.37	0.15			1463965.228	597084.735
SU1-11-044	20051129	Thallium-208	0.498**	0.129	0.039			1463965.228	597084.735
SU1-11-044	20051129	Thorium-228	2.6	0.49	0.03			1463965.228	597084.735
SU1-11-044	20051129	Thorium-230	2.8	1.12	0.01			1463965.228	597084.735
SU1-11-044	20051129	Thorium-232	2.1	0.52	0.02			1463965.228	597084.735
SU1-11-044	20051129	Thorium-232	2.1	0.37	0.15			1463965.228	597084.735
SU1-11-044	20051129	Uranium-234	2	0.64	0.02			1463965.228	597084.735
SU1-11-044	20051129	Uranium-238	3.2	0.88	0.01			1463965.228	597084.735
SU1-11-045	20051129	Actinium-227	4.6	0.23	0.23		U	1463980.228	597084.735
SU1-11-045	20051129	Actinium-228	1.93	0.57	0.14			1463980.228	597084.735
SU1-11-045	20051129	Americium-241	63	0.088	0.088		U	1463980.228	597084.735
SU1-11-045	20051129	Bismuth-207	1.2	0.038	0.038		U	1463980.228	597084.735
SU1-11-045	20051129	Bismuth-210M	8.3	0.048	0.048		U	1463980.228	597084.735
SU1-11-045	20051129	Bismuth-214	1.17	0.6	0.08			1463980.228	597084.735
SU1-11-045	20051129	Cesium-137	3.8	0.048	0.048		U	1463980.228	597084.735
SU1-11-045	20051129	Cobalt-60	0.7	0.051	0.051		U	1463980.228	597084.735
SU1-11-045	20051129	Lead-210	7.4	1.1	1.1		U	1463980.228	597084.735
SU1-11-045	20051129	Lead-212	16.6	0.512	0.061			1463980.228	597084.735
SU1-11-045	20051129	Lead-214	8.9	0.49	0.07			1463980.228	597084.735
SU1-11-045	20051129	Potassium-40	47.8	5.9	0.3		J	1463980.228	597084.735
SU1-11-045	20051129	Protactinium-231	4	1.4	1.4		U	1463980.228	597084.735

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-045	20051129	Radium-224	2.6*	0.99	0.65			1463980.228	597084.735
SU1-11-045	20051129	Radium-226	2.9	0.6	0.08			1463980.228	597084.735
SU1-11-045	20051129	Radium-228	2.1	0.57	0.14			1463980.228	597084.735
SU1-11-045	20051129	Thallium-208	0.498**	0.182	0.043			1463980.228	597084.735
SU1-11-045	20051129	Thorium-228	2.6	1.05	0.02			1463980.228	597084.735
SU1-11-045	20051129	Thorium-230	2.8	1.06	0.03			1463980.228	597084.735
SU1-11-045	20051129	Thorium-232	2.1	0.57	0.14			1463980.228	597084.735
SU1-11-045	20051129	Thorium-232	2.1	0.88	0.01			1463980.228	597084.735
SU1-11-045	20051129	Uranium-234	2	0.64	0.02			1463980.228	597084.735
SU1-11-045	20051129	Uranium-238	3.2	0.69	0.009			1463980.228	597084.735
SU1-11-046	20051130	Actinium-227	4.6	0.42	0.42		U	1463995.228	597084.735
SU1-11-046	20051130	Actinium-228	1.93	0.66	0.29			1463995.228	597084.735
SU1-11-046	20051130	Americium-241	63	0.16	0.16		U	1463995.228	597084.735
SU1-11-046	20051130	Bismuth-207	1.2	0.053	0.053		U	1463995.228	597084.735
SU1-11-046	20051130	Bismuth-210M	8.3	0.091	0.091		U	1463995.228	597084.735
SU1-11-046	20051130	Bismuth-214	1.17	0.9	0.15			1463995.228	597084.735
SU1-11-046	20051130	Cesium-137	3.8	0.083	0.083		U	1463995.228	597084.735
SU1-11-046	20051130	Cobalt-60	0.7	0.08	0.08		U	1463995.228	597084.735
SU1-11-046	20051130	Lead-210	7.4	2	2		U	1463995.228	597084.735
SU1-11-046	20051130	Lead-212	16.6	0.49	0.11			1463995.228	597084.735
SU1-11-046	20051130	Lead-214	8.9	1.08	0.13			1463995.228	597084.735
SU1-11-046	20051130	Potassium-40	47.8	10.9	0.7			1463995.228	597084.735
SU1-11-046	20051130	Protactinium-231	4	2.1	2.1		U	1463995.228	597084.735
SU1-11-046	20051130	Radium-224	2.6*	2.6	1.8			1463995.228	597084.735
SU1-11-046	20051130	Radium-226	2.9	0.9	0.15			1463995.228	597084.735
SU1-11-046	20051130	Radium-228	2.1	0.66	0.29			1463995.228	597084.735
SU1-11-046	20051130	Thallium-208	0.498**	0.27	0.074			1463995.228	597084.735
SU1-11-046	20051130	Thorium-228	2.6	0.57	0.05			1463995.228	597084.735
SU1-11-046	20051130	Thorium-230	2.8	1.12	0.04			1463995.228	597084.735
SU1-11-046	20051130	Thorium-232	2.1	0.6	0.04			1463995.228	597084.735
SU1-11-046	20051130	Thorium-232	2.1	0.66	0.29			1463995.228	597084.735
SU1-11-046	20051130	Uranium-234	2	1.02	0.03			1463995.228	597084.735
SU1-11-046	20051130	Uranium-238	3.2	1.05	0.02			1463995.228	597084.735
SU1-11-047	20051130	Actinium-227	4.6	0.4	0.4		U	1464010.228	597084.735
SU1-11-047	20051130	Actinium-228	1.93	0.85	0.25			1464010.228	597084.735
SU1-11-047	20051130	Americium-241	63	0.14	0.14		U	1464010.228	597084.735
SU1-11-047	20051130	Bismuth-207	1.2	0.049	0.049		U	1464010.228	597084.735
SU1-11-047	20051130	Bismuth-210M	8.3	0.082	0.082		U	1464010.228	597084.735
SU1-11-047	20051130	Bismuth-214	1.17	0.71	0.13			1464010.228	597084.735
SU1-11-047	20051130	Cesium-137	3.8	0.094	0.094		U	1464010.228	597084.735
SU1-11-047	20051130	Cobalt-60	0.7	0.068	0.068		U	1464010.228	597084.735
SU1-11-047	20051130	Lead-210	7.4	1.9	1.9		U	1464010.228	597084.735
SU1-11-047	20051130	Lead-212	16.6	0.52	0.11			1464010.228	597084.735
SU1-11-047	20051130	Lead-214	8.9	0.86	0.12			1464010.228	597084.735
SU1-11-047	20051130	Potassium-40	47.8	11.3	0.6			1464010.228	597084.735
SU1-11-047	20051130	Protactinium-231	4	2	2		U	1464010.228	597084.735
SU1-11-047	20051130	Radium-224	2.6*	1.8	1.5			1464010.228	597084.735
SU1-11-047	20051130	Radium-226	2.9	0.71	0.13			1464010.228	597084.735
SU1-11-047	20051130	Radium-228	2.1	0.85	0.25			1464010.228	597084.735
SU1-11-047	20051130	Thallium-208	0.498**	0.187	0.068			1464010.228	597084.735
SU1-11-047	20051130	Thorium-228	2.6	0.67	0.05			1464010.228	597084.735
SU1-11-047	20051130	Thorium-230	2.8	0.99	0.04			1464010.228	597084.735
SU1-11-047	20051130	Thorium-232	2.1	0.85	0.25			1464010.228	597084.735
SU1-11-047	20051130	Thorium-232	2.1	0.64	0.04			1464010.228	597084.735
SU1-11-047	20051130	Uranium-234	2	0.65	0.02			1464010.228	597084.735
SU1-11-047	20051130	Uranium-238	3.2	0.72	0.01			1464010.228	597084.735
SU1-11-048	20051129	Actinium-227	4.6	0.28	0.28		U	1463957.728	597097.726
SU1-11-048	20051129	Actinium-228	1.93	0.88	0.18			1463957.728	597097.726
SU1-11-048	20051129	Americium-241	63	0.098	0.098		U	1463957.728	597097.726

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-048	20051129	Bismuth-207	1.2	0.047	0.047		U	1463957.728	597097.726
SU1-11-048	20051129	Bismuth-210M	8.3	0.06	0.06		U	1463957.728	597097.726
SU1-11-048	20051129	Bismuth-212	9.87	0.75	0.45			1463957.728	597097.726
SU1-11-048	20051129	Bismuth-214	1.17	1.17	0.09			1463957.728	597097.726
SU1-11-048	20051129	Cesium-137	3.8	0.077	0.077		U	1463957.728	597097.726
SU1-11-048	20051129	Cobalt-60	0.7	0.072	0.072		U	1463957.728	597097.726
SU1-11-048	20051129	Lead-210	7.4	1.1	1.1		U	1463957.728	597097.726
SU1-11-048	20051129	Lead-212	16.6	0.81	0.07			1463957.728	597097.726
SU1-11-048	20051129	Lead-214	8.9	1.04	0.09			1463957.728	597097.726
SU1-11-048	20051129	Potassium-40	47.8	17.7	0.4			1463957.728	597097.726
SU1-11-048	20051129	Protactinium-231	4	1.5	1.5		U	1463957.728	597097.726
SU1-11-048	20051129	Radium-224	2.6*	2.6	1.2			1463957.728	597097.726
SU1-11-048	20051129	Radium-226	2.9	1.17	0.09			1463957.728	597097.726
SU1-11-048	20051129	Radium-228	2.1	0.88	0.18			1463957.728	597097.726
SU1-11-048	20051129	Thallium-208	0.498**	0.27	0.059			1463957.728	597097.726
SU1-11-048	20051129	Thorium-228	2.6	0.82	0.03			1463957.728	597097.726
SU1-11-048	20051129	Thorium-230	2.8	1.27	0.02			1463957.728	597097.726
SU1-11-048	20051129	Thorium-232	2.1	0.88	0.18			1463957.728	597097.726
SU1-11-048	20051129	Thorium-232	2.1	0.89	0.03			1463957.728	597097.726
SU1-11-048	20051129	Thorium-234	176	1.1	0.9			1463957.728	597097.726
SU1-11-048	20051129	Uranium-234	2	0.86	0.02			1463957.728	597097.726
SU1-11-048	20051129	Uranium-238	3.2	1.14	0.9			1463957.728	597097.726
SU1-11-048	20051129	Uranium-238	3.2	1	0.02			1463957.728	597097.726
SU1-11-049	20051129	Actinium-227	4.6	0.19	0.19		U	1463972.728	597097.726
SU1-11-049	20051129	Actinium-228	1.93	0.3	0.1			1463972.728	597097.726
SU1-11-049	20051129	Americium-241	63	0.063	0.063		U	1463972.728	597097.726
SU1-11-049	20051129	Bismuth-207	1.2	0.028	0.028		U	1463972.728	597097.726
SU1-11-049	20051129	Bismuth-210M	8.3	0.036	0.036		U	1463972.728	597097.726
SU1-11-049	20051129	Bismuth-214	1.17	0.41	0.071			1463972.728	597097.726
SU1-11-049	20051129	Cesium-137	3.8	0.037	0.037		U	1463972.728	597097.726
SU1-11-049	20051129	Cobalt-60	0.7	0.041	0.041		U	1463972.728	597097.726
SU1-11-049	20051129	Lead-210	7.4	0.85	0.85		U	1463972.728	597097.726
SU1-11-049	20051129	Lead-212	16.6	0.252	0.044			1463972.728	597097.726
SU1-11-049	20051129	Lead-214	8.9	0.5	0.06			1463972.728	597097.726
SU1-11-049	20051129	Potassium-40	47.8	4.53	0.32		J	1463972.728	597097.726
SU1-11-049	20051129	Protactinium-231	4	0.84	0.84		U	1463972.728	597097.726
SU1-11-049	20051129	Radium-224	2.6*	0.84	0.47			1463972.728	597097.726
SU1-11-049	20051129	Radium-226	2.9	0.41	0.071			1463972.728	597097.726
SU1-11-049	20051129	Radium-228	2.1	0.3	0.1			1463972.728	597097.726
SU1-11-049	20051129	Thallium-208	0.498**	0.05	0.034			1463972.728	597097.726
SU1-11-049	20051129	Thorium-228	2.6	0.4	0.05			1463972.728	597097.726
SU1-11-049	20051129	Thorium-230	2.8	0.98	0.04			1463972.728	597097.726
SU1-11-049	20051129	Thorium-232	2.1	0.3	0.1			1463972.728	597097.726
SU1-11-049	20051129	Thorium-232	2.1	0.42	0.04			1463972.728	597097.726
SU1-11-049	20051129	Uranium-234	2	0.415	0.026			1463972.728	597097.726
SU1-11-049	20051129	Uranium-238	3.2	0.47	0.02			1463972.728	597097.726
SU1-11-049D	20051129	Actinium-227	4.6	0.18	0.18		U	1463972.728	597097.726
SU1-11-049D	20051129	Actinium-228	1.93	0.27	0.11			1463972.728	597097.726
SU1-11-049D	20051129	Americium-241	63	0.069	0.069		U	1463972.728	597097.726
SU1-11-049D	20051129	Bismuth-207	1.2	0.033	0.033		U	1463972.728	597097.726
SU1-11-049D	20051129	Bismuth-210M	8.3	0.037	0.037		U	1463972.728	597097.726
SU1-11-049D	20051129	Bismuth-214	1.17	0.48	0.07			1463972.728	597097.726
SU1-11-049D	20051129	Cesium-137	3.8	0.043	0.043		U	1463972.728	597097.726
SU1-11-049D	20051129	Cobalt-60	0.7	0.039	0.039		U	1463972.728	597097.726
SU1-11-049D	20051129	Lead-210	7.4	0.93	0.93		U	1463972.728	597097.726
SU1-11-049D	20051129	Lead-212	16.6	0.227	0.05			1463972.728	597097.726
SU1-11-049D	20051129	Lead-214	8.9	0.42	0.07			1463972.728	597097.726
SU1-11-049D	20051129	Potassium-40	47.8	4.61	0.41		J	1463972.728	597097.726
SU1-11-049D	20051129	Protactinium-231	4	0.93	0.93		U	1463972.728	597097.726

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-049D	20051129	Radium-224	2.6*	1.29	0.77			1463972.728	597097.726
SU1-11-049D	20051129	Radium-226	2.9	0.48	0.07			1463972.728	597097.726
SU1-11-049D	20051129	Radium-228	2.1	0.27	0.11			1463972.728	597097.726
SU1-11-049D	20051129	Thallium-208	0.498**	0.082	0.032			1463972.728	597097.726
SU1-11-049D	20051129	Thorium-228	2.6	0.38	0.03			1463972.728	597097.726
SU1-11-049D	20051129	Thorium-230	2.8	0.92	0.01			1463972.728	597097.726
SU1-11-049D	20051129	Thorium-232	2.1	0.27	0.11			1463972.728	597097.726
SU1-11-049D	20051129	Thorium-232	2.1	0.329	0.023			1463972.728	597097.726
SU1-11-049D	20051129	Uranium-234	2	0.69	0.03			1463972.728	597097.726
SU1-11-049D	20051129	Uranium-238	3.2	0.64	0.03			1463972.728	597097.726
SU1-11-050	20051130	Actinium-227	4.6	0.28	0.28		U	1463987.728	597097.726
SU1-11-050	20051130	Actinium-228	1.93	0.51	0.19			1463987.728	597097.726
SU1-11-050	20051130	Americium-241	63	0.11	0.11		U	1463987.728	597097.726
SU1-11-050	20051130	Bismuth-207	1.2	0.04	0.04		U	1463987.728	597097.726
SU1-11-050	20051130	Bismuth-210M	8.3	0.059	0.059		U	1463987.728	597097.726
SU1-11-050	20051130	Bismuth-214	1.17	0.84	0.09			1463987.728	597097.726
SU1-11-050	20051130	Cesium-137	3.8	0.051	0.051		U	1463987.728	597097.726
SU1-11-050	20051130	Cobalt-60	0.7	0.067	0.067		U	1463987.728	597097.726
SU1-11-050	20051130	Lead-210	7.4	1.3	1.3		U	1463987.728	597097.726
SU1-11-050	20051130	Lead-212	16.6	0.448	0.071			1463987.728	597097.726
SU1-11-050	20051130	Lead-214	8.9	0.85	0.09			1463987.728	597097.726
SU1-11-050	20051130	Potassium-40	47.8	9.2	0.5		J	1463987.728	597097.726
SU1-11-050	20051130	Protactinium-231	4	1.5	1.5		U	1463987.728	597097.726
SU1-11-050	20051130	Radium-224	2.6*	1.58	0.76			1463987.728	597097.726
SU1-11-050	20051130	Radium-226	2.9	0.84	0.09			1463987.728	597097.726
SU1-11-050	20051130	Radium-228	2.1	0.51	0.19			1463987.728	597097.726
SU1-11-050	20051130	Thallium-208	0.498**	0.192	0.052			1463987.728	597097.726
SU1-11-050	20051130	Thorium-228	2.6	0.48	0.03			1463987.728	597097.726
SU1-11-050	20051130	Thorium-230	2.8	1.01	0.04			1463987.728	597097.726
SU1-11-050	20051130	Thorium-232	2.1	0.59	0.02			1463987.728	597097.726
SU1-11-050	20051130	Thorium-232	2.1	0.51	0.19			1463987.728	597097.726
SU1-11-050	20051130	Uranium-234	2	0.81	0.03			1463987.728	597097.726
SU1-11-050	20051130	Uranium-238	3.2	0.51	0.03			1463987.728	597097.726
SU1-11-051	20051130	Actinium-227	4.6	0.3	0.3		U	1464002.728	597097.726
SU1-11-051	20051130	Actinium-228	1.93	0.45	0.19			1464002.728	597097.726
SU1-11-051	20051130	Americium-241	63	0.11	0.11		U	1464002.728	597097.726
SU1-11-051	20051130	Bismuth-207	1.2	0.045	0.045		U	1464002.728	597097.726
SU1-11-051	20051130	Bismuth-210M	8.3	0.06	0.06		U	1464002.728	597097.726
SU1-11-051	20051130	Bismuth-214	1.17	0.99	0.1			1464002.728	597097.726
SU1-11-051	20051130	Cesium-137	3.8	0.057	0.057		U	1464002.728	597097.726
SU1-11-051	20051130	Cobalt-60	0.7	0.064	0.064		U	1464002.728	597097.726
SU1-11-051	20051130	Lead-210	7.4	1.5	1.5		U	1464002.728	597097.726
SU1-11-051	20051130	Lead-212	16.6	0.66	0.07			1464002.728	597097.726
SU1-11-051	20051130	Lead-214	8.9	0.93	0.1			1464002.728	597097.726
SU1-11-051	20051130	Potassium-40	47.8	13	0.5			1464002.728	597097.726
SU1-11-051	20051130	Protactinium-231	4	1.6	1.6		U	1464002.728	597097.726
SU1-11-051	20051130	Radium-224	2.6*	3.5	1.3			1464002.728	597097.726
SU1-11-051	20051130	Radium-226	2.9	0.99	0.1			1464002.728	597097.726
SU1-11-051	20051130	Radium-228	2.1	0.45	0.19			1464002.728	597097.726
SU1-11-051	20051130	Thallium-208	0.498**	0.213	0.052			1464002.728	597097.726
SU1-11-051	20051130	Thorium-228	2.6	0.41	0.03			1464002.728	597097.726
SU1-11-051	20051130	Thorium-230	2.8	1.02	0.02			1464002.728	597097.726
SU1-11-051	20051130	Thorium-232	2.1	0.42	0.02			1464002.728	597097.726
SU1-11-051	20051130	Thorium-232	2.1	0.45	0.19			1464002.728	597097.726
SU1-11-051	20051130	Uranium-234	2	0.68	0.02			1464002.728	597097.726
SU1-11-051	20051130	Uranium-238	3.2	0.77	0.01			1464002.728	597097.726
SU1-11-054	20051201	Actinium-227	4.6	0.32	0.32		U	1463980.228	597110.716
SU1-11-054	20051201	Actinium-228	1.93	0.67	0.23			1463980.228	597110.716
SU1-11-054	20051201	Americium-241	63	0.13	0.13		U	1463980.228	597110.716

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-054	20051201	Bismuth-207	1.2	0.054	0.054		U	1463980.228	597110.716
SU1-11-054	20051201	Bismuth-210M	8.3	0.069	0.069		U	1463980.228	597110.716
SU1-11-054	20051201	Bismuth-214	1.17	0.76	0.13			1463980.228	597110.716
SU1-11-054	20051201	Cesium-137	3.8	0.066	0.066		U	1463980.228	597110.716
SU1-11-054	20051201	Cobalt-60	0.7	0.097	0.097		U	1463980.228	597110.716
SU1-11-054	20051201	Lead-210	7.4	1.6	1.6		U	1463980.228	597110.716
SU1-11-054	20051201	Lead-212	16.6	0.6	0.09			1463980.228	597110.716
SU1-11-054	20051201	Lead-214	8.9	0.75	0.09			1463980.228	597110.716
SU1-11-054	20051201	Potassium-40	47.8	8.6	0.7		J	1463980.228	597110.716
SU1-11-054	20051201	Protactinium-231	4	2	2		U	1463980.228	597110.716
SU1-11-054	20051201	Radium-224	2.6*	1.9	0.9	J		1463980.228	597110.716
SU1-11-054	20051201	Radium-226	2.9	0.76	0.13	J		1463980.228	597110.716
SU1-11-054	20051201	Radium-228	2.1	0.67	0.23			1463980.228	597110.716
SU1-11-054	20051201	Thallium-208	0.498**	0.211	0.067			1463980.228	597110.716
SU1-11-054	20051201	Thorium-228	2.6	0.72	0.05	J		1463980.228	597110.716
SU1-11-054	20051201	Thorium-230	2.8	1.1	0.03	J		1463980.228	597110.716
SU1-11-054	20051201	Thorium-232	2.1	0.74	0.02			1463980.228	597110.716
SU1-11-054	20051201	Thorium-232	2.1	0.67	0.23			1463980.228	597110.716
SU1-11-054	20051201	Uranium-234	2	0.56	0.02			1463980.228	597110.716
SU1-11-054	20051201	Uranium-238	3.2	0.67	0.04			1463980.228	597110.716
SU1-11-054D	20051201	Actinium-227	4.6	0.32	0.32		U	1463980.228	597110.716
SU1-11-054D	20051201	Actinium-228	1.93	0.78	0.23			1463980.228	597110.716
SU1-11-054D	20051201	Americium-241	63	0.13	0.13		U	1463980.228	597110.716
SU1-11-054D	20051201	Bismuth-207	1.2	0.052	0.052		U	1463980.228	597110.716
SU1-11-054D	20051201	Bismuth-210M	8.3	0.066	0.066		U	1463980.228	597110.716
SU1-11-054D	20051201	Bismuth-214	1.17	0.79	0.12			1463980.228	597110.716
SU1-11-054D	20051201	Cesium-137	3.8	0.07	0.07		U	1463980.228	597110.716
SU1-11-054D	20051201	Cobalt-60	0.7	0.097	0.097		U	1463980.228	597110.716
SU1-11-054D	20051201	Lead-210	7.4	1.4	1.4		U	1463980.228	597110.716
SU1-11-054D	20051201	Lead-212	16.6	0.82	0.09			1463980.228	597110.716
SU1-11-054D	20051201	Lead-214	8.9	0.9	0.1			1463980.228	597110.716
SU1-11-054D	20051201	Potassium-40	47.8	10.6	0.4			1463980.228	597110.716
SU1-11-054D	20051201	Protactinium-231	4	1.7	1.7		U	1463980.228	597110.716
SU1-11-054D	20051201	Radium-224	2.6*	2.4	1.4			1463980.228	597110.716
SU1-11-054D	20051201	Radium-226	2.9	0.79	0.12			1463980.228	597110.716
SU1-11-054D	20051201	Radium-228	2.1	0.78	0.23			1463980.228	597110.716
SU1-11-054D	20051201	Thallium-208	0.498**	0.24	0.076			1463980.228	597110.716
SU1-11-054D	20051201	Thorium-228	2.6	1.26	0.04			1463980.228	597110.716
SU1-11-054D	20051201	Thorium-230	2.8	0.99	0.02			1463980.228	597110.716
SU1-11-054D	20051201	Thorium-232	2.1	0.78	0.23			1463980.228	597110.716
SU1-11-054D	20051201	Thorium-232	2.1	1.05	0.03			1463980.228	597110.716
SU1-11-054D	20051201	Uranium-234	2	0.7	0.03			1463980.228	597110.716
SU1-11-054D	20051201	Uranium-238	3.2	0.65	0.02			1463980.228	597110.716
SU1-11-055	20051130	Actinium-227	4.6	0.26	0.26		U	1463995.228	597110.716
SU1-11-055	20051130	Actinium-228	1.93	1.48	0.15			1463995.228	597110.716
SU1-11-055	20051130	Americium-241	63	0.11	0.11		U	1463995.228	597110.716
SU1-11-055	20051130	Bismuth-207	1.2	0.044	0.044		U	1463995.228	597110.716
SU1-11-055	20051130	Bismuth-210M	8.3	0.12	0.063		U	1463995.228	597110.716
SU1-11-055	20051130	Bismuth-212	9.87	0.99	0.47			1463995.228	597110.716
SU1-11-055	20051130	Bismuth-214	1.17	0.74	0.1			1463995.228	597110.716
SU1-11-055	20051130	Cesium-137	3.8	0.053	0.053		U	1463995.228	597110.716
SU1-11-055	20051130	Cobalt-60	0.7	0.046	0.046		U	1463995.228	597110.716
SU1-11-055	20051130	Lead-210	7.4	1.3	1.3		U	1463995.228	597110.716
SU1-11-055	20051130	Lead-212	16.6	1.17	0.11			1463995.228	597110.716
SU1-11-055	20051130	Lead-214	8.9	0.7	0.08			1463995.228	597110.716
SU1-11-055	20051130	Potassium-40	47.8	9.4	0.5		J	1463995.228	597110.716
SU1-11-055	20051130	Protactinium-231	4	1.5	1.5		U	1463995.228	597110.716
SU1-11-055	20051130	Radium-224	2.6*	2.7	1.1	J		1463995.228	597110.716
SU1-11-055	20051130	Radium-226	2.9	0.74	0.1	J		1463995.228	597110.716

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-055	20051130	Radium-228	2.1	1.48	0.15			1463995.228	597110.716
SU1-11-055	20051130	Thallium-208	0.498**	0.492	0.05			1463995.228	597110.716
SU1-11-055	20051130	Thorium-228	2.6	2.36	0.03			1463995.228	597110.716
SU1-11-055	20051130	Thorium-230	2.8	1.38	0.02			1463995.228	597110.716
SU1-11-055	20051130	Thorium-232	2.1	1.48	0.15			1463995.228	597110.716
SU1-11-055	20051130	Thorium-232	2.1	**2.57**	0.02			1463995.228	597110.716
SU1-11-055	20051130	Uranium-234	2	0.94	0.03			1463995.228	597110.716
SU1-11-055	20051130	Uranium-238	3.2	1.03	0.03			1463995.228	597110.716
SU1-11-056	20051130	Actinium-227	4.6	0.33	0.33		U	1464010.228	597110.716
SU1-11-056	20051130	Actinium-228	1.93	1.24	0.21			1464010.228	597110.716
SU1-11-056	20051130	Americium-241	63	0.12	0.12		U	1464010.228	597110.716
SU1-11-056	20051130	Bismuth-207	1.2	0.046	0.046		U	1464010.228	597110.716
SU1-11-056	20051130	Bismuth-210M	8.3	0.065	0.065		U	1464010.228	597110.716
SU1-11-056	20051130	Bismuth-212	9.87	0.56	0.51			1464010.228	597110.716
SU1-11-056	20051130	Bismuth-214	1.17	1.22	0.11			1464010.228	597110.716
SU1-11-056	20051130	Cesium-137	3.8	0.068	0.068		U	1464010.228	597110.716
SU1-11-056	20051130	Cobalt-60	0.7	0.071	0.071		U	1464010.228	597110.716
SU1-11-056	20051130	Lead-210	7.4	1.5	1.5		U	1464010.228	597110.716
SU1-11-056	20051130	Lead-212	16.6	1.34	0.08			1464010.228	597110.716
SU1-11-056	20051130	Lead-214	8.9	1.07	0.09			1464010.228	597110.716
SU1-11-056	20051130	Potassium-40	47.8	15.9	0.5			1464010.228	597110.716
SU1-11-056	20051130	Protactinium-231	4	1.7	1.7		U	1464010.228	597110.716
SU1-11-056	20051130	Radium-224	2.6*	2.9	0.8			1464010.228	597110.716
SU1-11-056	20051130	Radium-226	2.9	1.22	0.11			1464010.228	597110.716
SU1-11-056	20051130	Radium-228	2.1	1.24	0.21			1464010.228	597110.716
SU1-11-056	20051130	Thallium-208	0.498**	0.404	0.056			1464010.228	597110.716
SU1-11-056	20051130	Thorium-228	2.6	1.01	0.03			1464010.228	597110.716
SU1-11-056	20051130	Thorium-230	2.8	1.27	0.01			1464010.228	597110.716
SU1-11-056	20051130	Thorium-232	2.1	1.24	0.21			1464010.228	597110.716
SU1-11-056	20051130	Thorium-232	2.1	1.03	0.02			1464010.228	597110.716
SU1-11-056	20051130	Thorium-234	176	1.4	1.1			1464010.228	597110.716
SU1-11-056	20051130	Uranium-234	2	0.89	0.02			1464010.228	597110.716
SU1-11-056	20051130	Uranium-238	3.2	0.84	0.02			1464010.228	597110.716
SU1-11-056	20051130	Uranium-238	3.2	1.4	1.1			1464010.228	597110.716
SU1-11-057	20051201	Actinium-227	4.6	0.31	0.31		U	1464025.228	597110.716
SU1-11-057	20051201	Actinium-228	1.93	0.39	0.15			1464025.228	597110.716
SU1-11-057	20051201	Americium-241	63	0.12	0.12		U	1464025.228	597110.716
SU1-11-057	20051201	Bismuth-207	1.2	0.053	0.053		U	1464025.228	597110.716
SU1-11-057	20051201	Bismuth-210M	8.3	0.069	0.069		U	1464025.228	597110.716
SU1-11-057	20051201	Bismuth-214	1.17	0.88	0.12			1464025.228	597110.716
SU1-11-057	20051201	Cesium-137	3.8	0.065	0.065		U	1464025.228	597110.716
SU1-11-057	20051201	Cobalt-60	0.7	0.087	0.087		U	1464025.228	597110.716
SU1-11-057	20051201	Lead-210	7.4	1.6	1.6		U	1464025.228	597110.716
SU1-11-057	20051201	Lead-212	16.6	0.468	0.091			1464025.228	597110.716
SU1-11-057	20051201	Lead-214	8.9	1.07	0.1			1464025.228	597110.716
SU1-11-057	20051201	Potassium-40	47.8	12.2	0.5			1464025.228	597110.716
SU1-11-057	20051201	Protactinium-231	4	1.7	1.7		U	1464025.228	597110.716
SU1-11-057	20051201	Radium-224	2.6*	2.5	1.4			1464025.228	597110.716
SU1-11-057	20051201	Radium-226	2.9	0.88	0.12			1464025.228	597110.716
SU1-11-057	20051201	Radium-228	2.1	0.39	0.15			1464025.228	597110.716
SU1-11-057	20051201	Thallium-208	0.498**	0.191	0.068			1464025.228	597110.716
SU1-11-057	20051201	Thorium-228	2.6	0.41	0.04			1464025.228	597110.716
SU1-11-057	20051201	Thorium-230	2.8	1.16	0.02			1464025.228	597110.716
SU1-11-057	20051201	Thorium-232	2.1	0.39	0.15			1464025.228	597110.716
SU1-11-057	20051201	Thorium-232	2.1	0.374	0.023			1464025.228	597110.716
SU1-11-057	20051201	Uranium-234	2	0.77	0.03			1464025.228	597110.716
SU1-11-057	20051201	Uranium-238	3.2	0.87	0.03			1464025.228	597110.716
SU1-11-058	20051129	Actinium-227	4.6	0.23	0.23		U	1463957.728	597123.706
SU1-11-058	20051129	Actinium-228	1.93	0.37	0.17			1463957.728	597123.706

Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-058	20051129	Americium-241	63	0.089	0.089		U	1463957.728	597123.706
SU1-11-058	20051129	Bismuth-207	1.2	0.038	0.038		U	1463957.728	597123.706
SU1-11-058	20051129	Bismuth-210M	8.3	0.053	0.053		U	1463957.728	597123.706
SU1-11-058	20051129	Bismuth-214	1.17	0.75	0.08			1463957.728	597123.706
SU1-11-058	20051129	Cesium-137	3.8	0.059	0.059		U	1463957.728	597123.706
SU1-11-058	20051129	Cobalt-60	0.7	0.06	0.06		U	1463957.728	597123.706
SU1-11-058	20051129	Lead-210	7.4	1.1	1.1		U	1463957.728	597123.706
SU1-11-058	20051129	Lead-212	16.6	0.443	0.062			1463957.728	597123.706
SU1-11-058	20051129	Lead-214	8.9	0.73	0.09			1463957.728	597123.706
SU1-11-058	20051129	Potassium-40	47.8	11.5	0.3			1463957.728	597123.706
SU1-11-058	20051129	Protactinium-231	4	1.2	1.2		U	1463957.728	597123.706
SU1-11-058	20051129	Radium-224	2.6*	1.43	0.92			1463957.728	597123.706
SU1-11-058	20051129	Radium-226	2.9	0.75	0.08			1463957.728	597123.706
SU1-11-058	20051129	Radium-228	2.1	0.37	0.17			1463957.728	597123.706
SU1-11-058	20051129	Thallium-208	0.498**	0.169	0.042			1463957.728	597123.706
SU1-11-058	20051129	Thorium-228	2.6	0.44	0.04			1463957.728	597123.706
SU1-11-058	20051129	Thorium-230	2.8	0.82	0.02			1463957.728	597123.706
SU1-11-058	20051129	Thorium-232	2.1	0.37	0.17			1463957.728	597123.706
SU1-11-058	20051129	Thorium-232	2.1	0.49	0.01			1463957.728	597123.706
SU1-11-058	20051129	Thorium-234	176	1.22	0.74			1463957.728	597123.706
SU1-11-058	20051129	Uranium-234	2	0.573	0.015			1463957.728	597123.706
SU1-11-058	20051129	Uranium-238	3.2	1.22	0.74			1463957.728	597123.706
SU1-11-058	20051129	Uranium-238	3.2	0.76	0.009			1463957.728	597123.706
SU1-11-059	20051129	Actinium-227	4.6	0.42	0.36		J	1463972.728	597123.706
SU1-11-059	20051129	Actinium-228	1.93	1.52	0.21			1463972.728	597123.706
SU1-11-059	20051129	Americium-241	63	0.13	0.13		U	1463972.728	597123.706
SU1-11-059	20051129	Bismuth-207	1.2	0.055	0.055		U	1463972.728	597123.706
SU1-11-059	20051129	Bismuth-210M	8.3	0.067	0.067		U	1463972.728	597123.706
SU1-11-059	20051129	Bismuth-212	9.87	1.23	0.46			1463972.728	597123.706
SU1-11-059	20051129	Bismuth-214	1.17	1.02	0.13			1463972.728	597123.706
SU1-11-059	20051129	Cesium-137	3.8	0.067	0.067		U	1463972.728	597123.706
SU1-11-059	20051129	Cobalt-60	0.7	0.065	0.065		U	1463972.728	597123.706
SU1-11-059	20051129	Lead-210	7.4	1.3	1.3		U	1463972.728	597123.706
SU1-11-059	20051129	Lead-212	16.6	1.53	0.08			1463972.728	597123.706
SU1-11-059	20051129	Lead-214	8.9	1.25	0.11			1463972.728	597123.706
SU1-11-059	20051129	Potassium-40	47.8	17.6	0.7			1463972.728	597123.706
SU1-11-059	20051129	Protactinium-231	4	1.9	1.9		U	1463972.728	597123.706
SU1-11-059	20051129	Radium-224	2.6*	2.7	0.9			1463972.728	597123.706
SU1-11-059	20051129	Radium-226	2.9	1.02	0.13			1463972.728	597123.706
SU1-11-059	20051129	Radium-228	2.1	1.52	0.21			1463972.728	597123.706
SU1-11-059	20051129	Thallium-208	0.498**	0.53	0.06			1463972.728	597123.706
SU1-11-059	20051129	Thorium-228	2.6	1.31	0.08			1463972.728	597123.706
SU1-11-059	20051129	Thorium-230	2.8	1.38	0.05			1463972.728	597123.706
SU1-11-059	20051129	Thorium-232	2.1	1.52	0.21			1463972.728	597123.706
SU1-11-059	20051129	Thorium-232	2.1	1.1	0.03			1463972.728	597123.706
SU1-11-059	20051129	Thorium-234	176	1.43	1.2			1463972.728	597123.706
SU1-11-059	20051129	Uranium-234	2	0.88	0.02			1463972.728	597123.706
SU1-11-059	20051129	Uranium-238	3.2	1.32	0.009			1463972.728	597123.706
SU1-11-059	20051129	Uranium-238	3.2	1.43	1.2			1463972.728	597123.706
SU1-11-060	20051201	Actinium-227	4.6	0.32	0.32		U	1463987.728	597123.706
SU1-11-060	20051201	Americium-241	63	0.15	0.15		U	1463987.728	597123.706
SU1-11-060	20051201	Bismuth-207	1.2	0.062	0.062		U	1463987.728	597123.706
SU1-11-060	20051201	Bismuth-210M	8.3	0.072	0.072		U	1463987.728	597123.706
SU1-11-060	20051201	Bismuth-214	1.17	0.83	0.13			1463987.728	597123.706
SU1-11-060	20051201	Cesium-137	3.8	0.079	0.079		U	1463987.728	597123.706
SU1-11-060	20051201	Cobalt-60	0.7	0.093	0.093		U	1463987.728	597123.706
SU1-11-060	20051201	Lead-210	7.4	1.9	1.9		U	1463987.728	597123.706
SU1-11-060	20051201	Lead-212	16.6	0.51	0.15			1463987.728	597123.706
SU1-11-060	20051201	Lead-214	8.9	0.68	0.14			1463987.728	597123.706

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-060	20051201	Potassium-40	47.8	12	0.9			1463987.728	597123.706
SU1-11-060	20051201	Protactinium-231	4	1.9	1.9		U	1463987.728	597123.706
SU1-11-060	20051201	Radium-224	2.6*	2	1.6			1463987.728	597123.706
SU1-11-060	20051201	Radium-226	2.9	0.83	0.13			1463987.728	597123.706
SU1-11-060	20051201	Thallium-208	0.498**	0.178	0.076			1463987.728	597123.706
SU1-11-060	20051201	Thorium-228	2.6	0.44	0.03			1463987.728	597123.706
SU1-11-060	20051201	Thorium-230	2.8	0.85	0.01			1463987.728	597123.706
SU1-11-060	20051201	Thorium-232	2.1	0.54	0.03			1463987.728	597123.706
SU1-11-060	20051201	Uranium-234	2	0.76	0.02			1463987.728	597123.706
SU1-11-060	20051201	Uranium-238	3.2	0.73	0.02			1463987.728	597123.706
SU1-11-061	20051201	Actinium-227	4.6	0.22	0.22		U	1464002.728	597123.706
SU1-11-061	20051201	Actinium-228	1.93	0.65	0.16			1464002.728	597123.706
SU1-11-061	20051201	Americium-241	63	0.088	0.088		U	1464002.728	597123.706
SU1-11-061	20051201	Bismuth-207	1.2	0.044	0.044		U	1464002.728	597123.706
SU1-11-061	20051201	Bismuth-210M	8.3	0.047	0.047		U	1464002.728	597123.706
SU1-11-061	20051201	Bismuth-214	1.17	0.86	0.08			1464002.728	597123.706
SU1-11-061	20051201	Cesium-137	3.8	0.06	0.06		U	1464002.728	597123.706
SU1-11-061	20051201	Cobalt-60	0.7	0.053	0.053		U	1464002.728	597123.706
SU1-11-061	20051201	Lead-210	7.4	1.1	1.1		U	1464002.728	597123.706
SU1-11-061	20051201	Lead-212	16.6	0.473	0.065			1464002.728	597123.706
SU1-11-061	20051201	Lead-214	8.9	0.82	0.08			1464002.728	597123.706
SU1-11-061	20051201	Potassium-40	47.8	12.2	0.5			1464002.728	597123.706
SU1-11-061	20051201	Protactinium-231	4	1.2	1.2		U	1464002.728	597123.706
SU1-11-061	20051201	Radium-224	2.6*	1.15	0.69			1464002.728	597123.706
SU1-11-061	20051201	Radium-226	2.9	0.86	0.08			1464002.728	597123.706
SU1-11-061	20051201	Radium-228	2.1	0.65	0.16			1464002.728	597123.706
SU1-11-061	20051201	Thallium-208	0.498**	0.181	0.036			1464002.728	597123.706
SU1-11-061	20051201	Thorium-228	2.6	0.56	0.08			1464002.728	597123.706
SU1-11-061	20051201	Thorium-230	2.8	0.9	0.03			1464002.728	597123.706
SU1-11-061	20051201	Thorium-232	2.1	0.65	0.16			1464002.728	597123.706
SU1-11-061	20051201	Thorium-232	2.1	0.48	0.04			1464002.728	597123.706
SU1-11-061	20051201	Uranium-234	2	0.83	0.02			1464002.728	597123.706
SU1-11-061	20051201	Uranium-238	3.2	0.65	0.01			1464002.728	597123.706
SU1-11-062	20051129	Actinium-227	4.6	0.27	0.27		U	1463980.228	597136.697
SU1-11-062	20051129	Actinium-228	1.93	0.37	0.22			1463980.228	597136.697
SU1-11-062	20051129	Americium-241	63	0.11	0.11		U	1463980.228	597136.697
SU1-11-062	20051129	Bismuth-207	1.2	0.046	0.046		U	1463980.228	597136.697
SU1-11-062	20051129	Bismuth-210M	8.3	0.06	0.06		U	1463980.228	597136.697
SU1-11-062	20051129	Bismuth-214	1.17	0.83	0.1			1463980.228	597136.697
SU1-11-062	20051129	Cesium-137	3.8	0.063	0.063		U	1463980.228	597136.697
SU1-11-062	20051129	Cobalt-60	0.7	0.054	0.054		U	1463980.228	597136.697
SU1-11-062	20051129	Lead-210	7.4	1.4	1.4		U	1463980.228	597136.697
SU1-11-062	20051129	Lead-212	16.6	0.407	0.077			1463980.228	597136.697
SU1-11-062	20051129	Lead-214	8.9	0.89	0.09			1463980.228	597136.697
SU1-11-062	20051129	Potassium-40	47.8	11.8	0.5			1463980.228	597136.697
SU1-11-062	20051129	Protactinium-231	4	1.5	1.5		U	1463980.228	597136.697
SU1-11-062	20051129	Radium-224	2.6*	2.1	1.2			1463980.228	597136.697
SU1-11-062	20051129	Radium-226	2.9	0.83	0.1			1463980.228	597136.697
SU1-11-062	20051129	Radium-228	2.1	0.37	0.22			1463980.228	597136.697
SU1-11-062	20051129	Thallium-208	0.498**	0.174	0.056			1463980.228	597136.697
SU1-11-062	20051129	Thorium-228	2.6	0.42	0.07			1463980.228	597136.697
SU1-11-062	20051129	Thorium-230	2.8	0.96	0.05			1463980.228	597136.697
SU1-11-062	20051129	Thorium-232	2.1	0.49	0.05			1463980.228	597136.697
SU1-11-062	20051129	Thorium-232	2.1	0.37	0.22			1463980.228	597136.697
SU1-11-062	20051129	Thorium-234	176	1.62	0.94			1463980.228	597136.697
SU1-11-062	20051129	Uranium-234	2	0.556	0.014			1463980.228	597136.697
SU1-11-062	20051129	Uranium-238	3.2	1.62	0.94			1463980.228	597136.697
SU1-11-062	20051129	Uranium-238	3.2	0.571	0.009			1463980.228	597136.697
SU1-11-071	20051130	Actinium-227	4.6	0.4	0.4		U	1463968.978	597026.278

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-071	20051130	Actinium-228	1.93	0.55	0.24			1463968.978	597026.278
SU1-11-071	20051130	Americium-241	63	0.13	0.13		U	1463968.978	597026.278
SU1-11-071	20051130	Bismuth-207	1.2	0.045	0.045		U	1463968.978	597026.278
SU1-11-071	20051130	Bismuth-210M	8.3	0.073	0.073		U	1463968.978	597026.278
SU1-11-071	20051130	Bismuth-214	1.17	0.67	0.1			1463968.978	597026.278
SU1-11-071	20051130	Cesium-137	3.8	0.076	0.076		U	1463968.978	597026.278
SU1-11-071	20051130	Cobalt-60	0.7	0.061	0.061		U	1463968.978	597026.278
SU1-11-071	20051130	Lead-210	7.4	1.7	1.7		U	1463968.978	597026.278
SU1-11-071	20051130	Lead-212	16.6	0.42	0.13			1463968.978	597026.278
SU1-11-071	20051130	Lead-214	8.9	0.79	0.12			1463968.978	597026.278
SU1-11-071	20051130	Plutonium-238	55	0.123	0.038			1463968.978	597026.278
SU1-11-071	20051130	Plutonium-239/240	62	0.025	0.025		U	1463968.978	597026.278
SU1-11-071	20051130	Potassium-40	47.8	10.6	0.7			1463968.978	597026.278
SU1-11-071	20051130	Protactinium-231	4	1.9	1.9		U	1463968.978	597026.278
SU1-11-071	20051130	Radium-224	2.6*	1.6	1.4			1463968.978	597026.278
SU1-11-071	20051130	Radium-226	2.9	0.67	0.1			1463968.978	597026.278
SU1-11-071	20051130	Radium-228	2.1	0.55	0.24			1463968.978	597026.278
SU1-11-071	20051130	Thallium-208	0.498**	0.202	0.055			1463968.978	597026.278
SU1-11-071	20051130	Thorium-228	2.6	0.72	0.06			1463968.978	597026.278
SU1-11-071	20051130	Thorium-230	2.8	0.89	0.04			1463968.978	597026.278
SU1-11-071	20051130	Thorium-232	2.1	0.63	0.04			1463968.978	597026.278
SU1-11-071	20051130	Thorium-232	2.1	0.55	0.24			1463968.978	597026.278
SU1-11-071	20051130	Uranium-234	2	0.69	0.02			1463968.978	597026.278
SU1-11-071	20051130	Uranium-238	3.2	0.65	0.02			1463968.978	597026.278
SU1-11-072	20051129	Actinium-227	4.6	0.15	0.15		U	1463972.728	597058.754
SU1-11-072	20051129	Actinium-228	1.93	0.2	0.11			1463972.728	597058.754
SU1-11-072	20051129	Americium-241	63	0.055	0.055		U	1463972.728	597058.754
SU1-11-072	20051129	Bismuth-207	1.2	0.028	0.028		U	1463972.728	597058.754
SU1-11-072	20051129	Bismuth-210M	8.3	0.032	0.032		U	1463972.728	597058.754
SU1-11-072	20051129	Bismuth-214	1.17	0.361	0.059			1463972.728	597058.754
SU1-11-072	20051129	Cesium-137	3.8	0.032	0.032		U	1463972.728	597058.754
SU1-11-072	20051129	Cobalt-60	0.7	0.031	0.031		U	1463972.728	597058.754
SU1-11-072	20051129	Lead-210	7.4	0.8	0.8		U	1463972.728	597058.754
SU1-11-072	20051129	Lead-212	16.6	0.178	0.04			1463972.728	597058.754
SU1-11-072	20051129	Lead-214	8.9	0.5	0.05			1463972.728	597058.754
SU1-11-072	20051129	Plutonium-238	55	0.04	0.04		U	1463972.728	597058.754
SU1-11-072	20051129	Plutonium-239/240	62	0.022	0.022		U	1463972.728	597058.754
SU1-11-072	20051129	Potassium-40	47.8	5.96	0.33		J	1463972.728	597058.754
SU1-11-072	20051129	Protactinium-231	4	0.79	0.79		U	1463972.728	597058.754
SU1-11-072	20051129	Radium-224	2.6*	1.17	0.62			1463972.728	597058.754
SU1-11-072	20051129	Radium-226	2.9	0.361	0.059			1463972.728	597058.754
SU1-11-072	20051129	Radium-228	2.1	0.2	0.11			1463972.728	597058.754
SU1-11-072	20051129	Thallium-208	0.498**	0.044	0.029			1463972.728	597058.754
SU1-11-072	20051129	Thorium-228	2.6	0.328	0.033			1463972.728	597058.754
SU1-11-072	20051129	Thorium-230	2.8	0.89	0.04			1463972.728	597058.754
SU1-11-072	20051129	Thorium-232	2.1	0.335	0.024			1463972.728	597058.754
SU1-11-072	20051129	Thorium-232	2.1	0.2	0.11			1463972.728	597058.754
SU1-11-072	20051129	Uranium-234	2	0.75	0.02			1463972.728	597058.754
SU1-11-072	20051129	Uranium-238	3.2	0.67	0.009			1463972.728	597058.754
SU1-11-073	20051130	Actinium-227	4.6	0.18	0.18		U	1463976.478	597104.221
SU1-11-073	20051130	Actinium-228	1.93	0.49	0.14			1463976.478	597104.221
SU1-11-073	20051130	Americium-241	63	0.071	0.071		U	1463976.478	597104.221
SU1-11-073	20051130	Bismuth-207	1.2	0.031	0.031		U	1463976.478	597104.221
SU1-11-073	20051130	Bismuth-210M	8.3	0.041	0.041		U	1463976.478	597104.221
SU1-11-073	20051130	Bismuth-212	9.87	0.58	0.25			1463976.478	597104.221
SU1-11-073	20051130	Bismuth-214	1.17	0.67	0.07			1463976.478	597104.221
SU1-11-073	20051130	Cesium-137	3.8	0.045	0.045		U	1463976.478	597104.221
SU1-11-073	20051130	Cobalt-60	0.7	0.046	0.046		U	1463976.478	597104.221
SU1-11-073	20051130	Lead-210	7.4	0.9	0.9		U	1463976.478	597104.221

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Table 1: SU1 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU1-11-073	20051130	Lead-212	16.6	0.491	0.049			1463976.478	597104.221
SU1-11-073	20051130	Lead-214	8.9	0.59	0.06			1463976.478	597104.221
SU1-11-073	20051130	Plutonium-238	55	0.1	0.038			1463976.478	597104.221
SU1-11-073	20051130	Plutonium-239/240	62	0.034	0.034		U	1463976.478	597104.221
SU1-11-073	20051130	Potassium-40	47.8	7.3	0.4		J	1463976.478	597104.221
SU1-11-073	20051130	Protactinium-231	4	0.96	0.96		U	1463976.478	597104.221
SU1-11-073	20051130	Radium-224	2.6*	1.2	0.52			1463976.478	597104.221
SU1-11-073	20051130	Radium-226	2.9	0.67	0.07			1463976.478	597104.221
SU1-11-073	20051130	Radium-228	2.1	0.49	0.14			1463976.478	597104.221
SU1-11-073	20051130	Thallium-208	0.498**	0.172	0.038			1463976.478	597104.221
SU1-11-073	20051130	Thorium-228	2.6	0.75	0.04			1463976.478	597104.221
SU1-11-073	20051130	Thorium-230	2.8	0.98	0.01			1463976.478	597104.221
SU1-11-073	20051130	Thorium-232	2.1	1.1	0.02			1463976.478	597104.221
SU1-11-073	20051130	Thorium-232	2.1	0.49	0.14			1463976.478	597104.221
SU1-11-073	20051130	Uranium-234	2	1.11	0.07			1463976.478	597104.221
SU1-11-073	20051130	Uranium-238	3.2	1.4	0.03			1463976.478	597104.221
SU1-11-53A	20060112	Actinium-227	4.6	0.52	0.52		U	1463965.228	597110.716
SU1-11-53A	20060112	Americium-241	63	0.2	0.2		U	1463965.228	597110.716
SU1-11-53A	20060112	Bismuth-210M	8.3	0.12	0.12		U	1463965.228	597110.716
SU1-11-53A	20060112	Cesium-137	3.8	0.1	0.1		U	1463965.228	597110.716
SU1-11-53A	20060112	Cobalt-60	0.7	0.13	0.13		U	1463965.228	597110.716
SU1-11-53A	20060112	Lead-210	7.4	2.3	2.3		U	1463965.228	597110.716
SU1-11-53A	20060112	Lead-212	16.6	0.63	0.19			1463965.228	597110.716
SU1-11-53A	20060112	Lead-214	8.9	0.75	0.19			1463965.228	597110.716
SU1-11-53A	20060112	Potassium-40	47.8	11.6	1.3			1463965.228	597110.716
SU1-11-53A	20060112	Protactinium-231	4	2.7	2.7		U	1463965.228	597110.716
SU1-11-53A	20060112	Radium-224	2.6*	3.4	2.3			1463965.228	597110.716
SU1-11-53A	20060112	Radium-226	2.9	0.91	0.46		J	1463965.228	597110.716
SU1-11-53A	20060112	Radium-228	2.1	0.75	0.75		U	1463965.228	597110.716
SU1-11-53A	20060112	Thallium-208	0.498**	0.24	0.11			1463965.228	597110.716
SU1-11-53A	20060112	Thorium-228	2.6	0.82	0.15		J	1463965.228	597110.716
SU1-11-53A	20060112	Thorium-230	2.8	1.21	0.09			1463965.228	597110.716
SU1-11-53A	20060112	Thorium-232	2.1	0.73	0.1		J	1463965.228	597110.716
SU1-11-53A	20060112	Thorium-232	2.1	0.75	0.75		U	1463965.228	597110.716
SU1-11-53A	20060112	Uranium-234	2	0.5	0.06		J	1463965.228	597110.716
SU1-11-53A	20060112	Uranium-235	3.2	0.085	0.068		J	1463965.228	597110.716
SU1-11-53A	20060112	Uranium-238	3.2	0.71	0.05		J	1463965.228	597110.716

*: Ra-224 CO value based on most conservative (Construction Worker or Site Employee) 10E-5 RBGV + BKGD and includes daughters
**: Tl-208 CO value based on most conservative (Construction Worker or Site Employee) 10E-5 RBGV (not including BKGD and daughters)
RBGV: Risk Based Guideline Value
BKGD: background
U: not detected
J: estimate
CO: cleanup objective
DQ: data qualifier
DL: detection limit
LQ: lab qualifier
D: duplicate
A: resample

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Table 2: SU2 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU2-11-063	20051130	Actinium-227	4.6	0.38	0.38		U	1464093	597012.3
SU2-11-063	20051130	Actinium-228	1.93	0.89	0.29			1464093	597012.3
SU2-11-063	20051130	Americium-241	63	0.16	0.16		U	1464093	597012.3
SU2-11-063	20051130	Bismuth-207	1.2	0.057	0.057		U	1464093	597012.3
SU2-11-063	20051130	Bismuth-210M	8.3	0.082	0.082		U	1464093	597012.3
SU2-11-063	20051130	Bismuth-214	1.17	1.07	0.15			1464093	597012.3
SU2-11-063	20051130	Cesium-137	3.8	0.084	0.084		U	1464093	597012.3
SU2-11-063	20051130	Cobalt-60	0.7	0.083	0.083		U	1464093	597012.3
SU2-11-063	20051130	Lead-210	7.4	1.8	1.8		U	1464093	597012.3
SU2-11-063	20051130	Lead-212	16.6	0.95	0.11			1464093	597012.3
SU2-11-063	20051130	Lead-214	8.9	1.02	0.13			1464093	597012.3
SU2-11-063	20051130	Plutonium-238	55	0.053	0.022		J	1464093	597012.3
SU2-11-063	20051130	Plutonium-239/240	62	0.019	0.019		U	1464093	597012.3
SU2-11-063	20051130	Potassium-40	47.8	20	0.4			1464093	597012.3
SU2-11-063	20051130	Protactinium-231	4	2.2	2.2		U	1464093	597012.3
SU2-11-063	20051130	Radium-224	32.4	2.4	1.6			1464093	597012.3
SU2-11-063	20051130	Radium-226	2.9	1.07	0.15			1464093	597012.3
SU2-11-063	20051130	Radium-228	2.1	0.89	0.29			1464093	597012.3
SU2-11-063	20051130	Thallium-208	0.498	0.368	0.065			1464093	597012.3
SU2-11-063	20051130	Thorium-228	2.6	1.14	0.05			1464093	597012.3
SU2-11-063	20051130	Thorium-230	2.8	1.48	0.03			1464093	597012.3
SU2-11-063	20051130	Thorium-232	2.1	1.06	0.03			1464093	597012.3
SU2-11-063	20051130	Thorium-232	2.1	0.89	0.29			1464093	597012.3
SU2-11-063	20051130	Uranium-234	2	0.81	0.03			1464093	597012.3
SU2-11-063	20051130	Uranium-238	3.2	0.84	0.03			1464093	597012.3
SU2-11-064	20051201	Actinium-227	4.6	0.25	0.25		U	1464108	597012.3
SU2-11-064	20051201	Actinium-228	1.93	0.52	0.16			1464108	597012.3
SU2-11-064	20051201	Americium-241	63	0.084	0.084		U	1464108	597012.3
SU2-11-064	20051201	Beryllium-7	41.1	0.3	0.3		U	1464108	597012.3
SU2-11-064	20051201	Bismuth-207	1.2	0.039	0.039		U	1464108	597012.3
SU2-11-064	20051201	Bismuth-210M	8.3	0.047	0.047		U	1464108	597012.3
SU2-11-064	20051201	Bismuth-214	1.17	0.73	0.08			1464108	597012.3
SU2-11-064	20051201	Cesium-137	3.8	0.052	0.052		U	1464108	597012.3
SU2-11-064	20051201	Cobalt-60	0.7	0.056	0.056		U	1464108	597012.3
SU2-11-064	20051201	Lead-210	7.4	1.02	0.88		J	1464108	597012.3
SU2-11-064	20051201	Lead-212	16.6	0.475	0.06			1464108	597012.3
SU2-11-064	20051201	Lead-214	8.9	0.72	0.08			1464108	597012.3
SU2-11-064	20051201	Plutonium-238	55	0.71	0.03			1464108	597012.3
SU2-11-064	20051201	Plutonium-239/240	62	0.024	0.024		U	1464108	597012.3
SU2-11-064	20051201	Potassium-40	47.8	10.9	0.4			1464108	597012.3
SU2-11-064	20051201	Protactinium-231	4	1.46	1.3			1464108	597012.3
SU2-11-064	20051201	Radium-224	32.4	1.64	0.64			1464108	597012.3
SU2-11-064	20051201	Radium-226	2.9	0.73	0.08			1464108	597012.3
SU2-11-064	20051201	Radium-228	2.1	0.52	0.16			1464108	597012.3
SU2-11-064	20051201	Thallium-208	0.498	0.18	0.046			1464108	597012.3
SU2-11-064	20051201	Thorium-228	2.6	0.4	0.03			1464108	597012.3
SU2-11-064	20051201	Thorium-230	2.8	0.86	0.02			1464108	597012.3
SU2-11-064	20051201	Thorium-232	2.1	0.52	0.16			1464108	597012.3
SU2-11-064	20051201	Thorium-232	2.1	0.46	0.02			1464108	597012.3

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Table 2: SU2 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU2-11-064	20051201	Uranium-234	2	0.82	0.01			1464108	597012.3
SU2-11-064	20051201	Uranium-238	3.2	0.79	0.02			1464108	597012.3
SU2-11-065	20051130	Actinium-227	4.6	0.4	0.37		J	1464101	597025.3
SU2-11-065	20051130	Actinium-228	1.93	0.6	0.24			1464101	597025.3
SU2-11-065	20051130	Americium-241	63	0.15	0.15		U	1464101	597025.3
SU2-11-065	20051130	Beryllium-7	41.1	0.54	0.54		U	1464101	597025.3
SU2-11-065	20051130	Bismuth-207	1.2	0.062	0.062		U	1464101	597025.3
SU2-11-065	20051130	Bismuth-210M	8.3	0.076	0.076		U	1464101	597025.3
SU2-11-065	20051130	Bismuth-214	1.17	0.88	0.11			1464101	597025.3
SU2-11-065	20051130	Cesium-137	3.8	0.075	0.075		U	1464101	597025.3
SU2-11-065	20051130	Cobalt-60	0.7	0.073	0.073		U	1464101	597025.3
SU2-11-065	20051130	Lead-210	7.4	1.9	1.9		U	1464101	597025.3
SU2-11-065	20051130	Lead-212	16.6	0.65	0.11			1464101	597025.3
SU2-11-065	20051130	Lead-214	8.9	0.8	0.13			1464101	597025.3
SU2-11-065	20051130	Plutonium-238	55	3.46	0.04			1464101	597025.3
SU2-11-065	20051130	Plutonium-239/240	62	0.037	0.012		J	1464101	597025.3
SU2-11-065	20051130	Potassium-40	47.8	13	0.5			1464101	597025.3
SU2-11-065	20051130	Protactinium-231	4	2	2		U	1464101	597025.3
SU2-11-065	20051130	Radium-224	32.4	2.1	1			1464101	597025.3
SU2-11-065	20051130	Radium-226	2.9	0.88	0.11			1464101	597025.3
SU2-11-065	20051130	Radium-228	2.1	0.6	0.24			1464101	597025.3
SU2-11-065	20051130	Thallium-208	0.498	0.204	0.067			1464101	597025.3
SU2-11-065	20051130	Thorium-228	2.6	0.71	0.04			1464101	597025.3
SU2-11-065	20051130	Thorium-230	2.8	1.17	0.02			1464101	597025.3
SU2-11-065	20051130	Thorium-232	2.1	0.69	0.02			1464101	597025.3
SU2-11-065	20051130	Thorium-232	2.1	0.6	0.24			1464101	597025.3
SU2-11-065	20051130	Uranium-234	2	0.81	0.03			1464101	597025.3
SU2-11-065	20051130	Uranium-238	3.2	1	0.01			1464101	597025.3
SU2-11-067	20051130	Actinium-227	4.6	0.26	0.26		U	1464092	597019.6
SU2-11-067	20051130	Actinium-228	1.93	0.74	0.18			1464092	597019.6
SU2-11-067	20051130	Americium-241	63	0.093	0.093		U	1464092	597019.6
SU2-11-067	20051130	Beryllium-7	41.1	0.32	0.32		U	1464092	597019.6
SU2-11-067	20051130	Bismuth-207	1.2	0.04	0.04		U	1464092	597019.6
SU2-11-067	20051130	Bismuth-210M	8.3	0.051	0.051		U	1464092	597019.6
SU2-11-067	20051130	Bismuth-212	9.87	0.42	0.39			1464092	597019.6
SU2-11-067	20051130	Bismuth-214	1.17	0.73	0.07			1464092	597019.6
SU2-11-067	20051130	Cesium-137	3.8	0.058	0.058		U	1464092	597019.6
SU2-11-067	20051130	Cobalt-60	0.7	0.05	0.05		U	1464092	597019.6
SU2-11-067	20051130	Lead-210	7.4	1.2	1.2		U	1464092	597019.6
SU2-11-067	20051130	Lead-212	16.6	0.84	0.06			1464092	597019.6
SU2-11-067	20051130	Lead-214	8.9	0.76	0.07			1464092	597019.6
SU2-11-067	20051130	Plutonium-238	55	2.26	0.04			1464092	597019.6
SU2-11-067	20051130	Plutonium-239/240	62	0.04	0.035		J	1464092	597019.6
SU2-11-067	20051130	Potassium-40	47.8	13.2	0.4			1464092	597019.6
SU2-11-067	20051130	Protactinium-231	4	1.3	1.3		U	1464092	597019.6
SU2-11-067	20051130	Radium-224	32.4	1.8	0.7			1464092	597019.6
SU2-11-067	20051130	Radium-226	2.9	0.73	0.07			1464092	597019.6
SU2-11-067	20051130	Radium-228	2.1	0.74	0.18			1464092	597019.6
SU2-11-067	20051130	Thallium-208	0.498	0.29	0.044			1464092	597019.6

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Table 2: SU2 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU2-11-067	20051130	Thorium-228	2.6	0.77	0.03			1464092	597019.6
SU2-11-067	20051130	Thorium-230	2.8	1	0.02			1464092	597019.6
SU2-11-067	20051130	Thorium-232	2.1	0.74	0.18			1464092	597019.6
SU2-11-067	20051130	Thorium-232	2.1	0.65	0.03			1464092	597019.6
SU2-11-067	20051130	Thorium-234	176	1.4	0.8			1464092	597019.6
SU2-11-067	20051130	Uranium-234	2	0.64	0.03			1464092	597019.6
SU2-11-067	20051130	Uranium-238	3.2	0.97	0.02			1464092	597019.6
SU2-11-067	20051130	Uranium-238	3.2	1.4	0.8			1464092	597019.6
SU2-11-068	20051130	Actinium-227	4.6	0.37	0.37		U	1464109	597019.1
SU2-11-068	20051130	Actinium-228	1.93	0.96	0.24			1464109	597019.1
SU2-11-068	20051130	Americium-241	63	0.15	0.15		U	1464109	597019.1
SU2-11-068	20051130	Beryllium-7	41.1	0.59	0.59		U	1464109	597019.1
SU2-11-068	20051130	Bismuth-207	1.2	0.062	0.062		U	1464109	597019.1
SU2-11-068	20051130	Bismuth-210M	8.3	0.079	0.079		U	1464109	597019.1
SU2-11-068	20051130	Bismuth-214	1.17	0.92	0.17			1464109	597019.1
SU2-11-068	20051130	Cesium-137	3.8	0.095	0.095		U	1464109	597019.1
SU2-11-068	20051130	Cobalt-60	0.7	0.088	0.088		U	1464109	597019.1
SU2-11-068	20051130	Lead-210	7.4	1.7	1.7		U	1464109	597019.1
SU2-11-068	20051130	Lead-212	16.6	1.01	0.1			1464109	597019.1
SU2-11-068	20051130	Lead-214	8.9	0.84	0.14			1464109	597019.1
SU2-11-068	20051130	Plutonium-238	55	5.4	0.04	J		1464109	597019.1
SU2-11-068	20051130	Plutonium-239/240	62	0.03	0.028		J	1464109	597019.1
SU2-11-068	20051130	Potassium-40	47.8	14.7	0.6			1464109	597019.1
SU2-11-068	20051130	Protactinium-231	4	2.1	2.1	J	U	1464109	597019.1
SU2-11-068	20051130	Radium-224	32.4	1.7	1.1	J		1464109	597019.1
SU2-11-068	20051130	Radium-226	2.9	0.92	0.17	J		1464109	597019.1
SU2-11-068	20051130	Radium-228	2.1	0.96	0.24			1464109	597019.1
SU2-11-068	20051130	Thallium-208	0.498	0.337	0.087			1464109	597019.1
SU2-11-068	20051130	Thorium-228	2.6	0.83	0.04			1464109	597019.1
SU2-11-068	20051130	Thorium-230	2.8	1.14	0.02	J		1464109	597019.1
SU2-11-068	20051130	Thorium-232	2.1	0.96	0.24			1464109	597019.1
SU2-11-068	20051130	Thorium-232	2.1	0.83	0.01			1464109	597019.1
SU2-11-068	20051130	Uranium-234	2	0.56	0.02			1464109	597019.1
SU2-11-068	20051130	Uranium-238	3.2	0.64	0.01			1464109	597019.1
SU2-11-068D	20051130	Actinium-227	4.6	0.25	0.25		U	1464109	597019.1
SU2-11-068D	20051130	Actinium-228	1.93	1.15	0.19			1464109	597019.1
SU2-11-068D	20051130	Americium-241	63	0.1	0.1		U	1464109	597019.1
SU2-11-068D	20051130	Beryllium-7	41.1	0.37	0.37		U	1464109	597019.1
SU2-11-068D	20051130	Bismuth-207	1.2	0.046	0.046		U	1464109	597019.1
SU2-11-068D	20051130	Bismuth-210M	8.3	0.057	0.057		U	1464109	597019.1
SU2-11-068D	20051130	Bismuth-212	9.87	0.52	0.4			1464109	597019.1
SU2-11-068D	20051130	Bismuth-214	1.17	0.82	0.11			1464109	597019.1
SU2-11-068D	20051130	Cesium-137	3.8	0.055	0.055		U	1464109	597019.1
SU2-11-068D	20051130	Cobalt-60	0.7	0.063	0.063		U	1464109	597019.1
SU2-11-068D	20051130	Lead-210	7.4	1.19	0.99		J	1464109	597019.1
SU2-11-068D	20051130	Lead-212	16.6	1.02	0.07			1464109	597019.1
SU2-11-068D	20051130	Lead-214	8.9	1.01	0.08			1464109	597019.1
SU2-11-068D	20051130	Plutonium-238	55	4.7	0.04			1464109	597019.1
SU2-11-068D	20051130	Plutonium-239/240	62	0.04	0.025		J	1464109	597019.1

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Table 2: SU2 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU2-11-068D	20051130	Potassium-40	47.8	15.6	0.5			1464109	597019.1
SU2-11-068D	20051130	Protactinium-231	4	1.5	1.5		U	1464109	597019.1
SU2-11-068D	20051130	Radium-224	32.4	2.3	0.7			1464109	597019.1
SU2-11-068D	20051130	Radium-226	2.9	0.82	0.11			1464109	597019.1
SU2-11-068D	20051130	Radium-228	2.1	1.15	0.19			1464109	597019.1
SU2-11-068D	20051130	Thallium-208	0.498	0.311	0.055			1464109	597019.1
SU2-11-068D	20051130	Thorium-228	2.6	0.86	0.04			1464109	597019.1
SU2-11-068D	20051130	Thorium-230	2.8	1.13	0.01			1464109	597019.1
SU2-11-068D	20051130	Thorium-232	2.1	1.15	0.19			1464109	597019.1
SU2-11-068D	20051130	Thorium-232	2.1	0.82	0.02			1464109	597019.1
SU2-11-068D	20051130	Thorium-234	176	1.14	0.9			1464109	597019.1
SU2-11-068D	20051130	Uranium-234	2	0.62	0.02			1464109	597019.1
SU2-11-068D	20051130	Uranium-238	3.2	0.84	0.02			1464109	597019.1
SU2-11-068D	20051130	Uranium-238	3.2	1.13	0.9			1464109	597019.1
SU2-11-069	20051130	Actinium-227	4.6	0.41	0.32		J	1464101	597019.6
SU2-11-069	20051130	Actinium-228	1.93	0.81	0.17			1464101	597019.6
SU2-11-069	20051130	Americium-241	63	0.11	0.11		U	1464101	597019.6
SU2-11-069	20051130	Beryllium-7	41.1	0.38	0.38		U	1464101	597019.6
SU2-11-069	20051130	Bismuth-207	1.2	0.044	0.044		U	1464101	597019.6
SU2-11-069	20051130	Bismuth-210M	8.3	0.06	0.06		U	1464101	597019.6
SU2-11-069	20051130	Bismuth-214	1.17	0.87	0.09			1464101	597019.6
SU2-11-069	20051130	Cesium-137	3.8	0.068	0.068		U	1464101	597019.6
SU2-11-069	20051130	Cobalt-60	0.7	0.058	0.058		U	1464101	597019.6
SU2-11-069	20051130	Lead-210	7.4	1.3	1.3		U	1464101	597019.6
SU2-11-069	20051130	Lead-212	16.6	0.8	0.09			1464101	597019.6
SU2-11-069	20051130	Lead-214	8.9	0.83	0.09			1464101	597019.6
SU2-11-069	20051130	Plutonium-238	55	2.34	0.04			1464101	597019.6
SU2-11-069	20051130	Plutonium-239/240	62	0.027	0.027		U	1464101	597019.6
SU2-11-069	20051130	Potassium-40	47.8	11.5	0.6			1464101	597019.6
SU2-11-069	20051130	Protactinium-231	4	1.6	1.6		U	1464101	597019.6
SU2-11-069	20051130	Radium-224	32.4	2.1	0.8			1464101	597019.6
SU2-11-069	20051130	Radium-226	2.9	0.87	0.09			1464101	597019.6
SU2-11-069	20051130	Radium-228	2.1	0.81	0.17			1464101	597019.6
SU2-11-069	20051130	Thallium-208	0.498	0.255	0.052			1464101	597019.6
SU2-11-069	20051130	Thorium-228	2.6	0.77	0.04			1464101	597019.6
SU2-11-069	20051130	Thorium-230	2.8	1.18	0.03			1464101	597019.6
SU2-11-069	20051130	Thorium-232	2.1	0.63	0.02			1464101	597019.6
SU2-11-069	20051130	Thorium-232	2.1	0.81	0.17			1464101	597019.6
SU2-11-069	20051130	Thorium-234	176	1.2	0.97			1464101	597019.6
SU2-11-069	20051130	Uranium-234	2	0.66	0.03			1464101	597019.6
SU2-11-069	20051130	Uranium-238	3.2	1.2	0.97			1464101	597019.6
SU2-11-069	20051130	Uranium-238	3.2	0.83	0.03			1464101	597019.6
SU2-11-070	20051130	Actinium-227	4.6	0.35	0.35		U	1464092	597025.3
SU2-11-070	20051130	Actinium-228	1.93	0.44	0.27			1464092	597025.3
SU2-11-070	20051130	Americium-241	63	0.13	0.13		U	1464092	597025.3
SU2-11-070	20051130	Beryllium-7	41.1	0.49	0.49		U	1464092	597025.3
SU2-11-070	20051130	Bismuth-207	1.2	0.04	0.04		U	1464092	597025.3
SU2-11-070	20051130	Bismuth-210M	8.3	0.072	0.072		U	1464092	597025.3
SU2-11-070	20051130	Bismuth-214	1.17	0.63	0.1			1464092	597025.3

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Table 2: SU2 Offsite Verification Results (pCi/g)

[all are surface soil samples]

Location	Date	Analyte	CO	Result	DL	DQ	LQ	Easting	Northing
SU2-11-070	20051130	Cesium-137	3.8	0.08	0.08		U	1464092	597025.3
SU2-11-070	20051130	Cobalt-60	0.7	0.065	0.065		U	1464092	597025.3
SU2-11-070	20051130	Lead-210	7.4	1.7	1.7		U	1464092	597025.3
SU2-11-070	20051130	Lead-212	16.6	0.59	0.08			1464092	597025.3
SU2-11-070	20051130	Lead-214	8.9	0.73	0.1			1464092	597025.3
SU2-11-070	20051130	Plutonium-238	55	1.58	0.04			1464092	597025.3
SU2-11-070	20051130	Plutonium-239/240	62	0.013	0.013		U	1464092	597025.3
SU2-11-070	20051130	Potassium-40	47.8	10.3	0.5			1464092	597025.3
SU2-11-070	20051130	Protactinium-231	4	1.7	1.7		U	1464092	597025.3
SU2-11-070	20051130	Radium-224	32.4	1.9	0.9			1464092	597025.3
SU2-11-070	20051130	Radium-226	2.9	0.63	0.1			1464092	597025.3
SU2-11-070	20051130	Radium-228	2.1	0.44	0.27			1464092	597025.3
SU2-11-070	20051130	Thallium-208	0.498	0.206	0.068			1464092	597025.3
SU2-11-070	20051130	Thorium-228	2.6	0.53	0.03			1464092	597025.3
SU2-11-070	20051130	Thorium-230	2.8	0.91	0.02			1464092	597025.3
SU2-11-070	20051130	Thorium-232	2.1	0.53	0.02			1464092	597025.3
SU2-11-070	20051130	Thorium-232	2.1	0.44	0.27			1464092	597025.3
SU2-11-070	20051130	Uranium-234	2	0.73	0.03			1464092	597025.3
SU2-11-070	20051130	Uranium-238	3.2	1	0.02			1464092	597025.3

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

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-001	20050623	0	4	Actinium-227	4.6	0.34	0.34		U	1464321	596976.6
SU3-11-001	20050623	0	4	Americium-241	63	0.11	0.11		U	1464321	596976.6
SU3-11-001	20050623	0	4	Cesium-137	3.8	0.06	0.06			1464321	596976.6
SU3-11-001	20050623	0	4	Cobalt-60	0.7	0.11	0.11		U	1464321	596976.6
SU3-11-001	20050623	0	4	Lead-210	7.4	0.87	0.87		U	1464321	596976.6
SU3-11-001	20050623	0	4	Plutonium-238	55	16.59	16.59		U	1464321	596976.6
SU3-11-001	20050623	0	4	Radium-226	2.9	2.59	0.95			1464321	596976.6
SU3-11-001	20050623	0	4	Thorium-230	2.8*	8.91	8.91		U	1464321	596976.6
SU3-11-001	20050623	0	4	Thorium-232	2.1	0.37	0.27			1464321	596976.6
SU3-11-001	20050623	4	8	Actinium-227	4.6	0.43	0.43		U	1464321	596976.6
SU3-11-001	20050623	4	8	Americium-241	63	0.1	0.1		U	1464321	596976.6
SU3-11-001	20050623	4	8	Cesium-137	3.8	0.07	0.07		U	1464321	596976.6
SU3-11-001	20050623	4	8	Cobalt-60	0.7	0.09	0.09		U	1464321	596976.6
SU3-11-001	20050623	4	8	Lead-210	7.4	0.99	0.99		U	1464321	596976.6
SU3-11-001	20050623	4	8	Plutonium-238	55	18.39	18.39		U	1464321	596976.6
SU3-11-001	20050623	4	8	Radium-226	2.9	2.69	0.93			1464321	596976.6
SU3-11-001	20050623	4	8	Thorium-230	2.8*	9.15	9.15		U	1464321	596976.6
SU3-11-001	20050623	4	8	Thorium-232	2.1	0.67	0.17			1464321	596976.6
SU3-11-001	20050623	8	12	Actinium-227	4.6	0.29	0.29		U	1464321	596976.6
SU3-11-001	20050623	8	12	Americium-241	63	0.09	0.09		U	1464321	596976.6
SU3-11-001	20050623	8	12	Cesium-137	3.8	0.05	0.05		U	1464321	596976.6
SU3-11-001	20050623	8	12	Cobalt-60	0.7	0.11	0.11		U	1464321	596976.6
SU3-11-001	20050623	8	12	Lead-210	7.4	1.64	0.71			1464321	596976.6
SU3-11-001	20050623	8	12	Plutonium-238	55	15.58	15.58		U	1464321	596976.6
SU3-11-001	20050623	8	12	Radium-226	2.9	1.76	0.98			1464321	596976.6
SU3-11-001	20050623	8	12	Thorium-230	2.8*	8.84	8.84		U	1464321	596976.6
SU3-11-001	20050623	8	12	Thorium-232	2.1	0.42	0.26			1464321	596976.6
SU3-11-001	20050623	12	16	Actinium-227	4.6	0.38	0.38		U	1464321	596976.6
SU3-11-001	20050623	12	16	Americium-241	63	0.1	0.1		U	1464321	596976.6
SU3-11-001	20050623	12	16	Cesium-137	3.8	0.08	0.08		U	1464321	596976.6
SU3-11-001	20050623	12	16	Cobalt-60	0.7	0.08	0.08		U	1464321	596976.6
SU3-11-001	20050623	12	16	Lead-210	7.4	0.79	0.79		U	1464321	596976.6
SU3-11-001	20050623	12	16	Plutonium-238	55	15.48	15.48		U	1464321	596976.6
SU3-11-001	20050623	12	16	Radium-226	2.9	2.11	0.84			1464321	596976.6
SU3-11-001	20050623	12	16	Thorium-230	2.8*	8.82	8.82		U	1464321	596976.6
SU3-11-001	20050623	12	16	Thorium-232	2.1	0.38	0.21			1464321	596976.6
SU3-11-001	20050623	16	20	Actinium-227	4.6	0.25	0.25		U	1464321	596976.6
SU3-11-001	20050623	16	20	Americium-241	63	0.09	0.09		U	1464321	596976.6
SU3-11-001	20050623	16	20	Cesium-137	3.8	0.07	0.07		U	1464321	596976.6
SU3-11-001	20050623	16	20	Cobalt-60	0.7	0.06	0.06		U	1464321	596976.6
SU3-11-001	20050623	16	20	Lead-210	7.4	1.01	0.66			1464321	596976.6
SU3-11-001	20050623	16	20	Plutonium-238	55	13.42	13.42		U	1464321	596976.6
SU3-11-001	20050623	16	20	Radium-226	2.9	1.09	0.75			1464321	596976.6
SU3-11-001	20050623	16	20	Thorium-230	2.8*	8.04	8.04		U	1464321	596976.6
SU3-11-001	20050623	16	20	Thorium-232	2.1	0.43	0.22			1464321	596976.6
SU3-11-001	20050623	20	24	Actinium-227	4.6	0.26	0.26		U	1464321	596976.6
SU3-11-001	20050623	20	24	Americium-241	63	0.09	0.09		U	1464321	596976.6
SU3-11-001	20050623	20	24	Cesium-137	3.8	0.05	0.05		U	1464321	596976.6
SU3-11-001	20050623	20	24	Cobalt-60	0.7	0.06	0.06		U	1464321	596976.6
SU3-11-001	20050623	20	24	Lead-210	7.4	1.12	0.62			1464321	596976.6
SU3-11-001	20050623	20	24	Plutonium-238	55	13.55	13.55		U	1464321	596976.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-001	20050623	20	24	Radium-226	2.9	1.57	0.75			1464321	596976.6
SU3-11-001	20050623	20	24	Thorium-230	2.8*	7.46	7.46		U	1464321	596976.6
SU3-11-001	20050623	20	24	Thorium-232	2.1	0.24	0.23			1464321	596976.6
SU3-11-001D	20050623	16	20	Actinium-227	4.6	0.29	0.24			1464321	596976.6
SU3-11-001D	20050623	16	20	Americium-241	63	0.09	0.09		U	1464321	596976.6
SU3-11-001D	20050623	16	20	Cesium-137	3.8	0.05	0.05		U	1464321	596976.6
SU3-11-001D	20050623	16	20	Cobalt-60	0.7	0.06	0.06		U	1464321	596976.6
SU3-11-001D	20050623	16	20	Lead-210	7.4	0.78	0.78		U	1464321	596976.6
SU3-11-001D	20050623	16	20	Plutonium-238	55	13.76	13.76		U	1464321	596976.6
SU3-11-001D	20050623	16	20	Radium-226	2.9	1.61	0.83			1464321	596976.6
SU3-11-001D	20050623	16	20	Thorium-230	2.8*	7.92	7.92		U	1464321	596976.6
SU3-11-001D	20050623	16	20	Thorium-232	2.1	0.3	0.3		U	1464321	596976.6
SU3-11-002	20050622	0	4	Actinium-227	4.6	0.3	0.3		U	1464336	596976.6
SU3-11-002	20050622	0	4	Americium-241	63	0.08	0.08		U	1464336	596976.6
SU3-11-002	20050622	0	4	Cesium-137	3.8	0.06	0.06			1464336	596976.6
SU3-11-002	20050622	0	4	Cobalt-60	0.7	0.09	0.09		U	1464336	596976.6
SU3-11-002	20050622	0	4	Lead-210	7.4	1.24	0.79			1464336	596976.6
SU3-11-002	20050622	0	4	Plutonium-238	55	17.95	17.95		U	1464336	596976.6
SU3-11-002	20050622	0	4	Radium-226	2.9	2.37	0.99			1464336	596976.6
SU3-11-002	20050622	0	4	Thorium-230	2.8*	7.65	7.65		U	1464336	596976.6
SU3-11-002	20050622	0	4	Thorium-232	2.1	0.69	0.32			1464336	596976.6
SU3-11-002	20050622	4	8	Actinium-227	4.6	0.3	0.3		U	1464336	596976.6
SU3-11-002	20050622	4	8	Americium-241	63	0.08	0.08		U	1464336	596976.6
SU3-11-002	20050622	4	8	Cesium-137	3.8	0.06	0.06		U	1464336	596976.6
SU3-11-002	20050622	4	8	Cobalt-60	0.7	0.06	0.06		U	1464336	596976.6
SU3-11-002	20050622	4	8	Lead-210	7.4	0.85	0.76			1464336	596976.6
SU3-11-002	20050622	4	8	Plutonium-238	55	17.37	17.37		U	1464336	596976.6
SU3-11-002	20050622	4	8	Radium-226	2.9	1.67	0.93			1464336	596976.6
SU3-11-002	20050622	4	8	Thorium-230	2.8*	7.74	7.74		U	1464336	596976.6
SU3-11-002	20050622	4	8	Thorium-232	2.1	0.76	0.22			1464336	596976.6
SU3-11-002	20050622	8	12	Actinium-227	4.6	0.27	0.27		U	1464336	596976.6
SU3-11-002	20050622	8	12	Americium-241	63	0.07	0.07		U	1464336	596976.6
SU3-11-002	20050622	8	12	Cesium-137	3.8	0.05	0.05		U	1464336	596976.6
SU3-11-002	20050622	8	12	Cobalt-60	0.7	0.09	0.09		U	1464336	596976.6
SU3-11-002	20050622	8	12	Lead-210	7.4	0.75	0.75		U	1464336	596976.6
SU3-11-002	20050622	8	12	Plutonium-238	55	14.65	14.65		U	1464336	596976.6
SU3-11-002	20050622	8	12	Radium-226	2.9	2.19	0.77			1464336	596976.6
SU3-11-002	20050622	8	12	Thorium-230	2.8*	6.52	6.52		U	1464336	596976.6
SU3-11-002	20050622	8	12	Thorium-232	2.1	0.48	0.24			1464336	596976.6
SU3-11-002	20050622	12	16	Actinium-227	4.6	0.27	0.27		U	1464336	596976.6
SU3-11-002	20050622	12	16	Americium-241	63	0.06	0.06		U	1464336	596976.6
SU3-11-002	20050622	12	16	Cesium-137	3.8	0.04	0.04		U	1464336	596976.6
SU3-11-002	20050622	12	16	Cobalt-60	0.7	0.06	0.06		U	1464336	596976.6
SU3-11-002	20050622	12	16	Lead-210	7.4	1.49	0.63			1464336	596976.6
SU3-11-002	20050622	12	16	Plutonium-238	55	13.74	13.74		U	1464336	596976.6
SU3-11-002	20050622	12	16	Radium-226	2.9	1.92	0.74			1464336	596976.6
SU3-11-002	20050622	12	16	Thorium-230	2.8*	7.05	7.05		U	1464336	596976.6
SU3-11-002	20050622	12	16	Thorium-232	2.1	0.26	0.26			1464336	596976.6
SU3-11-002	20050622	16	20	Actinium-227	4.6	0.26	0.26		U	1464336	596976.6
SU3-11-002	20050622	16	20	Americium-241	63	0.07	0.07		U	1464336	596976.6
SU3-11-002	20050622	16	20	Cesium-137	3.8	0.05	0.05		U	1464336	596976.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-002	20050622	16	20	Cobalt-60	0.7	0.09	0.09		U	1464336	596976.6
SU3-11-002	20050622	16	20	Lead-210	7.4	1.09	0.65			1464336	596976.6
SU3-11-002	20050622	16	20	Plutonium-238	55	14.69	14.69		U	1464336	596976.6
SU3-11-002	20050622	16	20	Radium-226	2.9	2.74	0.83			1464336	596976.6
SU3-11-002	20050622	16	20	Thorium-230	2.8*	7.2	7.2		U	1464336	596976.6
SU3-11-002	20050622	16	20	Thorium-232	2.1	0.48	0.2			1464336	596976.6
SU3-11-002	20050622	20	24	Actinium-227	4.6	0.26	0.26		U	1464336	596976.6
SU3-11-002	20050622	20	24	Americium-241	63	0.07	0.07		U	1464336	596976.6
SU3-11-002	20050622	20	24	Cesium-137	3.8	0.04	0.04		U	1464336	596976.6
SU3-11-002	20050622	20	24	Cobalt-60	0.7	0.09	0.09		U	1464336	596976.6
SU3-11-002	20050622	20	24	Lead-210	7.4	1.19	0.7			1464336	596976.6
SU3-11-002	20050622	20	24	Plutonium-238	55	15.99	15.99		U	1464336	596976.6
SU3-11-002	20050622	20	24	Radium-226	2.9	1.61	0.84			1464336	596976.6
SU3-11-002	20050622	20	24	Thorium-230	2.8*	6.84	6.84		U	1464336	596976.6
SU3-11-002	20050622	20	24	Thorium-232	2.1	0.54	0.21			1464336	596976.6
SU3-11-002D	20050622	4	8	Actinium-227	4.6	0.25	0.25		U	1464336	596976.6
SU3-11-002D	20050622	4	8	Americium-241	63	0.09	0.09		U	1464336	596976.6
SU3-11-002D	20050622	4	8	Cesium-137	3.8	0.05	0.05		U	1464336	596976.6
SU3-11-002D	20050622	4	8	Cobalt-60	0.7	0.09	0.09		U	1464336	596976.6
SU3-11-002D	20050622	4	8	Lead-210	7.4	0.95	0.8			1464336	596976.6
SU3-11-002D	20050622	4	8	Plutonium-238	55	18.64	18.64		U	1464336	596976.6
SU3-11-002D	20050622	4	8	Radium-226	2.9	2.17	0.95			1464336	596976.6
SU3-11-002D	20050622	4	8	Thorium-230	2.8*	8.06	8.06		U	1464336	596976.6
SU3-11-002D	20050622	4	8	Thorium-232	2.1	0.52	0.29			1464336	596976.6
SU3-11-003	20050620	0	4	Actinium-227	4.6	0.34	0.32			1464351	596976.6
SU3-11-003	20050620	0	4	Americium-241	63	0.1	0.1		U	1464351	596976.6
SU3-11-003	20050620	0	4	Cesium-137	3.8	0.08	0.07			1464351	596976.6
SU3-11-003	20050620	0	4	Cobalt-60	0.7	0.1	0.1		U	1464351	596976.6
SU3-11-003	20050620	0	4	Lead-210	7.4	1.26	0.9			1464351	596976.6
SU3-11-003	20050620	0	4	Plutonium-238	55	17.01	17.01		U	1464351	596976.6
SU3-11-003	20050620	0	4	Radium-226	2.9	2.27	0.97			1464351	596976.6
SU3-11-003	20050620	0	4	Thorium-230	2.8*	9.73	9.73		U	1464351	596976.6
SU3-11-003	20050620	0	4	Thorium-232	2.1	0.64	0.28			1464351	596976.6
SU3-11-003	20050622	4	8	Actinium-227	4.6	0.25	0.25		U	1464351	596976.6
SU3-11-003	20050622	4	8	Americium-241	63	0.06	0.06		U	1464351	596976.6
SU3-11-003	20050622	4	8	Cesium-137	3.8	0.05	0.05		U	1464351	596976.6
SU3-11-003	20050622	4	8	Cobalt-60	0.7	0.04	0.04			1464351	596976.6
SU3-11-003	20050622	4	8	Lead-210	7.4	0.96	0.57			1464351	596976.6
SU3-11-003	20050622	4	8	Plutonium-238	55	14.74	14.74		U	1464351	596976.6
SU3-11-003	20050622	4	8	Radium-226	2.9	2.08	0.78			1464351	596976.6
SU3-11-003	20050622	4	8	Thorium-230	2.8*	6.89	6.89		U	1464351	596976.6
SU3-11-003	20050622	4	8	Thorium-232	2.1	0.38	0.2			1464351	596976.6
SU3-11-003	20050622	8	12	Actinium-227	4.6	0.27	0.27		U	1464351	596976.6
SU3-11-003	20050622	8	12	Americium-241	63	0.07	0.07		U	1464351	596976.6
SU3-11-003	20050622	8	12	Cesium-137	3.8	0.06	0.06		U	1464351	596976.6
SU3-11-003	20050622	8	12	Cobalt-60	0.7	0.07	0.07		U	1464351	596976.6
SU3-11-003	20050622	8	12	Lead-210	7.4	0.95	0.67			1464351	596976.6
SU3-11-003	20050622	8	12	Plutonium-238	55	16.03	16.03		U	1464351	596976.6
SU3-11-003	20050622	8	12	Radium-226	2.9	1.59	0.77			1464351	596976.6
SU3-11-003	20050622	8	12	Thorium-230	2.8*	7.14	7.14		U	1464351	596976.6
SU3-11-003	20050622	8	12	Thorium-232	2.1	0.56	0.19			1464351	596976.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-004	20050629	0	4	Actinium-227	4.6	0.31	0.31		U	1464193	596989.6
SU3-11-004	20050629	0	4	Americium-241	63	0.08	0.08		U	1464193	596989.6
SU3-11-004	20050629	0	4	Cesium-137	3.8	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	0	4	Cobalt-60	0.7	0.09	0.09		U	1464193	596989.6
SU3-11-004	20050629	0	4	Lead-210	7.4	1.6	0.79			1464193	596989.6
SU3-11-004	20050629	0	4	Plutonium-238	55	17.09	17.09		U	1464193	596989.6
SU3-11-004	20050629	0	4	Radium-226	2.9	2.02	1.05			1464193	596989.6
SU3-11-004	20050629	0	4	Thorium-230	2.8*	7.8	7.8		U	1464193	596989.6
SU3-11-004	20050629	0	4	Thorium-232	2.1	0.52	0.3			1464193	596989.6
SU3-11-004	20050629	4	8	Actinium-227	4.6	0.25	0.25		U	1464193	596989.6
SU3-11-004	20050629	4	8	Americium-241	63	0.07	0.07		U	1464193	596989.6
SU3-11-004	20050629	4	8	Cesium-137	3.8	0.05	0.05		U	1464193	596989.6
SU3-11-004	20050629	4	8	Cobalt-60	0.7	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	4	8	Lead-210	7.4	0.72	0.7			1464193	596989.6
SU3-11-004	20050629	4	8	Plutonium-238	55	15.69	15.69		U	1464193	596989.6
SU3-11-004	20050629	4	8	Radium-226	2.9	2.08	0.89			1464193	596989.6
SU3-11-004	20050629	4	8	Thorium-230	2.8*	7.36	7.36		U	1464193	596989.6
SU3-11-004	20050629	4	8	Thorium-232	2.1	0.48	0.21			1464193	596989.6
SU3-11-004	20050629	8	12	Actinium-227	4.6	0.28	0.28		U	1464193	596989.6
SU3-11-004	20050629	8	12	Americium-241	63	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	8	12	Cesium-137	3.8	0.05	0.05		U	1464193	596989.6
SU3-11-004	20050629	8	12	Cobalt-60	0.7	0.05	0.05		U	1464193	596989.6
SU3-11-004	20050629	8	12	Lead-210	7.4	0.81	0.68			1464193	596989.6
SU3-11-004	20050629	8	12	Plutonium-238	55	15.62	15.62		U	1464193	596989.6
SU3-11-004	20050629	8	12	Radium-226	2.9	1.17	0.85			1464193	596989.6
SU3-11-004	20050629	8	12	Thorium-230	2.8*	6.77	6.77		U	1464193	596989.6
SU3-11-004	20050629	8	12	Thorium-232	2.1	0.37	0.24			1464193	596989.6
SU3-11-004	20050629	12	16	Actinium-227	4.6	0.21	0.21		U	1464193	596989.6
SU3-11-004	20050629	12	16	Americium-241	63	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	12	16	Cesium-137	3.8	0.04	0.04		U	1464193	596989.6
SU3-11-004	20050629	12	16	Cobalt-60	0.7	0.08	0.08		U	1464193	596989.6
SU3-11-004	20050629	12	16	Lead-210	7.4	0.61	0.61		U	1464193	596989.6
SU3-11-004	20050629	12	16	Plutonium-238	55	13.59	13.59		U	1464193	596989.6
SU3-11-004	20050629	12	16	Radium-226	2.9	0.99	0.7			1464193	596989.6
SU3-11-004	20050629	12	16	Thorium-230	2.8*	5.83	5.83		U	1464193	596989.6
SU3-11-004	20050629	12	16	Thorium-232	2.1	0.37	0.17			1464193	596989.6
SU3-11-004	20050629	16	20	Actinium-227	4.6	0.27	0.27		U	1464193	596989.6
SU3-11-004	20050629	16	20	Americium-241	63	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	16	20	Cesium-137	3.8	0.04	0.04		U	1464193	596989.6
SU3-11-004	20050629	16	20	Cobalt-60	0.7	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	16	20	Lead-210	7.4	0.56	0.56		U	1464193	596989.6
SU3-11-004	20050629	16	20	Plutonium-238	55	12.02	12.02		U	1464193	596989.6
SU3-11-004	20050629	16	20	Radium-226	2.9	0.76	0.76		U	1464193	596989.6
SU3-11-004	20050629	16	20	Thorium-230	2.8*	6.4	6.4		U	1464193	596989.6
SU3-11-004	20050629	16	20	Thorium-232	2.1	0.2	0.2		U	1464193	596989.6
SU3-11-004	20050629	20	24	Actinium-227	4.6	0.24	0.24		U	1464193	596989.6
SU3-11-004	20050629	20	24	Americium-241	63	0.06	0.06		U	1464193	596989.6
SU3-11-004	20050629	20	24	Cesium-137	3.8	0.02	0.02			1464193	596989.6
SU3-11-004	20050629	20	24	Cobalt-60	0.7	0.07	0.07		U	1464193	596989.6
SU3-11-004	20050629	20	24	Lead-210	7.4	0.63	0.59			1464193	596989.6
SU3-11-004	20050629	20	24	Plutonium-238	55	11.46	11.46		U	1464193	596989.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-004	20050629	20	24	Radium-226	2.9	1.41	0.58			1464193	596989.6
SU3-11-004	20050629	20	24	Thorium-230	2.8*	5.77	5.77		U	1464193	596989.6
SU3-11-004	20050629	20	24	Thorium-232	2.1	0.29	0.2			1464193	596989.6
SU3-11-005	20050629	0	4	Actinium-227	4.6	0.38	0.38		U	1464208	596989.6
SU3-11-005	20050629	0	4	Americium-241	63	0.08	0.08		U	1464208	596989.6
SU3-11-005	20050629	0	4	Cesium-137	3.8	0.06	0.06		U	1464208	596989.6
SU3-11-005	20050629	0	4	Cobalt-60	0.7	0.08	0.08		U	1464208	596989.6
SU3-11-005	20050629	0	4	Lead-210	7.4	1.2	0.87			1464208	596989.6
SU3-11-005	20050629	0	4	Plutonium-238	55	19.06	19.06		U	1464208	596989.6
SU3-11-005	20050629	0	4	Radium-226	2.9	1.67	1.19			1464208	596989.6
SU3-11-005	20050629	0	4	Thorium-230	2.8*	8.75	8.75		U	1464208	596989.6
SU3-11-005	20050629	0	4	Thorium-232	2.1	0.33	0.33			1464208	596989.6
SU3-11-005	20050629	4	8	Actinium-227	4.6	0.28	0.28		U	1464208	596989.6
SU3-11-005	20050629	4	8	Americium-241	63	0.07	0.07		U	1464208	596989.6
SU3-11-005	20050629	4	8	Cesium-137	3.8	0.04	0.04		U	1464208	596989.6
SU3-11-005	20050629	4	8	Cobalt-60	0.7	0.08	0.08		U	1464208	596989.6
SU3-11-005	20050629	4	8	Lead-210	7.4	0.94	0.73			1464208	596989.6
SU3-11-005	20050629	4	8	Plutonium-238	55	17.15	17.15		U	1464208	596989.6
SU3-11-005	20050629	4	8	Radium-226	2.9	1.91	0.72			1464208	596989.6
SU3-11-005	20050629	4	8	Thorium-230	2.8*	7.49	7.49		U	1464208	596989.6
SU3-11-005	20050629	4	8	Thorium-232	2.1	0.59	0.22			1464208	596989.6
SU3-11-005	20050629	8	12	Actinium-227	4.6	0.25	0.25		U	1464208	596989.6
SU3-11-005	20050629	8	12	Americium-241	63	0.07	0.07		U	1464208	596989.6
SU3-11-005	20050629	8	12	Cesium-137	3.8	0.04	0.04		U	1464208	596989.6
SU3-11-005	20050629	8	12	Cobalt-60	0.7	0.09	0.09		U	1464208	596989.6
SU3-11-005	20050629	8	12	Lead-210	7.4	0.69	0.69		U	1464208	596989.6
SU3-11-005	20050629	8	12	Plutonium-238	55	16.7	16.7		U	1464208	596989.6
SU3-11-005	20050629	8	12	Radium-226	2.9	1.54	0.81			1464208	596989.6
SU3-11-005	20050629	8	12	Thorium-230	2.8*	7.17	7.17		U	1464208	596989.6
SU3-11-005	20050629	8	12	Thorium-232	2.1	0.46	0.24			1464208	596989.6
SU3-11-005	20050629	12	16	Actinium-227	4.6	0.2	0.2		U	1464208	596989.6
SU3-11-005	20050629	12	16	Americium-241	63	0.06	0.06		U	1464208	596989.6
SU3-11-005	20050629	12	16	Cesium-137	3.8	0.04	0.04		U	1464208	596989.6
SU3-11-005	20050629	12	16	Cobalt-60	0.7	0.06	0.06		U	1464208	596989.6
SU3-11-005	20050629	12	16	Lead-210	7.4	0.64	0.64		U	1464208	596989.6
SU3-11-005	20050629	12	16	Plutonium-238	55	12.63	12.63		U	1464208	596989.6
SU3-11-005	20050629	12	16	Radium-226	2.9	1.73	0.64			1464208	596989.6
SU3-11-005	20050629	12	16	Thorium-230	2.8*	5.97	5.97		U	1464208	596989.6
SU3-11-005	20050629	12	16	Thorium-232	2.1	0.4	0.19			1464208	596989.6
SU3-11-005	20050629	16	20	Actinium-227	4.6	0.23	0.23		U	1464208	596989.6
SU3-11-005	20050629	16	20	Americium-241	63	0.06	0.06		U	1464208	596989.6
SU3-11-005	20050629	16	20	Cesium-137	3.8	0.05	0.05		U	1464208	596989.6
SU3-11-005	20050629	16	20	Cobalt-60	0.7	0.05	0.05		U	1464208	596989.6
SU3-11-005	20050629	16	20	Lead-210	7.4	0.62	0.56			1464208	596989.6
SU3-11-005	20050629	16	20	Plutonium-238	55	14.78	14.78		U	1464208	596989.6
SU3-11-005	20050629	16	20	Radium-226	2.9	1.08	0.72			1464208	596989.6
SU3-11-005	20050629	16	20	Thorium-230	2.8*	6.23	6.23		U	1464208	596989.6
SU3-11-005	20050629	16	20	Thorium-232	2.1	0.29	0.22			1464208	596989.6
SU3-11-006	20050628	0	4	Actinium-227	4.6	0.31	0.31		U	1464223	596989.6
SU3-11-006	20050628	0	4	Americium-241	63	0.08	0.08		U	1464223	596989.6
SU3-11-006	20050628	0	4	Cesium-137	3.8	0.05	0.05		U	1464223	596989.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-006	20050628	0	4	Cobalt-60	0.7	0.05	0.05		U	1464223	596989.6
SU3-11-006	20050628	0	4	Lead-210	7.4	0.79	0.79		U	1464223	596989.6
SU3-11-006	20050628	0	4	Plutonium-238	55	19.71	19.71		U	1464223	596989.6
SU3-11-006	20050628	0	4	Radium-226	2.9	2.02	1.01			1464223	596989.6
SU3-11-006	20050628	0	4	Thorium-230	2.8*	8.61	8.61		U	1464223	596989.6
SU3-11-006	20050628	0	4	Thorium-232	2.1	0.62	0.26			1464223	596989.6
SU3-11-006	20050628	4	8	Actinium-227	4.6	0.32	0.32		U	1464223	596989.6
SU3-11-006	20050628	4	8	Americium-241	63	0.08	0.08		U	1464223	596989.6
SU3-11-006	20050628	4	8	Cesium-137	3.8	0.05	0.05		U	1464223	596989.6
SU3-11-006	20050628	4	8	Cobalt-60	0.7	0.09	0.09		U	1464223	596989.6
SU3-11-006	20050628	4	8	Lead-210	7.4	1.07	0.8			1464223	596989.6
SU3-11-006	20050628	4	8	Plutonium-238	55	20.84	20.84		U	1464223	596989.6
SU3-11-006	20050628	4	8	Radium-226	2.9	1.83	1.01			1464223	596989.6
SU3-11-006	20050628	4	8	Thorium-230	2.8*	7.89	7.89		U	1464223	596989.6
SU3-11-006	20050628	4	8	Thorium-232	2.1	0.59	0.24			1464223	596989.6
SU3-11-006	20050628	8	12	Actinium-227	4.6	0.33	0.33		U	1464223	596989.6
SU3-11-006	20050628	8	12	Americium-241	63	0.07	0.07		U	1464223	596989.6
SU3-11-006	20050628	8	12	Cesium-137	3.8	0.05	0.05		U	1464223	596989.6
SU3-11-006	20050628	8	12	Cobalt-60	0.7	0.08	0.08		U	1464223	596989.6
SU3-11-006	20050628	8	12	Lead-210	7.4	0.77	0.77		U	1464223	596989.6
SU3-11-006	20050628	8	12	Plutonium-238	55	17.85	17.85		U	1464223	596989.6
SU3-11-006	20050628	8	12	Radium-226	2.9	1.86	0.93			1464223	596989.6
SU3-11-006	20050628	8	12	Thorium-230	2.8*	7.76	7.76		U	1464223	596989.6
SU3-11-006	20050628	8	12	Thorium-232	2.1	0.66	0.22			1464223	596989.6
SU3-11-006	20050629	12	16	Actinium-227	4.6	0.32	0.32		U	1464223	596989.6
SU3-11-006	20050629	12	16	Americium-241	63	0.07	0.07		U	1464223	596989.6
SU3-11-006	20050629	12	16	Cesium-137	3.8	0.06	0.06		U	1464223	596989.6
SU3-11-006	20050629	12	16	Cobalt-60	0.7	0.07	0.07		U	1464223	596989.6
SU3-11-006	20050629	12	16	Lead-210	7.4	0.79	0.79		U	1464223	596989.6
SU3-11-006	20050629	12	16	Plutonium-238	55	16.21	16.21		U	1464223	596989.6
SU3-11-006	20050629	12	16	Radium-226	2.9	2.05	0.92			1464223	596989.6
SU3-11-006	20050629	12	16	Thorium-230	2.8*	8.16	8.16		U	1464223	596989.6
SU3-11-006	20050629	12	16	Thorium-232	2.1	0.4	0.25			1464223	596989.6
SU3-11-006	20050629	16	20	Actinium-227	4.6	0.34	0.34		U	1464223	596989.6
SU3-11-006	20050629	16	20	Americium-241	63	0.08	0.08		U	1464223	596989.6
SU3-11-006	20050629	16	20	Cesium-137	3.8	0.06	0.06		U	1464223	596989.6
SU3-11-006	20050629	16	20	Cobalt-60	0.7	0.12	0.12		U	1464223	596989.6
SU3-11-006	20050629	16	20	Lead-210	7.4	1.38	0.83			1464223	596989.6
SU3-11-006	20050629	16	20	Plutonium-238	55	19.43	19.43		U	1464223	596989.6
SU3-11-006	20050629	16	20	Radium-226	2.9	1.8	1.02			1464223	596989.6
SU3-11-006	20050629	16	20	Thorium-230	2.8*	8.22	8.22		U	1464223	596989.6
SU3-11-006	20050629	16	20	Thorium-232	2.1	0.63	0.17			1464223	596989.6
SU3-11-006D	20050628	0	4	Actinium-227	4.6	0.33	0.33		U	1464223	596989.6
SU3-11-006D	20050628	0	4	Americium-241	63	0.08	0.08		U	1464223	596989.6
SU3-11-006D	20050628	0	4	Cesium-137	3.8	0.05	0.05			1464223	596989.6
SU3-11-006D	20050628	0	4	Cobalt-60	0.7	0.09	0.09		U	1464223	596989.6
SU3-11-006D	20050628	0	4	Lead-210	7.4	0.93	0.76			1464223	596989.6
SU3-11-006D	20050628	0	4	Plutonium-238	55	20.64	20.64		U	1464223	596989.6
SU3-11-006D	20050628	0	4	Radium-226	2.9	1.12	0.93			1464223	596989.6
SU3-11-006D	20050628	0	4	Thorium-230	2.8*	7.33	7.33		U	1464223	596989.6
SU3-11-006D	20050628	0	4	Thorium-232	2.1	0.51	0.21			1464223	596989.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-007	20050627	0	4	Actinium-227	4.6	0.39	0.39		U	1464238	596989.6
SU3-11-007	20050627	0	4	Americium-241	63	0.08	0.08		U	1464238	596989.6
SU3-11-007	20050627	0	4	Cesium-137	3.8	0.05	0.05		U	1464238	596989.6
SU3-11-007	20050627	0	4	Cobalt-60	0.7	0.12	0.12		U	1464238	596989.6
SU3-11-007	20050627	0	4	Lead-210	7.4	1.44	0.85			1464238	596989.6
SU3-11-007	20050627	0	4	Plutonium-238	55	20.54	20.54		U	1464238	596989.6
SU3-11-007	20050627	0	4	Radium-226	2.9	2.03	1.01			1464238	596989.6
SU3-11-007	20050627	0	4	Thorium-230	2.8*	8.46	8.46		U	1464238	596989.6
SU3-11-007	20050627	0	4	Thorium-232	2.1	0.8	0.22			1464238	596989.6
SU3-11-007	20050628	4	8	Actinium-227	4.6	0.34	0.34		U	1464238	596989.6
SU3-11-007	20050628	4	8	Americium-241	63	0.08	0.08		U	1464238	596989.6
SU3-11-007	20050628	4	8	Cesium-137	3.8	0.06	0.06		U	1464238	596989.6
SU3-11-007	20050628	4	8	Cobalt-60	0.7	0.08	0.08		U	1464238	596989.6
SU3-11-007	20050628	4	8	Lead-210	7.4	0.95	0.79			1464238	596989.6
SU3-11-007	20050628	4	8	Plutonium-238	55	19.06	19.06		U	1464238	596989.6
SU3-11-007	20050628	4	8	Radium-226	2.9	1.8	0.98			1464238	596989.6
SU3-11-007	20050628	4	8	Thorium-230	2.8*	7.53	7.53		U	1464238	596989.6
SU3-11-007	20050628	4	8	Thorium-232	2.1	0.27	0.27		U	1464238	596989.6
SU3-11-007	20050628	8	12	Actinium-227	4.6	0.31	0.31		U	1464238	596989.6
SU3-11-007	20050628	8	12	Americium-241	63	0.07	0.07		U	1464238	596989.6
SU3-11-007	20050628	8	12	Cesium-137	3.8	0.05	0.05		U	1464238	596989.6
SU3-11-007	20050628	8	12	Cobalt-60	0.7	0.04	0.04			1464238	596989.6
SU3-11-007	20050628	8	12	Lead-210	7.4	0.75	0.75		U	1464238	596989.6
SU3-11-007	20050628	8	12	Plutonium-238	55	17.8	17.8		U	1464238	596989.6
SU3-11-007	20050628	8	12	Radium-226	2.9	2.51	0.98			1464238	596989.6
SU3-11-007	20050628	8	12	Thorium-230	2.8*	7.26	7.26		U	1464238	596989.6
SU3-11-007	20050628	8	12	Thorium-232	2.1	0.36	0.24			1464238	596989.6
SU3-11-007	20050628	12	16	Actinium-227	4.6	0.34	0.34		U	1464238	596989.6
SU3-11-007	20050628	12	16	Americium-241	63	0.07	0.07		U	1464238	596989.6
SU3-11-007	20050628	12	16	Cesium-137	3.8	0.04	0.04		U	1464238	596989.6
SU3-11-007	20050628	12	16	Cobalt-60	0.7	0.08	0.08		U	1464238	596989.6
SU3-11-007	20050628	12	16	Lead-210	7.4	0.91	0.75			1464238	596989.6
SU3-11-007	20050628	12	16	Plutonium-238	55	16.93	16.93		U	1464238	596989.6
SU3-11-007	20050628	12	16	Radium-226	2.9	1.58	0.94			1464238	596989.6
SU3-11-007	20050628	12	16	Thorium-230	2.8*	7.45	7.45		U	1464238	596989.6
SU3-11-007	20050628	12	16	Thorium-232	2.1	0.29	0.26			1464238	596989.6
SU3-11-007	20050628	16	20	Actinium-227	4.6	0.34	0.34		U	1464238	596989.6
SU3-11-007	20050628	16	20	Americium-241	63	0.08	0.08		U	1464238	596989.6
SU3-11-007	20050628	16	20	Cesium-137	3.8	0.04	0.04		U	1464238	596989.6
SU3-11-007	20050628	16	20	Cobalt-60	0.7	0.05	0.05		U	1464238	596989.6
SU3-11-007	20050628	16	20	Lead-210	7.4	0.77	0.77		U	1464238	596989.6
SU3-11-007	20050628	16	20	Plutonium-238	55	18.34	18.34		U	1464238	596989.6
SU3-11-007	20050628	16	20	Radium-226	2.9	1.62	0.97			1464238	596989.6
SU3-11-007	20050628	16	20	Thorium-230	2.8*	7.33	7.33		U	1464238	596989.6
SU3-11-007	20050628	16	20	Thorium-232	2.1	0.36	0.26			1464238	596989.6
SU3-11-007	20050628	20	24	Actinium-227	4.6	0.31	0.31		U	1464238	596989.6
SU3-11-007	20050628	20	24	Americium-241	63	0.08	0.08		U	1464238	596989.6
SU3-11-007	20050628	20	24	Cesium-137	3.8	0.06	0.06		U	1464238	596989.6
SU3-11-007	20050628	20	24	Cobalt-60	0.7	0.07	0.07		U	1464238	596989.6
SU3-11-007	20050628	20	24	Lead-210	7.4	0.81	0.81		U	1464238	596989.6
SU3-11-007	20050628	20	24	Plutonium-238	55	19.94	19.94		U	1464238	596989.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-007	20050628	20	24	Radium-226	2.9	1.22	1.02			1464238	596989.6
SU3-11-007	20050628	20	24	Thorium-230	2.8*	8.06	8.06		U	1464238	596989.6
SU3-11-007	20050628	20	24	Thorium-232	2.1	0.59	0.26			1464238	596989.6
SU3-11-008	20050627	0	4	Actinium-227	4.6	0.35	0.35		U	1464253	596989.6
SU3-11-008	20050627	0	4	Americium-241	63	0.09	0.09		U	1464253	596989.6
SU3-11-008	20050627	0	4	Cesium-137	3.8	0.07	0.07		U	1464253	596989.6
SU3-11-008	20050627	0	4	Cobalt-60	0.7	0.08	0.08		U	1464253	596989.6
SU3-11-008	20050627	0	4	Lead-210	7.4	0.82	0.82		U	1464253	596989.6
SU3-11-008	20050627	0	4	Plutonium-238	55	14.68	14.68		U	1464253	596989.6
SU3-11-008	20050627	0	4	Radium-226	2.9	2.14	0.89			1464253	596989.6
SU3-11-008	20050627	0	4	Thorium-230	2.8*	8.18	8.18		U	1464253	596989.6
SU3-11-008	20050627	0	4	Thorium-232	2.1	0.48	0.19			1464253	596989.6
SU3-11-008	20050627	4	8	Actinium-227	4.6	0.35	0.35		U	1464253	596989.6
SU3-11-008	20050627	4	8	Americium-241	63	0.08	0.08		U	1464253	596989.6
SU3-11-008	20050627	4	8	Cesium-137	3.8	0.06	0.06		U	1464253	596989.6
SU3-11-008	20050627	4	8	Cobalt-60	0.7	0.06	0.06		U	1464253	596989.6
SU3-11-008	20050627	4	8	Lead-210	7.4	0.75	0.75		U	1464253	596989.6
SU3-11-008	20050627	4	8	Plutonium-238	55	15.12	15.12		U	1464253	596989.6
SU3-11-008	20050627	4	8	Radium-226	2.9	1.67	0.84			1464253	596989.6
SU3-11-008	20050627	4	8	Thorium-230	2.8*	7.42	7.42		U	1464253	596989.6
SU3-11-008	20050627	4	8	Thorium-232	2.1	0.3	0.23			1464253	596989.6
SU3-11-008	20050627	8	12	Actinium-227	4.6	0.27	0.27		U	1464253	596989.6
SU3-11-008	20050627	8	12	Americium-241	63	0.09	0.09		U	1464253	596989.6
SU3-11-008	20050627	8	12	Cesium-137	3.8	0.07	0.07		U	1464253	596989.6
SU3-11-008	20050627	8	12	Cobalt-60	0.7	0.04	0.04		U	1464253	596989.6
SU3-11-008	20050627	8	12	Lead-210	7.4	0.78	0.78		U	1464253	596989.6
SU3-11-008	20050627	8	12	Plutonium-238	55	12.65	12.65		U	1464253	596989.6
SU3-11-008	20050627	8	12	Radium-226	2.9	1.75	0.87			1464253	596989.6
SU3-11-008	20050627	8	12	Thorium-230	2.8*	8.03	8.03		U	1464253	596989.6
SU3-11-008	20050627	8	12	Thorium-232	2.1	0.26	0.25			1464253	596989.6
SU3-11-008	20050627	12	16	Actinium-227	4.6	0.28	0.28		U	1464253	596989.6
SU3-11-008	20050627	12	16	Americium-241	63	0.08	0.08		U	1464253	596989.6
SU3-11-008	20050627	12	16	Cesium-137	3.8	0.06	0.06		U	1464253	596989.6
SU3-11-008	20050627	12	16	Cobalt-60	0.7	0.07	0.07		U	1464253	596989.6
SU3-11-008	20050627	12	16	Lead-210	7.4	1.09	0.76			1464253	596989.6
SU3-11-008	20050627	12	16	Plutonium-238	55	14.2	14.2		U	1464253	596989.6
SU3-11-008	20050627	12	16	Radium-226	2.9	1.56	0.88			1464253	596989.6
SU3-11-008	20050627	12	16	Thorium-230	2.8*	7.69	7.69		U	1464253	596989.6
SU3-11-008	20050627	12	16	Thorium-232	2.1	0.38	0.23			1464253	596989.6
SU3-11-008	20050627	16	20	Actinium-227	4.6	0.23	0.23		U	1464253	596989.6
SU3-11-008	20050627	16	20	Americium-241	63	0.07	0.07		U	1464253	596989.6
SU3-11-008	20050627	16	20	Cesium-137	3.8	0.05	0.05		U	1464253	596989.6
SU3-11-008	20050627	16	20	Cobalt-60	0.7	0.04	0.04		U	1464253	596989.6
SU3-11-008	20050627	16	20	Lead-210	7.4	0.65	0.65		U	1464253	596989.6
SU3-11-008	20050627	16	20	Plutonium-238	55	12.24	12.24		U	1464253	596989.6
SU3-11-008	20050627	16	20	Radium-226	2.9	1.32	0.73			1464253	596989.6
SU3-11-008	20050627	16	20	Thorium-230	2.8*	7.23	7.23		U	1464253	596989.6
SU3-11-008	20050627	16	20	Thorium-232	2.1	0.5	0.16			1464253	596989.6
SU3-11-008	20050627	20	24	Actinium-227	4.6	0.27	0.27		U	1464253	596989.6
SU3-11-008	20050627	20	24	Americium-241	63	0.08	0.08		U	1464253	596989.6
SU3-11-008	20050627	20	24	Cesium-137	3.8	0.06	0.06		U	1464253	596989.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-008	20050627	20	24	Cobalt-60	0.7	0.06	0.06		U	1464253	596989.6
SU3-11-008	20050627	20	24	Lead-210	7.4	1.21	0.63			1464253	596989.6
SU3-11-008	20050627	20	24	Plutonium-238	55	12.81	12.81		U	1464253	596989.6
SU3-11-008	20050627	20	24	Radium-226	2.9	1.26	0.84			1464253	596989.6
SU3-11-008	20050627	20	24	Thorium-230	2.8*	7.57	7.57		U	1464253	596989.6
SU3-11-008	20050627	20	24	Thorium-232	2.1	0.56	0.17			1464253	596989.6
SU3-11-008	20050627	24	28	Actinium-227	4.6	0.32	0.32		U	1464253	596989.6
SU3-11-008	20050627	24	28	Americium-241	63	0.09	0.09		U	1464253	596989.6
SU3-11-008	20050627	24	28	Cesium-137	3.8	0.09	0.09		U	1464253	596989.6
SU3-11-008	20050627	24	28	Cobalt-60	0.7	0.06	0.05			1464253	596989.6
SU3-11-008	20050627	24	28	Lead-210	7.4	0.89	0.89		U	1464253	596989.6
SU3-11-008	20050627	24	28	Plutonium-238	55	15.88	15.88		U	1464253	596989.6
SU3-11-008	20050627	24	28	Radium-226	2.9	1.16	0.97			1464253	596989.6
SU3-11-008	20050627	24	28	Thorium-230	2.8*	8.59	8.59		U	1464253	596989.6
SU3-11-008	20050627	24	28	Thorium-232	2.1	0.59	0.24			1464253	596989.6
SU3-11-008D	20050627	12	16	Actinium-227	4.6	0.32	0.24			1464253	596989.6
SU3-11-008D	20050627	12	16	Americium-241	63	0.09	0.09		U	1464253	596989.6
SU3-11-008D	20050627	12	16	Cesium-137	3.8	0.07	0.07		U	1464253	596989.6
SU3-11-008D	20050627	12	16	Cobalt-60	0.7	0.06	0.06		U	1464253	596989.6
SU3-11-008D	20050627	12	16	Lead-210	7.4	1.15	0.71			1464253	596989.6
SU3-11-008D	20050627	12	16	Plutonium-238	55	13.34	13.34		U	1464253	596989.6
SU3-11-008D	20050627	12	16	Radium-226	2.9	1.25	0.95			1464253	596989.6
SU3-11-008D	20050627	12	16	Thorium-230	2.8*	8.04	8.04		U	1464253	596989.6
SU3-11-008D	20050627	12	16	Thorium-232	2.1	0.34	0.23			1464253	596989.6
SU3-11-009	20050627	0	4	Actinium-227	4.6	0.34	0.34		U	1464268	596989.6
SU3-11-009	20050627	0	4	Americium-241	63	0.09	0.09		U	1464268	596989.6
SU3-11-009	20050627	0	4	Cesium-137	3.8	0.07	0.07		U	1464268	596989.6
SU3-11-009	20050627	0	4	Cobalt-60	0.7	0.1	0.1		U	1464268	596989.6
SU3-11-009	20050627	0	4	Lead-210	7.4	0.96	0.96		U	1464268	596989.6
SU3-11-009	20050627	0	4	Plutonium-238	55	20.06	20.06		U	1464268	596989.6
SU3-11-009	20050627	0	4	Radium-226	2.9	2.23	1.03			1464268	596989.6
SU3-11-009	20050627	0	4	Thorium-230	2.8*	8.83	8.83		U	1464268	596989.6
SU3-11-009	20050627	0	4	Thorium-232	2.1	0.7	0.19			1464268	596989.6
SU3-11-009	20050627	4	8	Actinium-227	4.6	0.39	0.39		U	1464268	596989.6
SU3-11-009	20050627	4	8	Americium-241	63	0.08	0.08		U	1464268	596989.6
SU3-11-009	20050627	4	8	Cesium-137	3.8	0.05	0.05		U	1464268	596989.6
SU3-11-009	20050627	4	8	Cobalt-60	0.7	0.09	0.09		U	1464268	596989.6
SU3-11-009	20050627	4	8	Lead-210	7.4	1.61	0.81			1464268	596989.6
SU3-11-009	20050627	4	8	Plutonium-238	55	21.24	21.24		U	1464268	596989.6
SU3-11-009	20050627	4	8	Radium-226	2.9	1.97	1.11			1464268	596989.6
SU3-11-009	20050627	4	8	Thorium-230	2.8*	7.63	7.63		U	1464268	596989.6
SU3-11-009	20050627	4	8	Thorium-232	2.1	0.51	0.27			1464268	596989.6
SU3-11-009	20050627	8	12	Actinium-227	4.6	0.35	0.35		U	1464268	596989.6
SU3-11-009	20050627	8	12	Americium-241	63	0.09	0.09		U	1464268	596989.6
SU3-11-009	20050627	8	12	Cesium-137	3.8	0.06	0.06		U	1464268	596989.6
SU3-11-009	20050627	8	12	Cobalt-60	0.7	0.1	0.1		U	1464268	596989.6
SU3-11-009	20050627	8	12	Lead-210	7.4	1.17	0.83			1464268	596989.6
SU3-11-009	20050627	8	12	Plutonium-238	55	20.13	20.13		U	1464268	596989.6
SU3-11-009	20050627	8	12	Radium-226	2.9	2.2	1.02			1464268	596989.6
SU3-11-009	20050627	8	12	Thorium-230	2.8*	8.83	8.83		U	1464268	596989.6
SU3-11-009	20050627	8	12	Thorium-232	2.1	0.44	0.27			1464268	596989.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-009	20050627	12	16	Actinium-227	4.6	0.3	0.3		U	1464268	596989.6
SU3-11-009	20050627	12	16	Americium-241	63	0.07	0.07		U	1464268	596989.6
SU3-11-009	20050627	12	16	Cesium-137	3.8	0.05	0.05		U	1464268	596989.6
SU3-11-009	20050627	12	16	Cobalt-60	0.7	0.05	0.05		U	1464268	596989.6
SU3-11-009	20050627	12	16	Lead-210	7.4	0.73	0.73		U	1464268	596989.6
SU3-11-009	20050627	12	16	Plutonium-238	55	17.58	17.58		U	1464268	596989.6
SU3-11-009	20050627	12	16	Radium-226	2.9	1.49	0.9			1464268	596989.6
SU3-11-009	20050627	12	16	Thorium-230	2.8*	6.92	6.92		U	1464268	596989.6
SU3-11-009	20050627	12	16	Thorium-232	2.1	0.45	0.13			1464268	596989.6
SU3-11-009	20050627	16	20	Actinium-227	4.6	0.3	0.3		U	1464268	596989.6
SU3-11-009	20050627	16	20	Americium-241	63	0.07	0.07		U	1464268	596989.6
SU3-11-009	20050627	16	20	Cesium-137	3.8	0.05	0.05		U	1464268	596989.6
SU3-11-009	20050627	16	20	Cobalt-60	0.7	0.06	0.06		U	1464268	596989.6
SU3-11-009	20050627	16	20	Lead-210	7.4	1.1	0.74			1464268	596989.6
SU3-11-009	20050627	16	20	Plutonium-238	55	17.96	17.96		U	1464268	596989.6
SU3-11-009	20050627	16	20	Radium-226	2.9	1.41	0.99			1464268	596989.6
SU3-11-009	20050627	16	20	Thorium-230	2.8*	7.13	7.13		U	1464268	596989.6
SU3-11-009	20050627	16	20	Thorium-232	2.1	0.39	0.2			1464268	596989.6
SU3-11-009	20050627	20	24	Actinium-227	4.6	0.29	0.29		U	1464268	596989.6
SU3-11-009	20050627	20	24	Americium-241	63	0.07	0.07		U	1464268	596989.6
SU3-11-009	20050627	20	24	Cesium-137	3.8	0.04	0.04		U	1464268	596989.6
SU3-11-009	20050627	20	24	Cobalt-60	0.7	0.06	0.06		U	1464268	596989.6
SU3-11-009	20050627	20	24	Lead-210	7.4	0.68	0.68		U	1464268	596989.6
SU3-11-009	20050627	20	24	Plutonium-238	55	17.73	17.73		U	1464268	596989.6
SU3-11-009	20050627	20	24	Radium-226	2.9	1.42	0.89			1464268	596989.6
SU3-11-009	20050627	20	24	Thorium-230	2.8*	6.97	6.97		U	1464268	596989.6
SU3-11-009	20050627	20	24	Thorium-232	2.1	0.51	0.18			1464268	596989.6
SU3-11-009	20050627	24	28	Actinium-227	4.6	0.44	0.44		U	1464268	596989.6
SU3-11-009	20050627	24	28	Americium-241	63	0.08	0.08		U	1464268	596989.6
SU3-11-009	20050627	24	28	Cesium-137	3.8	0.06	0.06		U	1464268	596989.6
SU3-11-009	20050627	24	28	Cobalt-60	0.7	0.08	0.08		U	1464268	596989.6
SU3-11-009	20050627	24	28	Lead-210	7.4	1.43	0.88			1464268	596989.6
SU3-11-009	20050627	24	28	Plutonium-238	55	24.02	24.02		U	1464268	596989.6
SU3-11-009	20050627	24	28	Radium-226	2.9	2.55	1.31			1464268	596989.6
SU3-11-009	20050627	24	28	Thorium-230	2.8*	8.92	8.92		U	1464268	596989.6
SU3-11-009	20050627	24	28	Thorium-232	2.1	0.48	0.26			1464268	596989.6
SU3-11-009D	20050627	8	12	Actinium-227	4.6	0.32	0.32		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Americium-241	63	0.08	0.08		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Cesium-137	3.8	0.05	0.05		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Cobalt-60	0.7	0.04	0.04		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Lead-210	7.4	0.85	0.85		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Plutonium-238	55	22.66	22.66		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Radium-226	2.9	2.05	1.14			1464268	596989.6
SU3-11-009D	20050627	8	12	Thorium-230	2.8*	8.21	8.21		U	1464268	596989.6
SU3-11-009D	20050627	8	12	Thorium-232	2.1	0.6	0.2			1464268	596989.6
SU3-11-010	20050623	0	4	Actinium-227	4.6	0.26	0.26		U	1464283	596989.6
SU3-11-010	20050623	0	4	Americium-241	63	0.1	0.1	U	U	1464283	596989.6
SU3-11-010	20050623	0	4	Cesium-137	3.8	0.07	0.07		U	1464283	596989.6
SU3-11-010	20050623	0	4	Cobalt-60	0.7	0.08	0.08		U	1464283	596989.6
SU3-11-010	20050623	0	4	Lead-210	7.4	0.87	0.87		U	1464283	596989.6
SU3-11-010	20050623	0	4	Plutonium-238	55	15.53	15.53		U	1464283	596989.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-010	20050623	0	4	Radium-226	2.9	1.81	0.94			1464283	596989.6
SU3-11-010	20050623	0	4	Thorium-230	2.8*	8.45	8.45		U	1464283	596989.6
SU3-11-010	20050623	0	4	Thorium-232	2.1	0.38	0.21			1464283	596989.6
SU3-11-010	20050623	4	8	Actinium-227	4.6	0.28	0.28		U	1464283	596989.6
SU3-11-010	20050623	4	8	Americium-241	63	0.09	0.09		U	1464283	596989.6
SU3-11-010	20050623	4	8	Cesium-137	3.8	0.06	0.06		U	1464283	596989.6
SU3-11-010	20050623	4	8	Cobalt-60	0.7	0.09	0.09		U	1464283	596989.6
SU3-11-010	20050623	4	8	Lead-210	7.4	0.95	0.95		U	1464283	596989.6
SU3-11-010	20050623	4	8	Plutonium-238	55	17	17		U	1464283	596989.6
SU3-11-010	20050623	4	8	Radium-226	2.9	2.53	0.95			1464283	596989.6
SU3-11-010	20050623	4	8	Thorium-230	2.8*	9.28	9.28		U	1464283	596989.6
SU3-11-010	20050623	4	8	Thorium-232	2.1	0.61	0.19			1464283	596989.6
SU3-11-010	20050623	8	12	Actinium-227	4.6	0.37	0.25			1464283	596989.6
SU3-11-010	20050623	8	12	Americium-241	63	0.09	0.09		U	1464283	596989.6
SU3-11-010	20050623	8	12	Cesium-137	3.8	0.07	0.07		U	1464283	596989.6
SU3-11-010	20050623	8	12	Cobalt-60	0.7	0.05	0.05		U	1464283	596989.6
SU3-11-010	20050623	8	12	Lead-210	7.4	0.96	0.77			1464283	596989.6
SU3-11-010	20050623	8	12	Plutonium-238	55	15.87	15.87		U	1464283	596989.6
SU3-11-010	20050623	8	12	Radium-226	2.9	1.49	0.95			1464283	596989.6
SU3-11-010	20050623	8	12	Thorium-230	2.8*	8.85	8.85		U	1464283	596989.6
SU3-11-010	20050623	8	12	Thorium-232	2.1	0.26	0.26		U	1464283	596989.6
SU3-11-010	20050623	12	16	Actinium-227	4.6	0.25	0.25		U	1464283	596989.6
SU3-11-010	20050623	12	16	Americium-241	63	0.08	0.08		U	1464283	596989.6
SU3-11-010	20050623	12	16	Cesium-137	3.8	0.05	0.05		U	1464283	596989.6
SU3-11-010	20050623	12	16	Cobalt-60	0.7	0.06	0.06		U	1464283	596989.6
SU3-11-010	20050623	12	16	Lead-210	7.4	0.76	0.65			1464283	596989.6
SU3-11-010	20050623	12	16	Plutonium-238	55	12.73	12.73		U	1464283	596989.6
SU3-11-010	20050623	12	16	Radium-226	2.9	1.52	0.8			1464283	596989.6
SU3-11-010	20050623	12	16	Thorium-230	2.8*	7.2	7.2		U	1464283	596989.6
SU3-11-010	20050623	12	16	Thorium-232	2.1	0.41	0.19			1464283	596989.6
SU3-11-010	20050623	16	20	Actinium-227	4.6	0.24	0.24		U	1464283	596989.6
SU3-11-010	20050623	16	20	Americium-241	63	0.08	0.08		U	1464283	596989.6
SU3-11-010	20050623	16	20	Cesium-137	3.8	0.06	0.06		U	1464283	596989.6
SU3-11-010	20050623	16	20	Cobalt-60	0.7	0.07	0.07		U	1464283	596989.6
SU3-11-010	20050623	16	20	Lead-210	7.4	0.73	0.68			1464283	596989.6
SU3-11-010	20050623	16	20	Plutonium-238	55	13.46	13.46		U	1464283	596989.6
SU3-11-010	20050623	16	20	Radium-226	2.9	0.85	0.81			1464283	596989.6
SU3-11-010	20050623	16	20	Thorium-230	2.8*	7.18	7.18		U	1464283	596989.6
SU3-11-010	20050623	16	20	Thorium-232	2.1	0.29	0.18			1464283	596989.6
SU3-11-010	20050627	20	24	Actinium-227	4.6	0.26	0.26		U	1464283	596989.6
SU3-11-010	20050627	20	24	Americium-241	63	0.07	0.07		U	1464283	596989.6
SU3-11-010	20050627	20	24	Cesium-137	3.8	0.04	0.04		U	1464283	596989.6
SU3-11-010	20050627	20	24	Cobalt-60	0.7	0.05	0.05		U	1464283	596989.6
SU3-11-010	20050627	20	24	Lead-210	7.4	1.09	0.62			1464283	596989.6
SU3-11-010	20050627	20	24	Plutonium-238	55	15.14	15.14		U	1464283	596989.6
SU3-11-010	20050627	20	24	Radium-226	2.9	1.06	0.72			1464283	596989.6
SU3-11-010	20050627	20	24	Thorium-230	2.8*	6.54	6.54		U	1464283	596989.6
SU3-11-010	20050627	20	24	Thorium-232	2.1	0.32	0.2			1464283	596989.6
SU3-11-011	20050719	0	4	Actinium-227	4.6	0.28	0.28		U	1464358	596989.6
SU3-11-011	20050719	0	4	Americium-241	63	0.09	0.09		U	1464358	596989.6
SU3-11-011	20050719	0	4	Cesium-137	3.8	0.05	0.05		U	1464358	596989.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-011	20050719	0	4	Cobalt-60	0.7	0.08	0.08		U	1464358	596989.6
SU3-11-011	20050719	0	4	Lead-210	7.4	1.2	0.76			1464358	596989.6
SU3-11-011	20050719	0	4	Plutonium-238	55	18.14	18.14		U	1464358	596989.6
SU3-11-011	20050719	0	4	Radium-226	2.9	1.92	0.86			1464358	596989.6
SU3-11-011	20050719	0	4	Thorium-230	2.8*	7.47	7.47		U	1464358	596989.6
SU3-11-011	20050719	0	4	Thorium-232	2.1	1.04	0.23			1464358	596989.6
SU3-11-011	20050719	4	8	Actinium-227	4.6	0.22	0.22		U	1464358	596989.6
SU3-11-011	20050719	4	8	Americium-241	63	0.06	0.06		U	1464358	596989.6
SU3-11-011	20050719	4	8	Cesium-137	3.8	0.04	0.04		U	1464358	596989.6
SU3-11-011	20050719	4	8	Cobalt-60	0.7	0.08	0.08		U	1464358	596989.6
SU3-11-011	20050719	4	8	Lead-210	7.4	0.91	0.57			1464358	596989.6
SU3-11-011	20050719	4	8	Plutonium-238	55	15.57	15.57		U	1464358	596989.6
SU3-11-011	20050719	4	8	Radium-226	2.9	1.77	0.79			1464358	596989.6
SU3-11-011	20050719	4	8	Thorium-230	2.8*	6.34	6.34		U	1464358	596989.6
SU3-11-011	20050719	4	8	Thorium-232	2.1	0.33	0.24			1464358	596989.6
SU3-11-011	20050719	8	12	Actinium-227	4.6	0.33	0.33		U	1464358	596989.6
SU3-11-011	20050719	8	12	Americium-241	63	0.08	0.08		U	1464358	596989.6
SU3-11-011	20050719	8	12	Cesium-137	3.8	0.05	0.05		U	1464358	596989.6
SU3-11-011	20050719	8	12	Cobalt-60	0.7	0.1	0.1		U	1464358	596989.6
SU3-11-011	20050719	8	12	Lead-210	7.4	1.63	0.65			1464358	596989.6
SU3-11-011	20050719	8	12	Plutonium-238	55	13.5	13.5		U	1464358	596989.6
SU3-11-011	20050719	8	12	Radium-226	2.9	1.55	0.87			1464358	596989.6
SU3-11-011	20050719	8	12	Thorium-230	2.8*	7.82	7.82		U	1464358	596989.6
SU3-11-011	20050719	8	12	Thorium-232	2.1	0.61	0.14			1464358	596989.6
SU3-11-011	20050719	12	16	Actinium-227	4.6	0.23	0.23		U	1464358	596989.6
SU3-11-011	20050719	12	16	Americium-241	63	0.07	0.07		U	1464358	596989.6
SU3-11-011	20050719	12	16	Cesium-137	3.8	0.07	0.07		U	1464358	596989.6
SU3-11-011	20050719	12	16	Cobalt-60	0.7	0.07	0.07		U	1464358	596989.6
SU3-11-011	20050719	12	16	Lead-210	7.4	0.73	0.73		U	1464358	596989.6
SU3-11-011	20050719	12	16	Plutonium-238	55	12.59	12.59		U	1464358	596989.6
SU3-11-011	20050719	12	16	Radium-226	2.9	1.52	0.74			1464358	596989.6
SU3-11-011	20050719	12	16	Thorium-230	2.8*	7.27	7.27		U	1464358	596989.6
SU3-11-011	20050719	12	16	Thorium-232	2.1	0.33	0.19			1464358	596989.6
SU3-11-011	20050719	16	20	Actinium-227	4.6	0.32	0.32		U	1464358	596989.6
SU3-11-011	20050719	16	20	Americium-241	63	0.08	0.08		U	1464358	596989.6
SU3-11-011	20050719	16	20	Cesium-137	3.8	0.07	0.07		U	1464358	596989.6
SU3-11-011	20050719	16	20	Cobalt-60	0.7	0.05	0.05		U	1464358	596989.6
SU3-11-011	20050719	16	20	Lead-210	7.4	0.7	0.68			1464358	596989.6
SU3-11-011	20050719	16	20	Plutonium-238	55	13.4	13.4		U	1464358	596989.6
SU3-11-011	20050719	16	20	Radium-226	2.9	1.84	0.73			1464358	596989.6
SU3-11-011	20050719	16	20	Thorium-230	2.8*	6.84	6.84		U	1464358	596989.6
SU3-11-011	20050719	16	20	Thorium-232	2.1	0.47	0.13			1464358	596989.6
SU3-11-011D	20050719	4	8	Actinium-227	4.6	0.24	0.24		U	1464358	596989.6
SU3-11-011D	20050719	4	8	Americium-241	63	0.06	0.06		U	1464358	596989.6
SU3-11-011D	20050719	4	8	Cesium-137	3.8	0.04	0.04		U	1464358	596989.6
SU3-11-011D	20050719	4	8	Cobalt-60	0.7	0.07	0.07		U	1464358	596989.6
SU3-11-011D	20050719	4	8	Lead-210	7.4	0.91	0.61			1464358	596989.6
SU3-11-011D	20050719	4	8	Plutonium-238	55	12.84	12.84		U	1464358	596989.6
SU3-11-011D	20050719	4	8	Radium-226	2.9	2.19	0.74			1464358	596989.6
SU3-11-011D	20050719	4	8	Thorium-230	2.8*	5.99	5.99		U	1464358	596989.6
SU3-11-011D	20050719	4	8	Thorium-232	2.1	0.37	0.24			1464358	596989.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-013	20050706	0	4	Actinium-227	4.6	0.37	0.37		U	1464081	597002.6
SU3-11-013	20050706	0	4	Americium-241	63	0.09	0.09		U	1464081	597002.6
SU3-11-013	20050706	0	4	Cesium-137	3.8	0.06	0.06		U	1464081	597002.6
SU3-11-013	20050706	0	4	Cobalt-60	0.7	0.07	0.07		U	1464081	597002.6
SU3-11-013	20050706	0	4	Lead-210	7.4	1.23	0.77			1464081	597002.6
SU3-11-013	20050706	0	4	Plutonium-238	55	15.47	15.47		U	1464081	597002.6
SU3-11-013	20050706	0	4	Radium-226	2.9	1.62	0.89			1464081	597002.6
SU3-11-013	20050706	0	4	Thorium-230	2.8*	8.06	8.06		U	1464081	597002.6
SU3-11-013	20050706	0	4	Thorium-232	2.1	0.49	0.25			1464081	597002.6
SU3-11-013	20050706	4	8	Actinium-227	4.6	0.27	0.27		U	1464081	597002.6
SU3-11-013	20050706	4	8	Americium-241	63	0.08	0.08		U	1464081	597002.6
SU3-11-013	20050706	4	8	Cesium-137	3.8	0.05	0.05		U	1464081	597002.6
SU3-11-013	20050706	4	8	Cobalt-60	0.7	0.06	0.06		U	1464081	597002.6
SU3-11-013	20050706	4	8	Lead-210	7.4	1.34	0.72			1464081	597002.6
SU3-11-013	20050706	4	8	Plutonium-238	55	16.82	16.82		U	1464081	597002.6
SU3-11-013	20050706	4	8	Radium-226	2.9	2.46	0.81			1464081	597002.6
SU3-11-013	20050706	4	8	Thorium-230	2.8*	7.73	7.73		U	1464081	597002.6
SU3-11-013	20050706	4	8	Thorium-232	2.1	0.97	0.25			1464081	597002.6
SU3-11-013	20050706	8	12	Actinium-227	4.6	0.42	0.42		U	1464081	597002.6
SU3-11-013	20050706	8	12	Americium-241	63	0.1	0.1		U	1464081	597002.6
SU3-11-013	20050706	8	12	Cesium-137	3.8	0.07	0.07		U	1464081	597002.6
SU3-11-013	20050706	8	12	Cobalt-60	0.7	0.07	0.07		U	1464081	597002.6
SU3-11-013	20050706	8	12	Lead-210	7.4	0.99	0.89			1464081	597002.6
SU3-11-013	20050706	8	12	Plutonium-238	55	16.51	16.51		U	1464081	597002.6
SU3-11-013	20050706	8	12	Radium-226	2.9	1.92	0.97			1464081	597002.6
SU3-11-013	20050706	8	12	Thorium-230	2.8*	9.72	9.72		U	1464081	597002.6
SU3-11-013	20050706	8	12	Thorium-232	2.1	0.89	0.21			1464081	597002.6
SU3-11-013	20050706	12	16	Actinium-227	4.6	0.28	0.28		U	1464081	597002.6
SU3-11-013	20050706	12	16	Americium-241	63	0.09	0.09		U	1464081	597002.6
SU3-11-013	20050706	12	16	Cesium-137	3.8	0.05	0.05		U	1464081	597002.6
SU3-11-013	20050706	12	16	Cobalt-60	0.7	0.06	0.06		U	1464081	597002.6
SU3-11-013	20050706	12	16	Lead-210	7.4	1.18	0.75			1464081	597002.6
SU3-11-013	20050706	12	16	Plutonium-238	55	19.46	19.46		U	1464081	597002.6
SU3-11-013	20050706	12	16	Radium-226	2.9	2.26	0.93			1464081	597002.6
SU3-11-013	20050706	12	16	Thorium-230	2.8*	8.37	8.37		U	1464081	597002.6
SU3-11-013	20050706	12	16	Thorium-232	2.1	0.84	0.29			1464081	597002.6
SU3-11-013	20050706	16	28	Actinium-227	4.6	0.24	0.24		U	1464081	597002.6
SU3-11-013	20050706	16	28	Americium-241	63	0.07	0.07		U	1464081	597002.6
SU3-11-013	20050706	16	28	Cesium-137	3.8	0.04	0.04		U	1464081	597002.6
SU3-11-013	20050706	16	28	Cobalt-60	0.7	0.05	0.05		U	1464081	597002.6
SU3-11-013	20050706	16	28	Lead-210	7.4	0.82	0.59			1464081	597002.6
SU3-11-013	20050706	16	28	Plutonium-238	55	13.92	13.92		U	1464081	597002.6
SU3-11-013	20050706	16	28	Radium-226	2.9	1.11	0.71			1464081	597002.6
SU3-11-013	20050706	16	28	Thorium-230	2.8*	6.71	6.71		U	1464081	597002.6
SU3-11-013	20050706	16	28	Thorium-232	2.1	0.32	0.14			1464081	597002.6
SU3-11-013D	20050706	8	12	Actinium-227	4.6	0.41	0.41		U	1464081	597002.6
SU3-11-013D	20050706	8	12	Americium-241	63	0.1	0.1		U	1464081	597002.6
SU3-11-013D	20050706	8	12	Cesium-137	3.8	0.06	0.06		U	1464081	597002.6
SU3-11-013D	20050706	8	12	Cobalt-60	0.7	0.08	0.08		U	1464081	597002.6
SU3-11-013D	20050706	8	12	Lead-210	7.4	1.01	0.88			1464081	597002.6
SU3-11-013D	20050706	8	12	Plutonium-238	55	16.27	16.27		U	1464081	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-013D	20050706	8	12	Radium-226	2.9	2.21	0.9			1464081	597002.6
SU3-11-013D	20050706	8	12	Thorium-230	2.8*	9.3	9.3		U	1464081	597002.6
SU3-11-013D	20050706	8	12	Thorium-232	2.1	0.59	0.31			1464081	597002.6
SU3-11-014	20050706	0	4	Actinium-227	4.6	0.24	0.24		U	1464096	597002.6
SU3-11-014	20050706	0	4	Americium-241	63	0.07	0.07		U	1464096	597002.6
SU3-11-014	20050706	0	4	Cesium-137	3.8	0.05	0.05		U	1464096	597002.6
SU3-11-014	20050706	0	4	Cobalt-60	0.7	0.07	0.07		U	1464096	597002.6
SU3-11-014	20050706	0	4	Lead-210	7.4	0.91	0.61			1464096	597002.6
SU3-11-014	20050706	0	4	Plutonium-238	55	12.01	12.01		U	1464096	597002.6
SU3-11-014	20050706	0	4	Radium-226	2.9	1.53	0.74			1464096	597002.6
SU3-11-014	20050706	0	4	Thorium-230	2.8*	6.43	6.43		U	1464096	597002.6
SU3-11-014	20050706	0	4	Thorium-232	2.1	0.65	0.14			1464096	597002.6
SU3-11-014	20050706	4	8	Actinium-227	4.6	0.39	0.39		U	1464096	597002.6
SU3-11-014	20050706	4	8	Americium-241	63	0.09	0.09		U	1464096	597002.6
SU3-11-014	20050706	4	8	Cesium-137	3.8	0.07	0.07		U	1464096	597002.6
SU3-11-014	20050706	4	8	Cobalt-60	0.7	0.08	0.08		U	1464096	597002.6
SU3-11-014	20050706	4	8	Lead-210	7.4	0.93	0.93		U	1464096	597002.6
SU3-11-014	20050706	4	8	Plutonium-238	55	16.87	16.87		U	1464096	597002.6
SU3-11-014	20050706	4	8	Radium-226	2.9	1.81	0.9			1464096	597002.6
SU3-11-014	20050706	4	8	Thorium-230	2.8*	8.14	8.14		U	1464096	597002.6
SU3-11-014	20050706	4	8	Thorium-232	2.1	0.74	0.25			1464096	597002.6
SU3-11-014	20050706	8	12	Actinium-227	4.6	0.4	0.4		U	1464096	597002.6
SU3-11-014	20050706	8	12	Americium-241	63	0.1	0.1		U	1464096	597002.6
SU3-11-014	20050706	8	12	Cesium-137	3.8	0.07	0.07		U	1464096	597002.6
SU3-11-014	20050706	8	12	Cobalt-60	0.7	0.04	0.04		U	1464096	597002.6
SU3-11-014	20050706	8	12	Lead-210	7.4	1.53	0.75			1464096	597002.6
SU3-11-014	20050706	8	12	Plutonium-238	55	13.8	13.8		U	1464096	597002.6
SU3-11-014	20050706	8	12	Radium-226	2.9	1.81	0.91			1464096	597002.6
SU3-11-014	20050706	8	12	Thorium-230	2.8*	8.16	8.16		U	1464096	597002.6
SU3-11-014	20050706	8	12	Thorium-232	2.1	0.72	0.22			1464096	597002.6
SU3-11-014	20050706	12	16	Actinium-227	4.6	0.33	0.33		U	1464096	597002.6
SU3-11-014	20050706	12	16	Americium-241	63	0.09	0.09		U	1464096	597002.6
SU3-11-014	20050706	12	16	Cesium-137	3.8	0.05	0.05		U	1464096	597002.6
SU3-11-014	20050706	12	16	Cobalt-60	0.7	0.06	0.06		U	1464096	597002.6
SU3-11-014	20050706	12	16	Lead-210	7.4	0.74	0.74		U	1464096	597002.6
SU3-11-014	20050706	12	16	Plutonium-238	55	13.27	13.27		U	1464096	597002.6
SU3-11-014	20050706	12	16	Radium-226	2.9	1.67	0.8			1464096	597002.6
SU3-11-014	20050706	12	16	Thorium-230	2.8*	8.09	8.09		U	1464096	597002.6
SU3-11-014	20050706	12	16	Thorium-232	2.1	0.81	0.12			1464096	597002.6
SU3-11-014	20050706	16	24	Actinium-227	4.6	0.25	0.25		U	1464096	597002.6
SU3-11-014	20050706	16	24	Americium-241	63	0.05	0.05		U	1464096	597002.6
SU3-11-014	20050706	16	24	Cesium-137	3.8	0.04	0.04		U	1464096	597002.6
SU3-11-014	20050706	16	24	Cobalt-60	0.7	0.03	0.03		U	1464096	597002.6
SU3-11-014	20050706	16	24	Lead-210	7.4	0.5	0.5		U	1464096	597002.6
SU3-11-014	20050706	16	24	Plutonium-238	55	9.45	9.45		U	1464096	597002.6
SU3-11-014	20050706	16	24	Radium-226	2.9	0.94	0.57			1464096	597002.6
SU3-11-014	20050706	16	24	Thorium-230	2.8*	5.35	5.35		U	1464096	597002.6
SU3-11-014	20050706	16	24	Thorium-232	2.1	0.23	0.11			1464096	597002.6
SU3-11-014	20050706	24	32	Actinium-227	4.6	0.22	0.22		U	1464096	597002.6
SU3-11-014	20050706	24	32	Americium-241	63	0.07	0.07		U	1464096	597002.6
SU3-11-014	20050706	24	32	Cesium-137	3.8	0.05	0.05		U	1464096	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-014	20050706	24	32	Cobalt-60	0.7	0.08	0.08		U	1464096	597002.6
SU3-11-014	20050706	24	32	Lead-210	7.4	0.68	0.68		U	1464096	597002.6
SU3-11-014	20050706	24	32	Plutonium-238	55	14.19	14.19		U	1464096	597002.6
SU3-11-014	20050706	24	32	Radium-226	2.9	1.32	0.75			1464096	597002.6
SU3-11-014	20050706	24	32	Thorium-230	2.8*	6.28	6.28		U	1464096	597002.6
SU3-11-014	20050706	24	32	Thorium-232	2.1	0.19	0.17			1464096	597002.6
SU3-11-015	20050706	0	4	Actinium-227	4.6	0.3	0.3		U	1464111	597002.6
SU3-11-015	20050706	0	4	Americium-241	63	0.07	0.07		U	1464111	597002.6
SU3-11-015	20050706	0	4	Cesium-137	3.8	0.06	0.06		U	1464111	597002.6
SU3-11-015	20050706	0	4	Cobalt-60	0.7	0.08	0.08		U	1464111	597002.6
SU3-11-015	20050706	0	4	Lead-210	7.4	0.97	0.65			1464111	597002.6
SU3-11-015	20050706	0	4	Plutonium-238	55	15.24	15.24		U	1464111	597002.6
SU3-11-015	20050706	0	4	Radium-226	2.9	1.86	0.7			1464111	597002.6
SU3-11-015	20050706	0	4	Thorium-230	2.8*	6.77	6.77		U	1464111	597002.6
SU3-11-015	20050706	0	4	Thorium-232	2.1	0.48	0.21			1464111	597002.6
SU3-11-015	20050706	4	6	Actinium-227	4.6	0.25	0.18			1464111	597002.6
SU3-11-015	20050706	4	6	Americium-241	63	0.06	0.06		U	1464111	597002.6
SU3-11-015	20050706	4	6	Cesium-137	3.8	0.04	0.04		U	1464111	597002.6
SU3-11-015	20050706	4	6	Cobalt-60	0.7	0.06	0.06		U	1464111	597002.6
SU3-11-015	20050706	4	6	Lead-210	7.4	0.76	0.59			1464111	597002.6
SU3-11-015	20050706	4	6	Plutonium-238	55	13.8	13.8		U	1464111	597002.6
SU3-11-015	20050706	4	6	Radium-226	2.9	2.21	0.72			1464111	597002.6
SU3-11-015	20050706	4	6	Thorium-230	2.8*	6.06	6.06		U	1464111	597002.6
SU3-11-015	20050706	4	6	Thorium-232	2.1	0.75	0.16			1464111	597002.6
SU3-11-015	20050706	6	8	Actinium-227	4.6	0.35	0.35		U	1464111	597002.6
SU3-11-015	20050706	6	8	Americium-241	63	0.1	0.1		U	1464111	597002.6
SU3-11-015	20050706	6	8	Cesium-137	3.8	0.06	0.06		U	1464111	597002.6
SU3-11-015	20050706	6	8	Cobalt-60	0.7	0.11	0.11		U	1464111	597002.6
SU3-11-015	20050706	6	8	Lead-210	7.4	1.47	0.89			1464111	597002.6
SU3-11-015	20050706	6	8	Plutonium-238	55	18.69	18.69		U	1464111	597002.6
SU3-11-015	20050706	6	8	Radium-226	2.9	2.8	1.01			1464111	597002.6
SU3-11-015	20050706	6	8	Thorium-230	2.8*	8.64	8.64		U	1464111	597002.6
SU3-11-015	20050706	6	8	Thorium-232	2.1	1.14	0.23			1464111	597002.6
SU3-11-015	20050706	8	12	Actinium-227	4.6	0.27	0.27		U	1464111	597002.6
SU3-11-015	20050706	8	12	Americium-241	63	0.08	0.08		U	1464111	597002.6
SU3-11-015	20050706	8	12	Cesium-137	3.8	0.06	0.06		U	1464111	597002.6
SU3-11-015	20050706	8	12	Cobalt-60	0.7	0.07	0.07		U	1464111	597002.6
SU3-11-015	20050706	8	12	Lead-210	7.4	1.54	0.66			1464111	597002.6
SU3-11-015	20050706	8	12	Plutonium-238	55	16.35	16.35		U	1464111	597002.6
SU3-11-015	20050706	8	12	Radium-226	2.9	2.25	0.88			1464111	597002.6
SU3-11-015	20050706	8	12	Thorium-230	2.8*	7.54	7.54		U	1464111	597002.6
SU3-11-015	20050706	8	12	Thorium-232	2.1	0.72	0.25			1464111	597002.6
SU3-11-015	20050706	12	20	Actinium-227	4.6	0.21	0.21		U	1464111	597002.6
SU3-11-015	20050706	12	20	Americium-241	63	0.05	0.05		U	1464111	597002.6
SU3-11-015	20050706	12	20	Cesium-137	3.8	0.04	0.04		U	1464111	597002.6
SU3-11-015	20050706	12	20	Cobalt-60	0.7	0.08	0.08		U	1464111	597002.6
SU3-11-015	20050706	12	20	Lead-210	7.4	1.2	0.49			1464111	597002.6
SU3-11-015	20050706	12	20	Plutonium-238	55	11.78	11.78		U	1464111	597002.6
SU3-11-015	20050706	12	20	Radium-226	2.9	1	0.6			1464111	597002.6
SU3-11-015	20050706	12	20	Thorium-230	2.8*	5.59	5.59		U	1464111	597002.6
SU3-11-015	20050706	12	20	Thorium-232	2.1	0.32	0.2			1464111	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-015	20050706	20	24	Actinium-227	4.6	0.31	0.31		U	1464111	597002.6
SU3-11-015	20050706	20	24	Americium-241	63	0.07	0.07		U	1464111	597002.6
SU3-11-015	20050706	20	24	Cesium-137	3.8	0.05	0.05		U	1464111	597002.6
SU3-11-015	20050706	20	24	Cobalt-60	0.7	0.06	0.06		U	1464111	597002.6
SU3-11-015	20050706	20	24	Lead-210	7.4	0.73	0.73		U	1464111	597002.6
SU3-11-015	20050706	20	24	Plutonium-238	55	17.05	17.05		U	1464111	597002.6
SU3-11-015	20050706	20	24	Radium-226	2.9	1.17	0.87			1464111	597002.6
SU3-11-015	20050706	20	24	Thorium-230	2.8*	7.17	7.17		U	1464111	597002.6
SU3-11-015	20050706	20	24	Thorium-232	2.1	0.47	0.18			1464111	597002.6
SU3-11-015D	20050706	8	12	Actinium-227	4.6	0.27	0.27		U	1464111	597002.6
SU3-11-015D	20050706	8	12	Americium-241	63	0.08	0.08		U	1464111	597002.6
SU3-11-015D	20050706	8	12	Cesium-137	3.8	0.05	0.05		U	1464111	597002.6
SU3-11-015D	20050706	8	12	Cobalt-60	0.7	0.05	0.05		U	1464111	597002.6
SU3-11-015D	20050706	8	12	Lead-210	7.4	1.42	0.69			1464111	597002.6
SU3-11-015D	20050706	8	12	Plutonium-238	55	15.89	15.89		U	1464111	597002.6
SU3-11-015D	20050706	8	12	Radium-226	2.9	2.08	0.82			1464111	597002.6
SU3-11-015D	20050706	8	12	Thorium-230	2.8*	7.49	7.49		U	1464111	597002.6
SU3-11-015D	20050706	8	12	Thorium-232	2.1	0.96	0.23			1464111	597002.6
SU3-11-016	20050728	0	4	Actinium-227	4.6	0.31	0.31		U	1464276	597002.6
SU3-11-016	20050728	0	4	Americium-241	63	0.07	0.07		U	1464276	597002.6
SU3-11-016	20050728	0	4	Cesium-137	3.8	0.07	0.06			1464276	597002.6
SU3-11-016	20050728	0	4	Cobalt-60	0.7	0.07	0.07		U	1464276	597002.6
SU3-11-016	20050728	0	4	Lead-210	7.4	1.21	0.76			1464276	597002.6
SU3-11-016	20050728	0	4	Plutonium-238	55	17.07	17.07		U	1464276	597002.6
SU3-11-016	20050728	0	4	Radium-226	2.9	2.19	0.84			1464276	597002.6
SU3-11-016	20050728	0	4	Thorium-230	2.8*	7.33	7.33		U	1464276	597002.6
SU3-11-016	20050728	0	4	Thorium-232	2.1	0.68	0.22			1464276	597002.6
SU3-11-016	20050728	4	8	Actinium-227	4.6	0.22	0.22		U	1464276	597002.6
SU3-11-016	20050728	4	8	Americium-241	63	0.07	0.07		U	1464276	597002.6
SU3-11-016	20050728	4	8	Cesium-137	3.8	0.05	0.05		U	1464276	597002.6
SU3-11-016	20050728	4	8	Cobalt-60	0.7	0.05	0.05		U	1464276	597002.6
SU3-11-016	20050728	4	8	Lead-210	7.4	0.98	0.69			1464276	597002.6
SU3-11-016	20050728	4	8	Plutonium-238	55	15.04	15.04		U	1464276	597002.6
SU3-11-016	20050728	4	8	Radium-226	2.9	2.07	0.71			1464276	597002.6
SU3-11-016	20050728	4	8	Thorium-230	2.8*	6.44	6.44		U	1464276	597002.6
SU3-11-016	20050728	4	8	Thorium-232	2.1	0.53	0.21			1464276	597002.6
SU3-11-016	20050728	8	12	Actinium-227	4.6	0.24	0.24		U	1464276	597002.6
SU3-11-016	20050728	8	12	Americium-241	63	0.06	0.06		U	1464276	597002.6
SU3-11-016	20050728	8	12	Cesium-137	3.8	0.04	0.04		U	1464276	597002.6
SU3-11-016	20050728	8	12	Cobalt-60	0.7	0.07	0.07		U	1464276	597002.6
SU3-11-016	20050728	8	12	Lead-210	7.4	0.6	0.6		U	1464276	597002.6
SU3-11-016	20050728	8	12	Plutonium-238	55	13.45	13.45		U	1464276	597002.6
SU3-11-016	20050728	8	12	Radium-226	2.9	1.75	0.72			1464276	597002.6
SU3-11-016	20050728	8	12	Thorium-230	2.8*	6.12	6.12		U	1464276	597002.6
SU3-11-016	20050728	8	12	Thorium-232	2.1	0.36	0.23			1464276	597002.6
SU3-11-016	20050728	12	16	Actinium-227	4.6	0.22	0.22		U	1464276	597002.6
SU3-11-016	20050728	12	16	Americium-241	63	0.06	0.06		U	1464276	597002.6
SU3-11-016	20050728	12	16	Cesium-137	3.8	0.03	0.03			1464276	597002.6
SU3-11-016	20050728	12	16	Cobalt-60	0.7	0.06	0.06		U	1464276	597002.6
SU3-11-016	20050728	12	16	Lead-210	7.4	0.92	0.51			1464276	597002.6
SU3-11-016	20050728	12	16	Plutonium-238	55	12.22	12.22		U	1464276	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-016	20050728	12	16	Radium-226	2.9	2.12	0.66			1464276	597002.6
SU3-11-016	20050728	12	16	Thorium-230	2.8*	5.67	5.67		U	1464276	597002.6
SU3-11-016	20050728	12	16	Thorium-232	2.1	0.48	0.19			1464276	597002.6
SU3-11-017	20050719	0	4	Actinium-227	4.6	0.24	0.24		U	1464291	597002.6
SU3-11-017	20050719	0	4	Americium-241	63	0.07	0.07		U	1464291	597002.6
SU3-11-017	20050719	0	4	Cesium-137	3.8	0.04	0.04		U	1464291	597002.6
SU3-11-017	20050719	0	4	Cobalt-60	0.7	0.06	0.06		U	1464291	597002.6
SU3-11-017	20050719	0	4	Lead-210	7.4	0.91	0.62			1464291	597002.6
SU3-11-017	20050719	0	4	Plutonium-238	55	14.47	14.47		U	1464291	597002.6
SU3-11-017	20050719	0	4	Radium-226	2.9	1.92	0.68			1464291	597002.6
SU3-11-017	20050719	0	4	Thorium-230	2.8*	6.36	6.36		U	1464291	597002.6
SU3-11-017	20050719	0	4	Thorium-232	2.1	0.57	0.16			1464291	597002.6
SU3-11-017	20050719	4	8	Actinium-227	4.6	0.22	0.22		U	1464291	597002.6
SU3-11-017	20050719	4	8	Americium-241	63	0.06	0.06		U	1464291	597002.6
SU3-11-017	20050719	4	8	Cesium-137	3.8	0.05	0.04			1464291	597002.6
SU3-11-017	20050719	4	8	Cobalt-60	0.7	0.06	0.06		U	1464291	597002.6
SU3-11-017	20050719	4	8	Lead-210	7.4	0.62	0.62		U	1464291	597002.6
SU3-11-017	20050719	4	8	Plutonium-238	55	13.42	13.42		U	1464291	597002.6
SU3-11-017	20050719	4	8	Radium-226	2.9	1.75	0.69			1464291	597002.6
SU3-11-017	20050719	4	8	Thorium-230	2.8*	6.15	6.15		U	1464291	597002.6
SU3-11-017	20050719	4	8	Thorium-232	2.1	0.51	0.19			1464291	597002.6
SU3-11-017	20050719	8	12	Actinium-227	4.6	0.34	0.34		U	1464291	597002.6
SU3-11-017	20050719	8	12	Americium-241	63	0.08	0.08		U	1464291	597002.6
SU3-11-017	20050719	8	12	Cesium-137	3.8	0.06	0.06		U	1464291	597002.6
SU3-11-017	20050719	8	12	Cobalt-60	0.7	0.7	0.7		U	1464291	597002.6
SU3-11-017	20050719	8	12	Lead-210	7.4	0.79	0.68			1464291	597002.6
SU3-11-017	20050719	8	12	Plutonium-238	55	13.68	13.68		U	1464291	597002.6
SU3-11-017	20050719	8	12	Radium-226	2.9	1.49	0.85			1464291	597002.6
SU3-11-017	20050719	8	12	Thorium-230	2.8*	7.24	7.24		U	1464291	597002.6
SU3-11-017	20050719	8	12	Thorium-232	2.1	0.3	0.2			1464291	597002.6
SU3-11-017	20050719	12	16	Actinium-227	4.6	0.26	0.26		U	1464291	597002.6
SU3-11-017	20050719	12	16	Americium-241	63	0.08	0.08		U	1464291	597002.6
SU3-11-017	20050719	12	16	Cesium-137	3.8	0.07	0.07		U	1464291	597002.6
SU3-11-017	20050719	12	16	Cobalt-60	0.7	0.04	0.04		U	1464291	597002.6
SU3-11-017	20050719	12	16	Lead-210	7.4	0.86	0.7			1464291	597002.6
SU3-11-017	20050719	12	16	Plutonium-238	55	12.92	12.92		U	1464291	597002.6
SU3-11-017	20050719	12	16	Radium-226	2.9	1.37	0.85			1464291	597002.6
SU3-11-017	20050719	12	16	Thorium-230	2.8*	7.01	7.01		U	1464291	597002.6
SU3-11-017	20050719	12	16	Thorium-232	2.1	0.4	0.17			1464291	597002.6
SU3-11-017	20050719	16	20	Actinium-227	4.6	0.25	0.25		U	1464291	597002.6
SU3-11-017	20050719	16	20	Americium-241	63	0.08	0.08		U	1464291	597002.6
SU3-11-017	20050719	16	20	Cesium-137	3.8	0.05	0.05		U	1464291	597002.6
SU3-11-017	20050719	16	20	Cobalt-60	0.7	0.04	0.04		U	1464291	597002.6
SU3-11-017	20050719	16	20	Lead-210	7.4	1.29	0.67			1464291	597002.6
SU3-11-017	20050719	16	20	Plutonium-238	55	13.67	13.67		U	1464291	597002.6
SU3-11-017	20050719	16	20	Radium-226	2.9	1.93	0.83			1464291	597002.6
SU3-11-017	20050719	16	20	Thorium-230	2.8*	7.46	7.46		U	1464291	597002.6
SU3-11-017	20050719	16	20	Thorium-232	2.1	0.57	0.19			1464291	597002.6
SU3-11-018	20050720	0	8	Actinium-227	4.6	0.22	0.22		U	1464306	597002.6
SU3-11-018	20050720	0	8	Americium-241	63	0.06	0.06		U	1464306	597002.6
SU3-11-018	20050720	0	8	Cesium-137	3.8	0.04	0.04		U	1464306	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-018	20050720	0	8	Cobalt-60	0.7	0.06	0.06		U	1464306	597002.6
SU3-11-018	20050720	0	8	Lead-210	7.4	0.87	0.58			1464306	597002.6
SU3-11-018	20050720	0	8	Plutonium-238	55	13.54	13.54		U	1464306	597002.6
SU3-11-018	20050720	0	8	Radium-226	2.9	2.2	0.65			1464306	597002.6
SU3-11-018	20050720	0	8	Thorium-230	2.8*	6.34	6.34		U	1464306	597002.6
SU3-11-018	20050720	0	8	Thorium-232	2.1	0.39	0.21			1464306	597002.6
SU3-11-018	20050720	8	12	Actinium-227	4.6	0.23	0.23		U	1464306	597002.6
SU3-11-018	20050720	8	12	Americium-241	63	0.06	0.06		U	1464306	597002.6
SU3-11-018	20050720	8	12	Cesium-137	3.8	0.03	0.03		U	1464306	597002.6
SU3-11-018	20050720	8	12	Cobalt-60	0.7	0.05	0.05		U	1464306	597002.6
SU3-11-018	20050720	8	12	Lead-210	7.4	0.57	0.57		U	1464306	597002.6
SU3-11-018	20050720	8	12	Plutonium-238	55	13.12	13.12		U	1464306	597002.6
SU3-11-018	20050720	8	12	Radium-226	2.9	1.69	0.59			1464306	597002.6
SU3-11-018	20050720	8	12	Thorium-230	2.8*	5.58	5.58		U	1464306	597002.6
SU3-11-018	20050720	8	12	Thorium-232	2.1	0.46	0.18			1464306	597002.6
SU3-11-018	20050720	12	16	Actinium-227	4.6	0.21	0.21		U	1464306	597002.6
SU3-11-018	20050720	12	16	Americium-241	63	0.06	0.06		U	1464306	597002.6
SU3-11-018	20050720	12	16	Cesium-137	3.8	0.05	0.05		U	1464306	597002.6
SU3-11-018	20050720	12	16	Cobalt-60	0.7	0.06	0.06		U	1464306	597002.6
SU3-11-018	20050720	12	16	Lead-210	7.4	0.58	0.58		U	1464306	597002.6
SU3-11-018	20050720	12	16	Plutonium-238	55	12.91	12.91		U	1464306	597002.6
SU3-11-018	20050720	12	16	Radium-226	2.9	1.73	0.67			1464306	597002.6
SU3-11-018	20050720	12	16	Thorium-230	2.8*	5.86	5.86		U	1464306	597002.6
SU3-11-018	20050720	12	16	Thorium-232	2.1	0.41	0.18			1464306	597002.6
SU3-11-018	20050720	24	28	Actinium-227	4.6	0.28	0.28		U	1464306	597002.6
SU3-11-018	20050720	24	28	Americium-241	63	0.08	0.08		U	1464306	597002.6
SU3-11-018	20050720	24	28	Cesium-137	3.8	0.05	0.05		U	1464306	597002.6
SU3-11-018	20050720	24	28	Cobalt-60	0.7	0.08	0.08		U	1464306	597002.6
SU3-11-018	20050720	24	28	Lead-210	7.4	1.14	0.72			1464306	597002.6
SU3-11-018	20050720	24	28	Plutonium-238	55	16.08	16.08		U	1464306	597002.6
SU3-11-018	20050720	24	28	Radium-226	2.9	2.41	0.88			1464306	597002.6
SU3-11-018	20050720	24	28	Thorium-230	2.8*	7.37	7.37		U	1464306	597002.6
SU3-11-018	20050720	24	28	Thorium-232	2.1	0.96	0.17			1464306	597002.6
SU3-11-018D	20050720	12	16	Actinium-227	4.6	0.24	0.24		U	1464306	597002.6
SU3-11-018D	20050720	12	16	Americium-241	63	0.06	0.06		U	1464306	597002.6
SU3-11-018D	20050720	12	16	Cesium-137	3.8	0.05	0.05		U	1464306	597002.6
SU3-11-018D	20050720	12	16	Cobalt-60	0.7	0.07	0.07		U	1464306	597002.6
SU3-11-018D	20050720	12	16	Lead-210	7.4	0.58	0.57			1464306	597002.6
SU3-11-018D	20050720	12	16	Plutonium-238	55	11.8	11.8		U	1464306	597002.6
SU3-11-018D	20050720	12	16	Radium-226	2.9	1.77	0.71			1464306	597002.6
SU3-11-018D	20050720	12	16	Thorium-230	2.8*	5.84	5.84		U	1464306	597002.6
SU3-11-018D	20050720	12	16	Thorium-232	2.1	0.49	0.17			1464306	597002.6
SU3-11-019	20050720	0	4	Actinium-227	4.6	0.22	0.22		U	1464321	597002.6
SU3-11-019	20050720	0	4	Americium-241	63	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	0	4	Cesium-137	3.8	0.04	0.04			1464321	597002.6
SU3-11-019	20050720	0	4	Cobalt-60	0.7	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	0	4	Lead-210	7.4	0.77	0.54			1464321	597002.6
SU3-11-019	20050720	0	4	Plutonium-238	55	12.91	12.91		U	1464321	597002.6
SU3-11-019	20050720	0	4	Radium-226	2.9	0.99	0.76			1464321	597002.6
SU3-11-019	20050720	0	4	Thorium-230	2.8*	6.5	6.5		U	1464321	597002.6
SU3-11-019	20050720	0	4	Thorium-232	2.1	0.42	0.23			1464321	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-019	20050720	4	8	Actinium-227	4.6	0.22	0.22		U	1464321	597002.6
SU3-11-019	20050720	4	8	Americium-241	63	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	4	8	Cesium-137	3.8	0.04	0.04		U	1464321	597002.6
SU3-11-019	20050720	4	8	Cobalt-60	0.7	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	4	8	Lead-210	7.4	0.62	0.62		U	1464321	597002.6
SU3-11-019	20050720	4	8	Plutonium-238	55	12.8	12.8		U	1464321	597002.6
SU3-11-019	20050720	4	8	Radium-226	2.9	1.62	0.65			1464321	597002.6
SU3-11-019	20050720	4	8	Thorium-230	2.8*	6.01	6.01		U	1464321	597002.6
SU3-11-019	20050720	4	8	Thorium-232	2.1	0.53	0.21			1464321	597002.6
SU3-11-019	20050720	8	12	Actinium-227	4.6	0.21	0.21		U	1464321	597002.6
SU3-11-019	20050720	8	12	Americium-241	63	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	8	12	Cesium-137	3.8	0.03	0.03		U	1464321	597002.6
SU3-11-019	20050720	8	12	Cobalt-60	0.7	0.07	0.07		U	1464321	597002.6
SU3-11-019	20050720	8	12	Lead-210	7.4	1.08	0.52			1464321	597002.6
SU3-11-019	20050720	8	12	Plutonium-238	55	12.07	12.07		U	1464321	597002.6
SU3-11-019	20050720	8	12	Radium-226	2.9	1.71	0.67			1464321	597002.6
SU3-11-019	20050720	8	12	Thorium-230	2.8*	5.83	5.83		U	1464321	597002.6
SU3-11-019	20050720	8	12	Thorium-232	2.1	0.29	0.22			1464321	597002.6
SU3-11-019	20050720	12	16	Actinium-227	4.6	0.25	0.25		U	1464321	597002.6
SU3-11-019	20050720	12	16	Americium-241	63	0.05	0.05			1464321	597002.6
SU3-11-019	20050720	12	16	Cesium-137	3.8	0.04	0.04		U	1464321	597002.6
SU3-11-019	20050720	12	16	Cobalt-60	0.7	0.08	0.08		U	1464321	597002.6
SU3-11-019	20050720	12	16	Lead-210	7.4	1.08	0.55			1464321	597002.6
SU3-11-019	20050720	12	16	Plutonium-238	55	12.47	12.47		U	1464321	597002.6
SU3-11-019	20050720	12	16	Radium-226	2.9	1.47	0.68			1464321	597002.6
SU3-11-019	20050720	12	16	Thorium-230	2.8*	6.09	6.09		U	1464321	597002.6
SU3-11-019	20050720	12	16	Thorium-232	2.1	0.5	0.17			1464321	597002.6
SU3-11-019	20050720	16	20	Actinium-227	4.6	0.21	0.21		U	1464321	597002.6
SU3-11-019	20050720	16	20	Americium-241	63	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	16	20	Cesium-137	3.8	0.04	0.04		U	1464321	597002.6
SU3-11-019	20050720	16	20	Cobalt-60	0.7	0.05	0.05		U	1464321	597002.6
SU3-11-019	20050720	16	20	Lead-210	7.4	0.7	0.56			1464321	597002.6
SU3-11-019	20050720	16	20	Plutonium-238	55	12.83	12.83		U	1464321	597002.6
SU3-11-019	20050720	16	20	Radium-226	2.9	1.8	0.66			1464321	597002.6
SU3-11-019	20050720	16	20	Thorium-230	2.8*	5.89	5.89		U	1464321	597002.6
SU3-11-019	20050720	16	20	Thorium-232	2.1	0.33	0.2			1464321	597002.6
SU3-11-019	20050720	20	24	Actinium-227	4.6	0.2	0.2		U	1464321	597002.6
SU3-11-019	20050720	20	24	Americium-241	63	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	20	24	Cesium-137	3.8	0.04	0.04		U	1464321	597002.6
SU3-11-019	20050720	20	24	Cobalt-60	0.7	0.06	0.06		U	1464321	597002.6
SU3-11-019	20050720	20	24	Lead-210	7.4	0.58	0.58		U	1464321	597002.6
SU3-11-019	20050720	20	24	Plutonium-238	55	12.49	12.49		U	1464321	597002.6
SU3-11-019	20050720	20	24	Radium-226	2.9	1.64	0.63			1464321	597002.6
SU3-11-019	20050720	20	24	Thorium-230	2.8*	5.68	5.68		U	1464321	597002.6
SU3-11-019	20050720	20	24	Thorium-232	2.1	0.29	0.2			1464321	597002.6
SU3-11-020	20050706	0	4	Actinium-227	4.6	0.67	0.67		U	1464336	597002.6
SU3-11-020	20050706	0	4	Americium-241	63	0.15	0.15		U	1464336	597002.6
SU3-11-020	20050706	0	4	Cesium-137	3.8	0.13	0.13		U	1464336	597002.6
SU3-11-020	20050706	0	4	Cobalt-60	0.7	0.11	0.11		U	1464336	597002.6
SU3-11-020	20050706	0	4	Lead-210	7.4	1.6	1.6		U	1464336	597002.6
SU3-11-020	20050706	0	4	Plutonium-238	55	30.9	30.9		U	1464336	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-020	20050706	0	4	Radium-226	2.9	2.33	1.71			1464336	597002.6
SU3-11-020	20050706	0	4	Thorium-230	2.8*	14.4	14.4		U	1464336	597002.6
SU3-11-020	20050706	0	4	Thorium-232	2.1	0.6	0.6		U	1464336	597002.6
SU3-11-020	20050706	4	8	Actinium-227	4.6	0.33	0.33		U	1464336	597002.6
SU3-11-020	20050706	4	8	Americium-241	63	0.07	0.07		U	1464336	597002.6
SU3-11-020	20050706	4	8	Cesium-137	3.8	0.04	0.04		U	1464336	597002.6
SU3-11-020	20050706	4	8	Cobalt-60	0.7	0.05	0.05			1464336	597002.6
SU3-11-020	20050706	4	8	Lead-210	7.4	0.97	0.65			1464336	597002.6
SU3-11-020	20050706	4	8	Plutonium-238	55	20.89	20.89		U	1464336	597002.6
SU3-11-020	20050706	4	8	Radium-226	2.9	0.89	0.78			1464336	597002.6
SU3-11-020	20050706	4	8	Thorium-230	2.8*	7.01	7.01		U	1464336	597002.6
SU3-11-020	20050706	4	8	Thorium-232	2.1	0.32	0.17			1464336	597002.6
SU3-11-020	20050706	8	12	Actinium-227	4.6	0.22	0.22		U	1464336	597002.6
SU3-11-020	20050706	8	12	Americium-241	63	0.07	0.07		U	1464336	597002.6
SU3-11-020	20050706	8	12	Cesium-137	3.8	0.05	0.05		U	1464336	597002.6
SU3-11-020	20050706	8	12	Cobalt-60	0.7	0.08	0.08		U	1464336	597002.6
SU3-11-020	20050706	8	12	Lead-210	7.4	0.91	0.6			1464336	597002.6
SU3-11-020	20050706	8	12	Plutonium-238	55	14.1	14.1		U	1464336	597002.6
SU3-11-020	20050706	8	12	Radium-226	2.9	1.82	0.79			1464336	597002.6
SU3-11-020	20050706	8	12	Thorium-230	2.8*	6.46	6.46		U	1464336	597002.6
SU3-11-020	20050706	8	12	Thorium-232	2.1	0.43	0.23			1464336	597002.6
SU3-11-020	20050706	12	16	Actinium-227	4.6	0.23	0.23		U	1464336	597002.6
SU3-11-020	20050706	12	16	Americium-241	63	0.07	0.07		U	1464336	597002.6
SU3-11-020	20050706	12	16	Cesium-137	3.8	0.04	0.04		U	1464336	597002.6
SU3-11-020	20050706	12	16	Cobalt-60	0.7	0.05	0.05		U	1464336	597002.6
SU3-11-020	20050706	12	16	Lead-210	7.4	0.84	0.66			1464336	597002.6
SU3-11-020	20050706	12	16	Plutonium-238	55	14.77	14.77		U	1464336	597002.6
SU3-11-020	20050706	12	16	Radium-226	2.9	1.89	0.77			1464336	597002.6
SU3-11-020	20050706	12	16	Thorium-230	2.8*	6.45	6.45		U	1464336	597002.6
SU3-11-020	20050706	12	16	Thorium-232	2.1	0.56	0.21			1464336	597002.6
SU3-11-020	20050706	16	20	Actinium-227	4.6	0.25	0.23			1464336	597002.6
SU3-11-020	20050706	16	20	Americium-241	63	0.07	0.07		U	1464336	597002.6
SU3-11-020	20050706	16	20	Cesium-137	3.8	0.05	0.05		U	1464336	597002.6
SU3-11-020	20050706	16	20	Cobalt-60	0.7	0.09	0.09		U	1464336	597002.6
SU3-11-020	20050706	16	20	Lead-210	7.4	0.98	0.62			1464336	597002.6
SU3-11-020	20050706	16	20	Plutonium-238	55	15.82	15.82		U	1464336	597002.6
SU3-11-020	20050706	16	20	Radium-226	2.9	1.36	0.82			1464336	597002.6
SU3-11-020	20050706	16	20	Thorium-230	2.8*	6.44	6.44		U	1464336	597002.6
SU3-11-020	20050706	16	20	Thorium-232	2.1	0.33	0.26			1464336	597002.6
SU3-11-020	20050706	20	24	Actinium-227	4.6	0.26	0.26		U	1464336	597002.6
SU3-11-020	20050706	20	24	Americium-241	63	0.07	0.07		U	1464336	597002.6
SU3-11-020	20050706	20	24	Cesium-137	3.8	0.05	0.05		U	1464336	597002.6
SU3-11-020	20050706	20	24	Cobalt-60	0.7	0.05	0.05		U	1464336	597002.6
SU3-11-020	20050706	20	24	Lead-210	7.4	0.95	0.55			1464336	597002.6
SU3-11-020	20050706	20	24	Plutonium-238	55	14.74	14.74		U	1464336	597002.6
SU3-11-020	20050706	20	24	Radium-226	2.9	2.22	0.81			1464336	597002.6
SU3-11-020	20050706	20	24	Thorium-230	2.8*	6.11	6.11		U	1464336	597002.6
SU3-11-020	20050706	20	24	Thorium-232	2.1	0.31	0.2			1464336	597002.6
SU3-11-021	20050706	0	4	Actinium-227	4.6	0.39	0.39		U	1464351	597002.6
SU3-11-021	20050706	0	4	Americium-241	63	0.12	0.12		U	1464351	597002.6
SU3-11-021	20050706	0	4	Cesium-137	3.8	0.1	0.1		U	1464351	597002.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-021	20050706	0	4	Cobalt-60	0.7	0.09	0.09		U	1464351	597002.6
SU3-11-021	20050706	0	4	Lead-210	7.4	1.25	1.25		U	1464351	597002.6
SU3-11-021	20050706	0	4	Plutonium-238	55	19.78	19.78		U	1464351	597002.6
SU3-11-021	20050706	0	4	Radium-226	2.9	1.46	1.32			1464351	597002.6
SU3-11-021	20050706	0	4	Thorium-230	2.8*	9.61	9.61		U	1464351	597002.6
SU3-11-021	20050706	0	4	Thorium-232	2.1	0.88	0.03			1464351	597002.6
SU3-11-021	20050706	4	8	Actinium-227	4.6	0.29	0.29		U	1464351	597002.6
SU3-11-021	20050706	4	8	Americium-241	63	0.1	0.1		U	1464351	597002.6
SU3-11-021	20050706	4	8	Cesium-137	3.8	0.07	0.07		U	1464351	597002.6
SU3-11-021	20050706	4	8	Cobalt-60	0.7	0.09	0.09		U	1464351	597002.6
SU3-11-021	20050706	4	8	Lead-210	7.4	0.89	0.89		U	1464351	597002.6
SU3-11-021	20050706	4	8	Plutonium-238	55	15.77	15.77		U	1464351	597002.6
SU3-11-021	20050706	4	8	Radium-226	2.9	1.81	0.92			1464351	597002.6
SU3-11-021	20050706	4	8	Thorium-230	2.8*	8.55	8.55		U	1464351	597002.6
SU3-11-021	20050706	4	8	Thorium-232	2.1	0.34	0.26			1464351	597002.6
SU3-11-021	20050706	8	12	Actinium-227	4.6	0.31	0.31		U	1464351	597002.6
SU3-11-021	20050706	8	12	Americium-241	63	0.09	0.09		U	1464351	597002.6
SU3-11-021	20050706	8	12	Cesium-137	3.8	0.05	0.05		U	1464351	597002.6
SU3-11-021	20050706	8	12	Cobalt-60	0.7	0.09	0.09		U	1464351	597002.6
SU3-11-021	20050706	8	12	Lead-210	7.4	0.84	0.77			1464351	597002.6
SU3-11-021	20050706	8	12	Plutonium-238	55	14.91	14.91		U	1464351	597002.6
SU3-11-021	20050706	8	12	Radium-226	2.9	1.85	0.83			1464351	597002.6
SU3-11-021	20050706	8	12	Thorium-230	2.8*	7.85	7.85		U	1464351	597002.6
SU3-11-021	20050706	8	12	Thorium-232	2.1	0.26	0.23			1464351	597002.6
SU3-11-021	20050706	12	16	Actinium-227	4.6	0.32	0.32		U	1464351	597002.6
SU3-11-021	20050706	12	16	Americium-241	63	0.09	0.09		U	1464351	597002.6
SU3-11-021	20050706	12	16	Cesium-137	3.8	0.06	0.06		U	1464351	597002.6
SU3-11-021	20050706	12	16	Cobalt-60	0.7	0.07	0.07		U	1464351	597002.6
SU3-11-021	20050706	12	16	Lead-210	7.4	0.85	0.85		U	1464351	597002.6
SU3-11-021	20050706	12	16	Plutonium-238	55	16.51	16.51		U	1464351	597002.6
SU3-11-021	20050706	12	16	Radium-226	2.9	1.93	0.98			1464351	597002.6
SU3-11-021	20050706	12	16	Thorium-230	2.8*	8.74	8.74		U	1464351	597002.6
SU3-11-021	20050706	12	16	Thorium-232	2.1	0.44	0.26			1464351	597002.6
SU3-11-021	20050706	16	20	Actinium-227	4.6	0.4	0.4		U	1464351	597002.6
SU3-11-021	20050706	16	20	Americium-241	63	0.1	0.1		U	1464351	597002.6
SU3-11-021	20050706	16	20	Cesium-137	3.8	0.07	0.07		U	1464351	597002.6
SU3-11-021	20050706	16	20	Cobalt-60	0.7	0.07	0.07		U	1464351	597002.6
SU3-11-021	20050706	16	20	Lead-210	7.4	0.9	0.9		U	1464351	597002.6
SU3-11-021	20050706	16	20	Plutonium-238	55	14.6	14.6		U	1464351	597002.6
SU3-11-021	20050706	16	20	Radium-226	2.9	1.56	0.95			1464351	597002.6
SU3-11-021	20050706	16	20	Thorium-230	2.8*	8.94	8.94		U	1464351	597002.6
SU3-11-021	20050706	16	20	Thorium-232	2.1	0.36	0.26			1464351	597002.6
SU3-11-021	20050706	20	24	Actinium-227	4.6	0.36	0.36		U	1464351	597002.6
SU3-11-021	20050706	20	24	Americium-241	63	0.09	0.09		U	1464351	597002.6
SU3-11-021	20050706	20	24	Cesium-137	3.8	0.04	0.04		U	1464351	597002.6
SU3-11-021	20050706	20	24	Cobalt-60	0.7	0.05	0.05		U	1464351	597002.6
SU3-11-021	20050706	20	24	Lead-210	7.4	0.94	0.78			1464351	597002.6
SU3-11-021	20050706	20	24	Plutonium-238	55	19.94	19.94		U	1464351	597002.6
SU3-11-021	20050706	20	24	Radium-226	2.9	0.88	0.88		U	1464351	597002.6
SU3-11-021	20050706	20	24	Thorium-230	2.8*	7.89	7.89		U	1464351	597002.6
SU3-11-021	20050706	20	24	Thorium-232	2.1	0.38	0.14			1464351	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-021D	20050706	16	20	Actinium-227	4.6	0.45	0.44			1464351	597002.6
SU3-11-021D	20050706	16	20	Americium-241	63	0.11	0.11		U	1464351	597002.6
SU3-11-021D	20050706	16	20	Cesium-137	3.8	0.06	0.06		U	1464351	597002.6
SU3-11-021D	20050706	16	20	Cobalt-60	0.7	0.07	0.07		U	1464351	597002.6
SU3-11-021D	20050706	16	20	Lead-210	7.4	1.45	0.88			1464351	597002.6
SU3-11-021D	20050706	16	20	Plutonium-238	55	26.29	26.29		U	1464351	597002.6
SU3-11-021D	20050706	16	20	Radium-226	2.9	2.12	0.97			1464351	597002.6
SU3-11-021D	20050706	16	20	Thorium-230	2.8*	9.3	9.3		U	1464351	597002.6
SU3-11-021D	20050706	16	20	Thorium-232	2.1	0.6	0.18			1464351	597002.6
SU3-11-022	20050706	0	4	Actinium-227	4.6	0.5	0.5		U	1464366	597002.6
SU3-11-022	20050706	0	4	Americium-241	63	0.12	0.12		U	1464366	597002.6
SU3-11-022	20050706	0	4	Cesium-137	3.8	0.07	0.07		U	1464366	597002.6
SU3-11-022	20050706	0	4	Cobalt-60	0.7	0.1	0.1		U	1464366	597002.6
SU3-11-022	20050706	0	4	Lead-210	7.4	1.29	1.07			1464366	597002.6
SU3-11-022	20050706	0	4	Plutonium-238	55	20.01	20.01		U	1464366	597002.6
SU3-11-022	20050706	0	4	Radium-226	2.9	1.87	1.19			1464366	597002.6
SU3-11-022	20050706	0	4	Thorium-230	2.8*	9.65	9.65		U	1464366	597002.6
SU3-11-022	20050706	0	4	Thorium-232	2.1	0.45	0.45		U	1464366	597002.6
SU3-11-022	20050706	4	8	Actinium-227	4.6	0.31	0.31		U	1464366	597002.6
SU3-11-022	20050706	4	8	Americium-241	63	0.09	0.09		U	1464366	597002.6
SU3-11-022	20050706	4	8	Cesium-137	3.8	0.07	0.07		U	1464366	597002.6
SU3-11-022	20050706	4	8	Cobalt-60	0.7	0.06	0.06		U	1464366	597002.6
SU3-11-022	20050706	4	8	Lead-210	7.4	0.83	0.83		U	1464366	597002.6
SU3-11-022	20050706	4	8	Plutonium-238	55	15.28	15.28		U	1464366	597002.6
SU3-11-022	20050706	4	8	Radium-226	2.9	1.8	0.96			1464366	597002.6
SU3-11-022	20050706	4	8	Thorium-230	2.8*	9.24	9.24		U	1464366	597002.6
SU3-11-022	20050706	4	8	Thorium-232	2.1	0.43	0.28			1464366	597002.6
SU3-11-022	20050706	8	12	Actinium-227	4.6	0.31	0.31		U	1464366	597002.6
SU3-11-022	20050706	8	12	Americium-241	63	0.08	0.08		U	1464366	597002.6
SU3-11-022	20050706	8	12	Cesium-137	3.8	0.06	0.06		U	1464366	597002.6
SU3-11-022	20050706	8	12	Cobalt-60	0.7	0.06	0.06		U	1464366	597002.6
SU3-11-022	20050706	8	12	Lead-210	7.4	0.92	0.72			1464366	597002.6
SU3-11-022	20050706	8	12	Plutonium-238	55	15.37	15.37		U	1464366	597002.6
SU3-11-022	20050706	8	12	Radium-226	2.9	2.01	0.84			1464366	597002.6
SU3-11-022	20050706	8	12	Thorium-230	2.8*	7.76	7.76		U	1464366	597002.6
SU3-11-022	20050706	8	12	Thorium-232	2.1	0.28	0.25			1464366	597002.6
SU3-11-022	20050706	12	16	Actinium-227	4.6	0.34	0.34		U	1464366	597002.6
SU3-11-022	20050706	12	16	Americium-241	63	0.11	0.11		U	1464366	597002.6
SU3-11-022	20050706	12	16	Cesium-137	3.8	0.08	0.08		U	1464366	597002.6
SU3-11-022	20050706	12	16	Cobalt-60	0.7	0.06	0.06		U	1464366	597002.6
SU3-11-022	20050706	12	16	Lead-210	7.4	1.03	0.94			1464366	597002.6
SU3-11-022	20050706	12	16	Plutonium-238	55	17.03	17.03		U	1464366	597002.6
SU3-11-022	20050706	12	16	Radium-226	2.9	1.87	1.12			1464366	597002.6
SU3-11-022	20050706	12	16	Thorium-230	2.8*	9.53	9.53		U	1464366	597002.6
SU3-11-022	20050706	12	16	Thorium-232	2.1	0.64	0.22			1464366	597002.6
SU3-11-022	20050706	16	20	Actinium-227	4.6	0.34	0.34		U	1464366	597002.6
SU3-11-022	20050706	16	20	Americium-241	63	0.08	0.08		U	1464366	597002.6
SU3-11-022	20050706	16	20	Cesium-137	3.8	0.06	0.06		U	1464366	597002.6
SU3-11-022	20050706	16	20	Cobalt-60	0.7	0.08	0.08		U	1464366	597002.6
SU3-11-022	20050706	16	20	Lead-210	7.4	0.79	0.79		U	1464366	597002.6
SU3-11-022	20050706	16	20	Plutonium-238	55	14.52	14.52		U	1464366	597002.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-022	20050706	16	20	Radium-226	2.9	1.52	0.84			1464366	597002.6
SU3-11-022	20050706	16	20	Thorium-230	2.8*	7.51	7.51		U	1464366	597002.6
SU3-11-022	20050706	16	20	Thorium-232	2.1	0.28	0.25			1464366	597002.6
SU3-11-022D	20050706	4	8	Actinium-227	4.6	0.39	0.39		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Americium-241	63	0.13	0.13		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Cesium-137	3.8	0.06	0.06		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Cobalt-60	0.7	0.1	0.1		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Lead-210	7.4	1.09	1.09		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Plutonium-238	55	19.88	19.88		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Radium-226	2.9	1.56	1.15			1464366	597002.6
SU3-11-022D	20050706	4	8	Thorium-230	2.8*	9.8	9.8		U	1464366	597002.6
SU3-11-022D	20050706	4	8	Thorium-232	2.1	0.51	0.28			1464366	597002.6
SU3-11-025	20050728	0	4	Actinium-227	4.6	0.26	0.26		U	1464118	597015.6
SU3-11-025	20050728	0	4	Americium-241	63	0.08	0.07			1464118	597015.6
SU3-11-025	20050728	0	4	Cesium-137	3.8	0.09	0.05			1464118	597015.6
SU3-11-025	20050728	0	4	Cobalt-60	0.7	0.07	0.07		U	1464118	597015.6
SU3-11-025	20050728	0	4	Lead-210	7.4	1.14	0.65			1464118	597015.6
SU3-11-025	20050728	0	4	Plutonium-238	55	15.48	15.48		U	1464118	597015.6
SU3-11-025	20050728	0	4	Radium-226	2.9	1.77	0.8			1464118	597015.6
SU3-11-025	20050728	0	4	Thorium-230	2.8*	7.27	7.27		U	1464118	597015.6
SU3-11-025	20050728	0	4	Thorium-232	2.1	0.68	0.25			1464118	597015.6
SU3-11-025	20050728	4	8	Actinium-227	4.6	0.27	0.27		U	1464118	597015.6
SU3-11-025	20050728	4	8	Americium-241	63	0.07	0.07		U	1464118	597015.6
SU3-11-025	20050728	4	8	Cesium-137	3.8	0.05	0.05		U	1464118	597015.6
SU3-11-025	20050728	4	8	Cobalt-60	0.7	0.07	0.07		U	1464118	597015.6
SU3-11-025	20050728	4	8	Lead-210	7.4	1.09	0.68			1464118	597015.6
SU3-11-025	20050728	4	8	Plutonium-238	55	15.58	15.58		U	1464118	597015.6
SU3-11-025	20050728	4	8	Radium-226	2.9	1.86	0.79			1464118	597015.6
SU3-11-025	20050728	4	8	Thorium-230	2.8*	7.17	7.17		U	1464118	597015.6
SU3-11-025	20050728	4	8	Thorium-232	2.1	0.89	0.26			1464118	597015.6
SU3-11-025	20050728	8	12	Actinium-227	4.6	0.25	0.25		U	1464118	597015.6
SU3-11-025	20050728	8	12	Americium-241	63	0.07	0.07		U	1464118	597015.6
SU3-11-025	20050728	8	12	Cesium-137	3.8	0.04	0.04		U	1464118	597015.6
SU3-11-025	20050728	8	12	Cobalt-60	0.7	0.08	0.08		U	1464118	597015.6
SU3-11-025	20050728	8	12	Lead-210	7.4	1.53	0.68			1464118	597015.6
SU3-11-025	20050728	8	12	Plutonium-238	55	16.5	16.5		U	1464118	597015.6
SU3-11-025	20050728	8	12	Radium-226	2.9	2.6	0.88			1464118	597015.6
SU3-11-025	20050728	8	12	Thorium-230	2.8*	7.64	7.64		U	1464118	597015.6
SU3-11-025	20050728	8	12	Thorium-232	2.1	1.1	0.22			1464118	597015.6
SU3-11-025	20050728	12	16	Actinium-227	4.6	0.24	0.24		U	1464118	597015.6
SU3-11-025	20050728	12	16	Americium-241	63	0.07	0.07		U	1464118	597015.6
SU3-11-025	20050728	12	16	Cesium-137	3.8	0.05	0.05		U	1464118	597015.6
SU3-11-025	20050728	12	16	Cobalt-60	0.7	0.05	0.05		U	1464118	597015.6
SU3-11-025	20050728	12	16	Lead-210	7.4	1.17	0.62			1464118	597015.6
SU3-11-025	20050728	12	16	Plutonium-238	55	14.58	14.58		U	1464118	597015.6
SU3-11-025	20050728	12	16	Radium-226	2.9	2.21	0.82			1464118	597015.6
SU3-11-025	20050728	12	16	Thorium-230	2.8*	6.75	6.75		U	1464118	597015.6
SU3-11-025	20050728	12	16	Thorium-232	2.1	0.9	0.18			1464118	597015.6
SU3-11-025D	20050728	8	12	Actinium-227	4.6	0.26	0.26		U	1464118	597015.6
SU3-11-025D	20050728	8	12	Americium-241	63	0.07	0.07		U	1464118	597015.6
SU3-11-025D	20050728	8	12	Cesium-137	3.8	0.05	0.05		U	1464118	597015.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-025D	20050728	8	12	Cobalt-60	0.7	0.07	0.07		U	1464118	597015.6
SU3-11-025D	20050728	8	12	Lead-210	7.4	1.31	0.67			1464118	597015.6
SU3-11-025D	20050728	8	12	Plutonium-238	55	14.56	14.56		U	1464118	597015.6
SU3-11-025D	20050728	8	12	Radium-226	2.9	1.39	0.75			1464118	597015.6
SU3-11-025D	20050728	8	12	Thorium-230	2.8*	7.06	7.06		U	1464118	597015.6
SU3-11-025D	20050728	8	12	Thorium-232	2.1	1.06	0.23			1464118	597015.6
SU3-11-026	20050728	0	4	Actinium-227	4.6	0.25	0.25		U	1464133	597015.6
SU3-11-026	20050728	0	4	Americium-241	63	0.07	0.07		U	1464133	597015.6
SU3-11-026	20050728	0	4	Cesium-137	3.8	0.05	0.05		U	1464133	597015.6
SU3-11-026	20050728	0	4	Cobalt-60	0.7	0.07	0.07		U	1464133	597015.6
SU3-11-026	20050728	0	4	Lead-210	7.4	1.18	0.62			1464133	597015.6
SU3-11-026	20050728	0	4	Plutonium-238	55	13.84	13.84		U	1464133	597015.6
SU3-11-026	20050728	0	4	Radium-226	2.9	1.92	0.81			1464133	597015.6
SU3-11-026	20050728	0	4	Thorium-230	2.8*	6.87	6.87		U	1464133	597015.6
SU3-11-026	20050728	0	4	Thorium-232	2.1	0.73	0.23			1464133	597015.6
SU3-11-026	20050728	4	8	Actinium-227	4.6	0.25	0.25		U	1464133	597015.6
SU3-11-026	20050728	4	8	Americium-241	63	0.07	0.07		U	1464133	597015.6
SU3-11-026	20050728	4	8	Cesium-137	3.8	0.05	0.04			1464133	597015.6
SU3-11-026	20050728	4	8	Cobalt-60	0.7	0.05	0.05		U	1464133	597015.6
SU3-11-026	20050728	4	8	Lead-210	7.4	0.81	0.64			1464133	597015.6
SU3-11-026	20050728	4	8	Plutonium-238	55	13.93	13.93		U	1464133	597015.6
SU3-11-026	20050728	4	8	Radium-226	2.9	1.05	0.76			1464133	597015.6
SU3-11-026	20050728	4	8	Thorium-230	2.8*	6.97	6.97		U	1464133	597015.6
SU3-11-026	20050728	4	8	Thorium-232	2.1	0.84	0.2			1464133	597015.6
SU3-11-027	20050707	0	4	Actinium-227	4.6	0.32	0.32		U	1464148	597015.6
SU3-11-027	20050707	0	4	Americium-241	63	0.09	0.09		U	1464148	597015.6
SU3-11-027	20050707	0	4	Cesium-137	3.8	0.06	0.06		U	1464148	597015.6
SU3-11-027	20050707	0	4	Cobalt-60	0.7	0.11	0.11		U	1464148	597015.6
SU3-11-027	20050707	0	4	Lead-210	7.4	1.13	0.77			1464148	597015.6
SU3-11-027	20050707	0	4	Plutonium-238	55	17.66	17.66		U	1464148	597015.6
SU3-11-027	20050707	0	4	Radium-226	2.9	2.06	0.91			1464148	597015.6
SU3-11-027	20050707	0	4	Thorium-230	2.8*	7.56	7.56		U	1464148	597015.6
SU3-11-027	20050707	0	4	Thorium-232	2.1	0.55	0.36			1464148	597015.6
SU3-11-027	20050707	4	8	Actinium-227	4.6	0.27	0.27		U	1464148	597015.6
SU3-11-027	20050707	4	8	Americium-241	63	0.08	0.08		U	1464148	597015.6
SU3-11-027	20050707	4	8	Cesium-137	3.8	0.06	0.05			1464148	597015.6
SU3-11-027	20050707	4	8	Cobalt-60	0.7	0.06	0.06		U	1464148	597015.6
SU3-11-027	20050707	4	8	Lead-210	7.4	0.79	0.79		U	1464148	597015.6
SU3-11-027	20050707	4	8	Plutonium-238	55	15.94	15.94		U	1464148	597015.6
SU3-11-027	20050707	4	8	Radium-226	2.9	2.03	0.87			1464148	597015.6
SU3-11-027	20050707	4	8	Thorium-230	2.8*	7.96	7.96		U	1464148	597015.6
SU3-11-027	20050707	4	8	Thorium-232	2.1	0.71	0.27			1464148	597015.6
SU3-11-027	20050707	8	12	Actinium-227	4.6	0.47	0.47		U	1464148	597015.6
SU3-11-027	20050707	8	12	Americium-241	63	0.12	0.12		U	1464148	597015.6
SU3-11-027	20050707	8	12	Cesium-137	3.8	0.06	0.05			1464148	597015.6
SU3-11-027	20050707	8	12	Cobalt-60	0.7	0.09	0.09		U	1464148	597015.6
SU3-11-027	20050707	8	12	Lead-210	7.4	1.21	0.96			1464148	597015.6
SU3-11-027	20050707	8	12	Plutonium-238	55	17.68	17.68		U	1464148	597015.6
SU3-11-027	20050707	8	12	Radium-226	2.9	1.75	1.1			1464148	597015.6
SU3-11-027	20050707	8	12	Thorium-230	2.8*	9.66	9.66		U	1464148	597015.6
SU3-11-027	20050707	8	12	Thorium-232	2.1	0.65	0.34			1464148	597015.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-027	20050707	12	16	Actinium-227	4.6	0.27	0.27		U	1464148	597015.6
SU3-11-027	20050707	12	16	Americium-241	63	0.08	0.08		U	1464148	597015.6
SU3-11-027	20050707	12	16	Cesium-137	3.8	0.06	0.06		U	1464148	597015.6
SU3-11-027	20050707	12	16	Cobalt-60	0.7	0.06	0.06		U	1464148	597015.6
SU3-11-027	20050707	12	16	Lead-210	7.4	0.76	0.76		U	1464148	597015.6
SU3-11-027	20050707	12	16	Plutonium-238	55	12.22	12.22		U	1464148	597015.6
SU3-11-027	20050707	12	16	Radium-226	2.9	1.79	0.85			1464148	597015.6
SU3-11-027	20050707	12	16	Thorium-230	2.8*	7.57	7.57		U	1464148	597015.6
SU3-11-027	20050707	12	16	Thorium-232	2.1	0.58	0.19			1464148	597015.6
SU3-11-027	20050707	16	20	Actinium-227	4.6	0.24	0.24		U	1464148	597015.6
SU3-11-027	20050707	16	20	Americium-241	63	0.08	0.08		U	1464148	597015.6
SU3-11-027	20050707	16	20	Cesium-137	3.8	0.07	0.07		U	1464148	597015.6
SU3-11-027	20050707	16	20	Cobalt-60	0.7	0.06	0.06		U	1464148	597015.6
SU3-11-027	20050707	16	20	Lead-210	7.4	0.67	0.67		U	1464148	597015.6
SU3-11-027	20050707	16	20	Plutonium-238	55	12.74	12.74		U	1464148	597015.6
SU3-11-027	20050707	16	20	Radium-226	2.9	1.44	0.75			1464148	597015.6
SU3-11-027	20050707	16	20	Thorium-230	2.8*	7.03	7.03		U	1464148	597015.6
SU3-11-027	20050707	16	20	Thorium-232	2.1	0.53	0.16			1464148	597015.6
SU3-11-027	20050707	20	24	Actinium-227	4.6	0.26	0.26		U	1464148	597015.6
SU3-11-027	20050707	20	24	Americium-241	63	0.07	0.07		U	1464148	597015.6
SU3-11-027	20050707	20	24	Cesium-137	3.8	0.04	0.04		U	1464148	597015.6
SU3-11-027	20050707	20	24	Cobalt-60	0.7	0.05	0.05		U	1464148	597015.6
SU3-11-027	20050707	20	24	Lead-210	7.4	0.97	0.6			1464148	597015.6
SU3-11-027	20050707	20	24	Plutonium-238	55	12.2	12.2		U	1464148	597015.6
SU3-11-027	20050707	20	24	Radium-226	2.9	1.21	0.73			1464148	597015.6
SU3-11-027	20050707	20	24	Thorium-230	2.8*	6.68	6.68		U	1464148	597015.6
SU3-11-027	20050707	20	24	Thorium-232	2.1	0.33	0.13			1464148	597015.6
SU3-11-027D	20050707	4	8	Actinium-227	4.6	0.29	0.29		U	1464148	597015.6
SU3-11-027D	20050707	4	8	Americium-241	63	0.08	0.08		U	1464148	597015.6
SU3-11-027D	20050707	4	8	Cesium-137	3.8	0.07	0.05			1464148	597015.6
SU3-11-027D	20050707	4	8	Cobalt-60	0.7	0.08	0.08		U	1464148	597015.6
SU3-11-027D	20050707	4	8	Lead-210	7.4	0.86	0.76			1464148	597015.6
SU3-11-027D	20050707	4	8	Plutonium-238	55	15.83	15.83		U	1464148	597015.6
SU3-11-027D	20050707	4	8	Radium-226	2.9	1.3	0.9			1464148	597015.6
SU3-11-027D	20050707	4	8	Thorium-230	2.8*	7.15	7.15		U	1464148	597015.6
SU3-11-027D	20050707	4	8	Thorium-232	2.1	0.85	0.22			1464148	597015.6
SU3-11-028	20050711	0	4	Actinium-227	4.6	0.28	0.28		U	1464163	597015.6
SU3-11-028	20050711	0	4	Americium-241	63	0.08	0.08		U	1464163	597015.6
SU3-11-028	20050711	0	4	Cesium-137	3.8	0.05	0.05		U	1464163	597015.6
SU3-11-028	20050711	0	4	Cobalt-60	0.7	0.01	0.01		U	1464163	597015.6
SU3-11-028	20050711	0	4	Lead-210	7.4	1.17	0.8			1464163	597015.6
SU3-11-028	20050711	0	4	Plutonium-238	55	17.69	17.69		U	1464163	597015.6
SU3-11-028	20050711	0	4	Radium-226	2.9	1.64	0.87			1464163	597015.6
SU3-11-028	20050711	0	4	Thorium-230	2.8*	7.63	7.63		U	1464163	597015.6
SU3-11-028	20050711	0	4	Thorium-232	2.1	0.7	0.25			1464163	597015.6
SU3-11-028	20050711	4	8	Actinium-227	4.6	0.43	0.43		U	1464163	597015.6
SU3-11-028	20050711	4	8	Americium-241	63	0.1	0.1		U	1464163	597015.6
SU3-11-028	20050711	4	8	Cesium-137	3.8	0.08	0.06			1464163	597015.6
SU3-11-028	20050711	4	8	Cobalt-60	0.7	0.07	0.07		U	1464163	597015.6
SU3-11-028	20050711	4	8	Lead-210	7.4	0.89	0.89		U	1464163	597015.6
SU3-11-028	20050711	4	8	Plutonium-238	55	15.44	15.44		U	1464163	597015.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-028	20050711	4	8	Radium-226	2.9	1.93	0.95			1464163	597015.6
SU3-11-028	20050711	4	8	Thorium-230	2.8*	9.07	9.07		U	1464163	597015.6
SU3-11-028	20050711	4	8	Thorium-232	2.1	0.37	0.29			1464163	597015.6
SU3-11-028	20050711	8	12	Actinium-227	4.6	0.34	0.34		U	1464163	597015.6
SU3-11-028	20050711	8	12	Americium-241	63	0.09	0.09		U	1464163	597015.6
SU3-11-028	20050711	8	12	Cesium-137	3.8	0.05	0.05		U	1464163	597015.6
SU3-11-028	20050711	8	12	Cobalt-60	0.7	0.08	0.08		U	1464163	597015.6
SU3-11-028	20050711	8	12	Lead-210	7.4	0.76	0.72			1464163	597015.6
SU3-11-028	20050711	8	12	Plutonium-238	55	14.53	14.53		U	1464163	597015.6
SU3-11-028	20050711	8	12	Radium-226	2.9	2.06	0.8			1464163	597015.6
SU3-11-028	20050711	8	12	Thorium-230	2.8*	8.01	8.01		U	1464163	597015.6
SU3-11-028	20050711	8	12	Thorium-232	2.1	0.84	0.15			1464163	597015.6
SU3-11-028	20050711	12	16	Actinium-227	4.6	0.24	0.24		U	1464163	597015.6
SU3-11-028	20050711	12	16	Americium-241	63	0.07	0.07		U	1464163	597015.6
SU3-11-028	20050711	12	16	Cesium-137	3.8	0.06	0.06		U	1464163	597015.6
SU3-11-028	20050711	12	16	Cobalt-60	0.7	0.08	0.08		U	1464163	597015.6
SU3-11-028	20050711	12	16	Lead-210	7.4	0.67	0.67		U	1464163	597015.6
SU3-11-028	20050711	12	16	Plutonium-238	55	12.63	12.63		U	1464163	597015.6
SU3-11-028	20050711	12	16	Radium-226	2.9	1.44	0.77			1464163	597015.6
SU3-11-028	20050711	12	16	Thorium-230	2.8*	7.08	7.08		U	1464163	597015.6
SU3-11-028	20050711	12	16	Thorium-232	2.1	0.61	0.12			1464163	597015.6
SU3-11-028	20050711	16	20	Actinium-227	4.6	0.29	0.29		U	1464163	597015.6
SU3-11-028	20050711	16	20	Americium-241	63	0.06	0.06		U	1464163	597015.6
SU3-11-028	20050711	16	20	Cesium-137	3.8	0.04	0.04		U	1464163	597015.6
SU3-11-028	20050711	16	20	Cobalt-60	0.7	0.07	0.07		U	1464163	597015.6
SU3-11-028	20050711	16	20	Lead-210	7.4	0.64	0.64		U	1464163	597015.6
SU3-11-028	20050711	16	20	Plutonium-238	55	11.09	11.09		U	1464163	597015.6
SU3-11-028	20050711	16	20	Radium-226	2.9	1.37	0.62			1464163	597015.6
SU3-11-028	20050711	16	20	Thorium-230	2.8*	6.44	6.44		U	1464163	597015.6
SU3-11-028	20050711	16	20	Thorium-232	2.1	0.19	0.19		U	1464163	597015.6
SU3-11-028	20050711	20	24	Actinium-227	4.6	0.21	0.21		U	1464163	597015.6
SU3-11-028	20050711	20	24	Americium-241	63	0.06	0.06		U	1464163	597015.6
SU3-11-028	20050711	20	24	Cesium-137	3.8	0.05	0.05		U	1464163	597015.6
SU3-11-028	20050711	20	24	Cobalt-60	0.7	0.06	0.06		U	1464163	597015.6
SU3-11-028	20050711	20	24	Lead-210	7.4	0.69	0.51			1464163	597015.6
SU3-11-028	20050711	20	24	Plutonium-238	55	11.46	11.46		U	1464163	597015.6
SU3-11-028	20050711	20	24	Radium-226	2.9	0.72	0.72		U	1464163	597015.6
SU3-11-028	20050711	20	24	Thorium-230	2.8*	6.65	6.65		U	1464163	597015.6
SU3-11-028	20050711	20	24	Thorium-232	2.1	0.3	0.15			1464163	597015.6
SU3-11-028D	20050711	4	8	Actinium-227	4.6	0.39	0.39		U	1464163	597015.6
SU3-11-028D	20050711	4	8	Americium-241	63	0.1	0.1		U	1464163	597015.6
SU3-11-028D	20050711	4	8	Cesium-137	3.8	0.06	0.06			1464163	597015.6
SU3-11-028D	20050711	4	8	Cobalt-60	0.7	0.07	0.07		U	1464163	597015.6
SU3-11-028D	20050711	4	8	Lead-210	7.4	0.94	0.94		U	1464163	597015.6
SU3-11-028D	20050711	4	8	Plutonium-238	55	15.63	15.63		U	1464163	597015.6
SU3-11-028D	20050711	4	8	Radium-226	2.9	1.64	0.92			1464163	597015.6
SU3-11-028D	20050711	4	8	Thorium-230	2.8*	8.94	8.94		U	1464163	597015.6
SU3-11-028D	20050711	4	8	Thorium-232	2.1	0.44	0.28			1464163	597015.6
SU3-11-029	20050711	0	4	Actinium-227	4.6	0.27	0.27		U	1464178	597015.6
SU3-11-029	20050711	0	4	Americium-241	63	0.07	0.07		U	1464178	597015.6
SU3-11-029	20050711	0	4	Cesium-137	3.8	0.04	0.04		U	1464178	597015.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-029	20050711	0	4	Cobalt-60	0.7	0.07	0.07		U	1464178	597015.6
SU3-11-029	20050711	0	4	Lead-210	7.4	0.95	0.65			1464178	597015.6
SU3-11-029	20050711	0	4	Plutonium-238	55	15.2	15.2		U	1464178	597015.6
SU3-11-029	20050711	0	4	Radium-226	2.9	2.29	0.74			1464178	597015.6
SU3-11-029	20050711	0	4	Thorium-230	2.8*	7.21	7.21		U	1464178	597015.6
SU3-11-029	20050711	0	4	Thorium-232	2.1	0.67	0.2			1464178	597015.6
SU3-11-029	20050711	4	8	Actinium-227	4.6	0.3	0.3		U	1464178	597015.6
SU3-11-029	20050711	4	8	Americium-241	63	0.1	0.1		U	1464178	597015.6
SU3-11-029	20050711	4	8	Cesium-137	3.8	0.05	0.05		U	1464178	597015.6
SU3-11-029	20050711	4	8	Cobalt-60	0.7	0.07	0.07		U	1464178	597015.6
SU3-11-029	20050711	4	8	Lead-210	7.4	0.86	0.86		U	1464178	597015.6
SU3-11-029	20050711	4	8	Plutonium-238	55	15.14	15.14		U	1464178	597015.6
SU3-11-029	20050711	4	8	Radium-226	2.9	1.76	0.9			1464178	597015.6
SU3-11-029	20050711	4	8	Thorium-230	2.8*	8.39	8.39		U	1464178	597015.6
SU3-11-029	20050711	4	8	Thorium-232	2.1	0.9	0.2			1464178	597015.6
SU3-11-029	20050711	8	12	Actinium-227	4.6	0.24	0.24		U	1464178	597015.6
SU3-11-029	20050711	8	12	Americium-241	63	0.07	0.07		U	1464178	597015.6
SU3-11-029	20050711	8	12	Cesium-137	3.8	0.04	0.04		U	1464178	597015.6
SU3-11-029	20050711	8	12	Cobalt-60	0.7	0.06	0.06		U	1464178	597015.6
SU3-11-029	20050711	8	12	Lead-210	7.4	0.65	0.65		U	1464178	597015.6
SU3-11-029	20050711	8	12	Plutonium-238	55	12.17	12.17		U	1464178	597015.6
SU3-11-029	20050711	8	12	Radium-226	2.9	0.98	0.76			1464178	597015.6
SU3-11-029	20050711	8	12	Thorium-230	2.8*	6.71	6.71		U	1464178	597015.6
SU3-11-029	20050711	8	12	Thorium-232	2.1	0.21	0.17			1464178	597015.6
SU3-11-029	20050711	12	16	Actinium-227	4.6	0.22	0.22		U	1464178	597015.6
SU3-11-029	20050711	12	16	Americium-241	63	0.07	0.07		U	1464178	597015.6
SU3-11-029	20050711	12	16	Cesium-137	3.8	0.04	0.04		U	1464178	597015.6
SU3-11-029	20050711	12	16	Cobalt-60	0.7	0.08	0.08		U	1464178	597015.6
SU3-11-029	20050711	12	16	Lead-210	7.4	0.58	0.58		U	1464178	597015.6
SU3-11-029	20050711	12	16	Plutonium-238	55	11.88	11.88		U	1464178	597015.6
SU3-11-029	20050711	12	16	Radium-226	2.9	1.29	0.67			1464178	597015.6
SU3-11-029	20050711	12	16	Thorium-230	2.8*	6.8	6.8		U	1464178	597015.6
SU3-11-029	20050711	12	16	Thorium-232	2.1	0.42	0.16			1464178	597015.6
SU3-11-029	20050712	16	20	Actinium-227	4.6	0.22	0.22		U	1464178	597015.6
SU3-11-029	20050712	16	20	Americium-241	63	0.06	0.06		U	1464178	597015.6
SU3-11-029	20050712	16	20	Cesium-137	3.8	0.05	0.05		U	1464178	597015.6
SU3-11-029	20050712	16	20	Cobalt-60	0.7	0.06	0.06		U	1464178	597015.6
SU3-11-029	20050712	16	20	Lead-210	7.4	0.58	0.58		U	1464178	597015.6
SU3-11-029	20050712	16	20	Plutonium-238	55	11.01	11.01		U	1464178	597015.6
SU3-11-029	20050712	16	20	Radium-226	2.9	1.44	0.63			1464178	597015.6
SU3-11-029	20050712	16	20	Thorium-230	2.8*	6.22	6.22		U	1464178	597015.6
SU3-11-029	20050712	16	20	Thorium-232	2.1	0.35	0.14			1464178	597015.6
SU3-11-030	20050712	0	4	Actinium-227	4.6	0.27	0.27		U	1464193	597015.6
SU3-11-030	20050712	0	4	Americium-241	63	0.07	0.07		U	1464193	597015.6
SU3-11-030	20050712	0	4	Cesium-137	3.8	0.05	0.03			1464193	597015.6
SU3-11-030	20050712	0	4	Cobalt-60	0.7	0.08	0.08		U	1464193	597015.6
SU3-11-030	20050712	0	4	Lead-210	7.4	0.9	0.69			1464193	597015.6
SU3-11-030	20050712	0	4	Plutonium-238	55	14.46	14.46		U	1464193	597015.6
SU3-11-030	20050712	0	4	Radium-226	2.9	2.05	0.79			1464193	597015.6
SU3-11-030	20050712	0	4	Thorium-230	2.8*	7.2	7.2		U	1464193	597015.6
SU3-11-030	20050712	0	4	Thorium-232	2.1	0.69	0.22			1464193	597015.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-030	20050712	4	8	Actinium-227	4.6	0.39	0.39		U	1464193	597015.6
SU3-11-030	20050712	4	8	Americium-241	63	0.08	0.08		U	1464193	597015.6
SU3-11-030	20050712	4	8	Cesium-137	3.8	0.06	0.06		U	1464193	597015.6
SU3-11-030	20050712	4	8	Cobalt-60	0.7	0.08	0.08		U	1464193	597015.6
SU3-11-030	20050712	4	8	Lead-210	7.4	0.8	0.8		U	1464193	597015.6
SU3-11-030	20050712	4	8	Plutonium-238	55	14.71	14.71		U	1464193	597015.6
SU3-11-030	20050712	4	8	Radium-226	2.9	1.86	0.86			1464193	597015.6
SU3-11-030	20050712	4	8	Thorium-230	2.8*	8.19	8.19		U	1464193	597015.6
SU3-11-030	20050712	4	8	Thorium-232	2.1	0.59	0.22			1464193	597015.6
SU3-11-030	20050712	8	12	Actinium-227	4.6	0.24	0.24		U	1464193	597015.6
SU3-11-030	20050712	8	12	Americium-241	63	0.08	0.08		U	1464193	597015.6
SU3-11-030	20050712	8	12	Cesium-137	3.8	0.05	0.05		U	1464193	597015.6
SU3-11-030	20050712	8	12	Cobalt-60	0.7	0.05	0.05		U	1464193	597015.6
SU3-11-030	20050712	8	12	Lead-210	7.4	1.06	0.64			1464193	597015.6
SU3-11-030	20050712	8	12	Plutonium-238	55	11.28	11.28		U	1464193	597015.6
SU3-11-030	20050712	8	12	Radium-226	2.9	1.23	0.77			1464193	597015.6
SU3-11-030	20050712	8	12	Thorium-230	2.8*	7.27	7.27		U	1464193	597015.6
SU3-11-030	20050712	8	12	Thorium-232	2.1	0.34	0.17			1464193	597015.6
SU3-11-030	20050712	12	16	Actinium-227	4.6	0.22	0.22		U	1464193	597015.6
SU3-11-030	20050712	12	16	Americium-241	63	0.06	0.06		U	1464193	597015.6
SU3-11-030	20050712	12	16	Cesium-137	3.8	0.05	0.05		U	1464193	597015.6
SU3-11-030	20050712	12	16	Cobalt-60	0.7	0.04	0.04		U	1464193	597015.6
SU3-11-030	20050712	12	16	Lead-210	7.4	0.54	0.54		U	1464193	597015.6
SU3-11-030	20050712	12	16	Plutonium-238	55	10.35	10.35		U	1464193	597015.6
SU3-11-030	20050712	12	16	Radium-226	2.9	1.32	0.63			1464193	597015.6
SU3-11-030	20050712	12	16	Thorium-230	2.8*	6.4	6.4		U	1464193	597015.6
SU3-11-030	20050712	12	16	Thorium-232	2.1	0.36	0.13			1464193	597015.6
SU3-11-030	20050712	16	20	Actinium-227	4.6	0.27	0.27		U	1464193	597015.6
SU3-11-030	20050712	16	20	Americium-241	63	0.06	0.06		U	1464193	597015.6
SU3-11-030	20050712	16	20	Cesium-137	3.8	0.04	0.04		U	1464193	597015.6
SU3-11-030	20050712	16	20	Cobalt-60	0.7	0.06	0.06		U	1464193	597015.6
SU3-11-030	20050712	16	20	Lead-210	7.4	0.55	0.55		U	1464193	597015.6
SU3-11-030	20050712	16	20	Plutonium-238	55	10.46	10.46		U	1464193	597015.6
SU3-11-030	20050712	16	20	Radium-226	2.9	0.94	0.45			1464193	597015.6
SU3-11-030	20050712	16	20	Thorium-230	2.8*	5.74	5.74		U	1464193	597015.6
SU3-11-030	20050712	16	20	Thorium-232	2.1	0.4	0.14			1464193	597015.6
SU3-11-030	20050712	20	24	Actinium-227	4.6	0.18	0.18		U	1464193	597015.6
SU3-11-030	20050712	20	24	Americium-241	63	0.04	0.04		U	1464193	597015.6
SU3-11-030	20050712	20	24	Cesium-137	3.8	0.02	0.02		U	1464193	597015.6
SU3-11-030	20050712	20	24	Cobalt-60	0.7	0.04	0.04		U	1464193	597015.6
SU3-11-030	20050712	20	24	Lead-210	7.4	0.6	0.43			1464193	597015.6
SU3-11-030	20050712	20	24	Plutonium-238	55	10.13	10.13		U	1464193	597015.6
SU3-11-030	20050712	20	24	Radium-226	2.9	1.04	0.48			1464193	597015.6
SU3-11-030	20050712	20	24	Thorium-230	2.8*	4.69	4.69		U	1464193	597015.6
SU3-11-030	20050712	20	24	Thorium-232	2.1	0.36	0.11			1464193	597015.6
SU3-11-030	20050712	24	28	Actinium-227	4.6	0.18	0.18		U	1464193	597015.6
SU3-11-030	20050712	24	28	Americium-241	63	0.05	0.05		U	1464193	597015.6
SU3-11-030	20050712	24	28	Cesium-137	3.8	0.02	0.02		U	1464193	597015.6
SU3-11-030	20050712	24	28	Cobalt-60	0.7	0.06	0.06		U	1464193	597015.6
SU3-11-030	20050712	24	28	Lead-210	7.4	0.61	0.43			1464193	597015.6
SU3-11-030	20050712	24	28	Plutonium-238	55	10.04	10.04		U	1464193	597015.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-030	20050712	24	28	Radium-226	2.9	1.47	0.49			1464193	597015.6
SU3-11-030	20050712	24	28	Thorium-230	2.8*	4.79	4.79		U	1464193	597015.6
SU3-11-030	20050712	24	28	Thorium-232	2.1	0.37	0.1			1464193	597015.6
SU3-11-030D	20050712	0	4	Actinium-227	4.6	0.23	0.23		U	1464193	597015.6
SU3-11-030D	20050712	0	4	Americium-241	63	0.06	0.06		U	1464193	597015.6
SU3-11-030D	20050712	0	4	Cesium-137	3.8	0.04	0.04		U	1464193	597015.6
SU3-11-030D	20050712	0	4	Cobalt-60	0.7	0.06	0.06		U	1464193	597015.6
SU3-11-030D	20050712	0	4	Lead-210	7.4	0.81	0.69			1464193	597015.6
SU3-11-030D	20050712	0	4	Plutonium-238	55	14.6	14.6		U	1464193	597015.6
SU3-11-030D	20050712	0	4	Radium-226	2.9	1.59	0.85			1464193	597015.6
SU3-11-030D	20050712	0	4	Thorium-230	2.8*	6.69	6.69		U	1464193	597015.6
SU3-11-030D	20050712	0	4	Thorium-232	2.1	0.43	0.27			1464193	597015.6
SU3-11-031	20050727	0	8	Actinium-227	4.6	0.23	0.23		U	1464208	597015.6
SU3-11-031	20050727	0	8	Americium-241	63	0.06	0.06		U	1464208	597015.6
SU3-11-031	20050727	0	8	Cesium-137	3.8	0.04	0.04		U	1464208	597015.6
SU3-11-031	20050727	0	8	Cobalt-60	0.7	0.08	0.08		U	1464208	597015.6
SU3-11-031	20050727	0	8	Lead-210	7.4	0.74	0.59			1464208	597015.6
SU3-11-031	20050727	0	8	Plutonium-238	55	12.53	12.53		U	1464208	597015.6
SU3-11-031	20050727	0	8	Radium-226	2.9	1.95	0.7			1464208	597015.6
SU3-11-031	20050727	0	8	Thorium-230	2.8*	5.9	5.9		U	1464208	597015.6
SU3-11-031	20050727	0	8	Thorium-232	2.1	0.52	0.23			1464208	597015.6
SU3-11-031	20050727	8	12	Actinium-227	4.6	0.24	0.24		U	1464208	597015.6
SU3-11-031	20050727	8	12	Americium-241	63	0.05	0.05		U	1464208	597015.6
SU3-11-031	20050727	8	12	Cesium-137	3.8	0.04	0.04		U	1464208	597015.6
SU3-11-031	20050727	8	12	Cobalt-60	0.7	0.05	0.05		U	1464208	597015.6
SU3-11-031	20050727	8	12	Lead-210	7.4	0.57	0.57		U	1464208	597015.6
SU3-11-031	20050727	8	12	Plutonium-238	55	12.45	12.45		U	1464208	597015.6
SU3-11-031	20050727	8	12	Radium-226	2.9	1.28	0.66			1464208	597015.6
SU3-11-031	20050727	8	12	Thorium-230	2.8*	5.2	5.2		U	1464208	597015.6
SU3-11-031	20050727	8	12	Thorium-232	2.1	0.67	0.11			1464208	597015.6
SU3-11-032	20050727	0	4	Actinium-227	4.6	0.22	0.22		U	1464223	597015.6
SU3-11-032	20050727	0	4	Americium-241	63	0.05	0.05		U	1464223	597015.6
SU3-11-032	20050727	0	4	Cesium-137	3.8	0.04	0.04		U	1464223	597015.6
SU3-11-032	20050727	0	4	Cobalt-60	0.7	0.06	0.06		U	1464223	597015.6
SU3-11-032	20050727	0	4	Lead-210	7.4	0.92	0.5			1464223	597015.6
SU3-11-032	20050727	0	4	Plutonium-238	55	13.59	13.59		U	1464223	597015.6
SU3-11-032	20050727	0	4	Radium-226	2.9	0.78	0.58			1464223	597015.6
SU3-11-032	20050727	0	4	Thorium-230	2.8*	5.45	5.45		U	1464223	597015.6
SU3-11-032	20050727	0	4	Thorium-232	2.1	0.5	0.15			1464223	597015.6
SU3-11-032	20050727	4	8	Actinium-227	4.6	0.19	0.19		U	1464223	597015.6
SU3-11-032	20050727	4	8	Americium-241	63	0.05	0.05		U	1464223	597015.6
SU3-11-032	20050727	4	8	Cesium-137	3.8	0.04	0.04		U	1464223	597015.6
SU3-11-032	20050727	4	8	Cobalt-60	0.7	0.06	0.06		U	1464223	597015.6
SU3-11-032	20050727	4	8	Lead-210	7.4	0.55	0.55		U	1464223	597015.6
SU3-11-032	20050727	4	8	Plutonium-238	55	12.24	12.24		U	1464223	597015.6
SU3-11-032	20050727	4	8	Radium-226	2.9	1.78	0.64			1464223	597015.6
SU3-11-032	20050727	4	8	Thorium-230	2.8*	5.93	5.93		U	1464223	597015.6
SU3-11-032	20050727	4	8	Thorium-232	2.1	0.51	0.12			1464223	597015.6
SU3-11-032	20050727	8	12	Actinium-227	4.6	0.26	0.26		U	1464223	597015.6
SU3-11-032	20050727	8	12	Americium-241	63	0.08	0.08		U	1464223	597015.6
SU3-11-032	20050727	8	12	Cesium-137	3.8	0.05	0.05		U	1464223	597015.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-032	20050727	8	12	Cobalt-60	0.7	0.09	0.09		U	1464223	597015.6
SU3-11-032	20050727	8	12	Lead-210	7.4	0.88	0.68			1464223	597015.6
SU3-11-032	20050727	8	12	Plutonium-238	55	13.6	13.6		U	1464223	597015.6
SU3-11-032	20050727	8	12	Radium-226	2.9	1.73	0.8			1464223	597015.6
SU3-11-032	20050727	8	12	Thorium-230	2.8*	7.26	7.26		U	1464223	597015.6
SU3-11-032	20050727	8	12	Thorium-232	2.1	0.25	0.25		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Actinium-227	4.6	0.21	0.21		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Americium-241	63	0.07	0.07		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Cesium-137	3.8	0.05	0.05		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Cobalt-60	0.7	0.08	0.08		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Lead-210	7.4	0.6	0.6		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Plutonium-238	55	11.26	11.26		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Radium-226	2.9	1.02	0.67			1464223	597015.6
SU3-11-032D	20050727	4	8	Thorium-230	2.8*	5.95	5.95		U	1464223	597015.6
SU3-11-032D	20050727	4	8	Thorium-232	2.1	0.3	0.19			1464223	597015.6
SU3-11-033	20050727	0	4	Actinium-227	4.6	0.34	0.34		U	1464238	597015.6
SU3-11-033	20050727	0	4	Americium-241	63	0.08	0.08		U	1464238	597015.6
SU3-11-033	20050727	0	4	Cesium-137	3.8	0.08	0.08		U	1464238	597015.6
SU3-11-033	20050727	0	4	Cobalt-60	0.7	0.09	0.09		U	1464238	597015.6
SU3-11-033	20050727	0	4	Lead-210	7.4	0.99	0.75			1464238	597015.6
SU3-11-033	20050727	0	4	Plutonium-238	55	12.94	12.94		U	1464238	597015.6
SU3-11-033	20050727	0	4	Radium-226	2.9	1.7	0.78			1464238	597015.6
SU3-11-033	20050727	0	4	Thorium-230	2.8*	7.13	7.13		U	1464238	597015.6
SU3-11-033	20050727	0	4	Thorium-232	2.1	0.41	0.19			1464238	597015.6
SU3-11-033	20050727	4	8	Actinium-227	4.6	0.24	0.24		U	1464238	597015.6
SU3-11-033	20050727	4	8	Americium-241	63	0.08	0.08		U	1464238	597015.6
SU3-11-033	20050727	4	8	Cesium-137	3.8	0.06	0.06		U	1464238	597015.6
SU3-11-033	20050727	4	8	Cobalt-60	0.7	0.09	0.09		U	1464238	597015.6
SU3-11-033	20050727	4	8	Lead-210	7.4	0.77	0.7			1464238	597015.6
SU3-11-033	20050727	4	8	Plutonium-238	55	13.38	13.38		U	1464238	597015.6
SU3-11-033	20050727	4	8	Radium-226	2.9	1.9	0.73			1464238	597015.6
SU3-11-033	20050727	4	8	Thorium-230	2.8*	7.07	7.07		U	1464238	597015.6
SU3-11-033	20050727	4	8	Thorium-232	2.1	0.33	0.23			1464238	597015.6
SU3-11-033	20050727	8	12	Actinium-227	4.6	0.23	0.23		U	1464238	597015.6
SU3-11-033	20050727	8	12	Americium-241	63	0.08	0.08		U	1464238	597015.6
SU3-11-033	20050727	8	12	Cesium-137	3.8	0.04	0.04		U	1464238	597015.6
SU3-11-033	20050727	8	12	Cobalt-60	0.7	0.05	0.04			1464238	597015.6
SU3-11-033	20050727	8	12	Lead-210	7.4	0.71	0.71		U	1464238	597015.6
SU3-11-033	20050727	8	12	Plutonium-238	55	12.9	12.9		U	1464238	597015.6
SU3-11-033	20050727	8	12	Radium-226	2.9	1.65	0.81			1464238	597015.6
SU3-11-033	20050727	8	12	Thorium-230	2.8*	7.12	7.12		U	1464238	597015.6
SU3-11-033	20050727	8	12	Thorium-232	2.1	0.37	0.21			1464238	597015.6
SU3-11-033	20050727	12	16	Actinium-227	4.6	0.25	0.25		U	1464238	597015.6
SU3-11-033	20050727	12	16	Americium-241	63	0.08	0.08		U	1464238	597015.6
SU3-11-033	20050727	12	16	Cesium-137	3.8	0.05	0.05		U	1464238	597015.6
SU3-11-033	20050727	12	16	Cobalt-60	0.7	0.06	0.06		U	1464238	597015.6
SU3-11-033	20050727	12	16	Lead-210	7.4	0.64	0.63			1464238	597015.6
SU3-11-033	20050727	12	16	Plutonium-238	55	12.7	12.7		U	1464238	597015.6
SU3-11-033	20050727	12	16	Radium-226	2.9	1.11	0.56			1464238	597015.6
SU3-11-033	20050727	12	16	Thorium-230	2.8*	6.5	6.5		U	1464238	597015.6
SU3-11-033	20050727	12	16	Thorium-232	2.1	0.55	0.15			1464238	597015.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-034	20050725	0	4	Actinium-227	4.6	0.08	0.34		U	1464253	597015.6
SU3-11-034	20050725	0	4	Americium-241	63	0.1	0.1		U	1464253	597015.6
SU3-11-034	20050725	0	4	Cesium-137	3.8	0.08	0.08		U	1464253	597015.6
SU3-11-034	20050725	0	4	Cobalt-60	0.7	0.11	0.11		U	1464253	597015.6
SU3-11-034	20050725	0	4	Lead-210	7.4	1.21	0.86			1464253	597015.6
SU3-11-034	20050725	0	4	Plutonium-238	55	17.35	17.35		U	1464253	597015.6
SU3-11-034	20050725	0	4	Radium-226	2.9	1.85	1.14			1464253	597015.6
SU3-11-034	20050725	0	4	Thorium-230	2.8*	9.51	9.51		U	1464253	597015.6
SU3-11-034	20050725	0	4	Thorium-232	2.1	0.4	0.33			1464253	597015.6
SU3-11-034	20050725	4	8	Actinium-227	4.6	0.42	0.42		U	1464253	597015.6
SU3-11-034	20050725	4	8	Americium-241	63	0.11	0.11		U	1464253	597015.6
SU3-11-034	20050725	4	8	Cesium-137	3.8	0.08	0.08		U	1464253	597015.6
SU3-11-034	20050725	4	8	Cobalt-60	0.7	0.07	0.07		U	1464253	597015.6
SU3-11-034	20050725	4	8	Lead-210	7.4	1.35	0.85			1464253	597015.6
SU3-11-034	20050725	4	8	Plutonium-238	55	15.84	15.84		U	1464253	597015.6
SU3-11-034	20050725	4	8	Radium-226	2.9	2.41	0.99			1464253	597015.6
SU3-11-034	20050725	4	8	Thorium-230	2.8*	9.4	9.4		U	1464253	597015.6
SU3-11-034	20050725	4	8	Thorium-232	2.1	0.85	0.15			1464253	597015.6
SU3-11-034	20050725	8	12	Actinium-227	4.6	0.29	0.29		U	1464253	597015.6
SU3-11-034	20050725	8	12	Americium-241	63	0.08	0.08		U	1464253	597015.6
SU3-11-034	20050725	8	12	Cesium-137	3.8	0.05	0.05		U	1464253	597015.6
SU3-11-034	20050725	8	12	Cobalt-60	0.7	0.07	0.07		U	1464253	597015.6
SU3-11-034	20050725	8	12	Lead-210	7.4	0.72	0.72		U	1464253	597015.6
SU3-11-034	20050725	8	12	Plutonium-238	55	14.14	14.14		U	1464253	597015.6
SU3-11-034	20050725	8	12	Radium-226	2.9	2.24	0.77			1464253	597015.6
SU3-11-034	20050725	8	12	Thorium-230	2.8*	7.31	7.31		U	1464253	597015.6
SU3-11-034	20050725	8	12	Thorium-232	2.1	0.45	0.17			1464253	597015.6
SU3-11-034	20050725	12	16	Actinium-227	4.6	0.27	0.27		U	1464253	597015.6
SU3-11-034	20050725	12	16	Americium-241	63	0.08	0.08		U	1464253	597015.6
SU3-11-034	20050725	12	16	Cesium-137	3.8	0.04	0.04		U	1464253	597015.6
SU3-11-034	20050725	12	16	Cobalt-60	0.7	0.07	0.07		U	1464253	597015.6
SU3-11-034	20050725	12	16	Lead-210	7.4	0.81	0.73			1464253	597015.6
SU3-11-034	20050725	12	16	Plutonium-238	55	13.68	13.68		U	1464253	597015.6
SU3-11-034	20050725	12	16	Radium-226	2.9	1.74	0.81			1464253	597015.6
SU3-11-034	20050725	12	16	Thorium-230	2.8*	7.67	7.67		U	1464253	597015.6
SU3-11-034	20050725	12	16	Thorium-232	2.1	0.53	0.18			1464253	597015.6
SU3-11-034	20050725	16	20	Actinium-227	4.6	0.21	0.21		U	1464253	597015.6
SU3-11-034	20050725	16	20	Americium-241	63	0.06	0.06		U	1464253	597015.6
SU3-11-034	20050725	16	20	Cesium-137	3.8	0.03	0.03		U	1464253	597015.6
SU3-11-034	20050725	16	20	Cobalt-60	0.7	0.06	0.06		U	1464253	597015.6
SU3-11-034	20050725	16	20	Lead-210	7.4	1.18	0.54			1464253	597015.6
SU3-11-034	20050725	16	20	Plutonium-238	55	14.47	14.47		U	1464253	597015.6
SU3-11-034	20050725	16	20	Radium-226	2.9	1.79	0.68			1464253	597015.6
SU3-11-034	20050725	16	20	Thorium-230	2.8*	6.04	6.04		U	1464253	597015.6
SU3-11-034	20050725	16	20	Thorium-232	2.1	0.49	0.16			1464253	597015.6
SU3-11-034D	20050725	8	12	Actinium-227	4.6	0.3	0.3		U	1464253	597015.6
SU3-11-034D	20050725	8	12	Americium-241	63	0.08	0.08		U	1464253	597015.6
SU3-11-034D	20050725	8	12	Cesium-137	3.8	0.06	0.06		U	1464253	597015.6
SU3-11-034D	20050725	8	12	Cobalt-60	0.7	0.1	0.1		U	1464253	597015.6
SU3-11-034D	20050725	8	12	Lead-210	7.4	1.15	0.66			1464253	597015.6
SU3-11-034D	20050725	8	12	Plutonium-238	55	14.06	14.06		U	1464253	597015.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-034D	20050725	8	12	Radium-226	2.9	2.13	0.73			1464253	597015.6
SU3-11-034D	20050725	8	12	Thorium-230	2.8*	7.49	7.49		U	1464253	597015.6
SU3-11-034D	20050725	8	12	Thorium-232	2.1	0.25	0.24			1464253	597015.6
SU3-11-035	20050725	0	4	Actinium-227	4.6	0.24	0.24		U	1464268	597015.6
SU3-11-035	20050725	0	4	Americium-241	63	0.07	0.07		U	1464268	597015.6
SU3-11-035	20050725	0	4	Cesium-137	3.8	0.04	0.04		U	1464268	597015.6
SU3-11-035	20050725	0	4	Cobalt-60	0.7	0.07	0.07		U	1464268	597015.6
SU3-11-035	20050725	0	4	Lead-210	7.4	0.76	0.61			1464268	597015.6
SU3-11-035	20050725	0	4	Plutonium-238	55	14.73	14.73		U	1464268	597015.6
SU3-11-035	20050725	0	4	Radium-226	2.9	1.7	0.75			1464268	597015.6
SU3-11-035	20050725	0	4	Thorium-230	2.8*	6.45	6.45		U	1464268	597015.6
SU3-11-035	20050725	0	4	Thorium-232	2.1	0.68	0.22			1464268	597015.6
SU3-11-035	20050725	4	8	Actinium-227	4.6	0.3	0.3		U	1464268	597015.6
SU3-11-035	20050725	4	8	Americium-241	63	0.08	0.08		U	1464268	597015.6
SU3-11-035	20050725	4	8	Cesium-137	3.8	0.11	0.07			1464268	597015.6
SU3-11-035	20050725	4	8	Cobalt-60	0.7	0.09	0.09		U	1464268	597015.6
SU3-11-035	20050725	4	8	Lead-210	7.4	0.92	0.77			1464268	597015.6
SU3-11-035	20050725	4	8	Plutonium-238	55	17.6	17.6		U	1464268	597015.6
SU3-11-035	20050725	4	8	Radium-226	2.9	1.37	0.9			1464268	597015.6
SU3-11-035	20050725	4	8	Thorium-230	2.8*	7.86	7.86		U	1464268	597015.6
SU3-11-035	20050725	4	8	Thorium-232	2.1	0.89	0.25			1464268	597015.6
SU3-11-035	20050727	8	12	Actinium-227	4.6	0.23	0.23		U	1464268	597015.6
SU3-11-035	20050727	8	12	Americium-241	63	0.07	0.07		U	1464268	597015.6
SU3-11-035	20050727	8	12	Cesium-137	3.8	0.04	0.04		U	1464268	597015.6
SU3-11-035	20050727	8	12	Cobalt-60	0.7	0.05	0.05		U	1464268	597015.6
SU3-11-035	20050727	8	12	Lead-210	7.4	0.79	0.54			1464268	597015.6
SU3-11-035	20050727	8	12	Plutonium-238	55	11.12	11.12		U	1464268	597015.6
SU3-11-035	20050727	8	12	Radium-226	2.9	1.43	0.63			1464268	597015.6
SU3-11-035	20050727	8	12	Thorium-230	2.8*	5.93	5.93		U	1464268	597015.6
SU3-11-035	20050727	8	12	Thorium-232	2.1	0.26	0.21			1464268	597015.6
SU3-11-035	20050727	12	16	Actinium-227	4.6	0.24	0.24		U	1464268	597015.6
SU3-11-035	20050727	12	16	Americium-241	63	0.08	0.08		U	1464268	597015.6
SU3-11-035	20050727	12	16	Cesium-137	3.8	0.06	0.06		U	1464268	597015.6
SU3-11-035	20050727	12	16	Cobalt-60	0.7	0.04	0.04		U	1464268	597015.6
SU3-11-035	20050727	12	16	Lead-210	7.4	0.95	0.7			1464268	597015.6
SU3-11-035	20050727	12	16	Plutonium-238	55	14.62	14.62		U	1464268	597015.6
SU3-11-035	20050727	12	16	Radium-226	2.9	2.42	0.7			1464268	597015.6
SU3-11-035	20050727	12	16	Thorium-230	2.8*	7.73	7.73		U	1464268	597015.6
SU3-11-035	20050727	12	16	Thorium-232	2.1	0.41	0.16			1464268	597015.6
SU3-11-035D	20050727	0	4	Actinium-227	4.6	0.29	0.29		U	1464268	597015.6
SU3-11-035D	20050727	0	4	Americium-241	63	0.08	0.08		U	1464268	597015.6
SU3-11-035D	20050727	0	4	Cesium-137	3.8	0.06	0.06		U	1464268	597015.6
SU3-11-035D	20050727	0	4	Cobalt-60	0.7	0.08	0.08		U	1464268	597015.6
SU3-11-035D	20050727	0	4	Lead-210	7.4	1.49	0.78			1464268	597015.6
SU3-11-035D	20050727	0	4	Plutonium-238	55	18.8	18.8		U	1464268	597015.6
SU3-11-035D	20050727	0	4	Radium-226	2.9	1.93	0.87			1464268	597015.6
SU3-11-035D	20050727	0	4	Thorium-230	2.8*	8.21	8.21		U	1464268	597015.6
SU3-11-035D	20050727	0	4	Thorium-232	2.1	0.81	0.25			1464268	597015.6
SU3-11-036	20050706	0	4	Actinium-227	4.6	0.28	0.28		U	1464298	597015.6
SU3-11-036	20050706	0	4	Americium-241	63	0.08	0.08		U	1464298	597015.6
SU3-11-036	20050706	0	4	Cesium-137	3.8	0.07	0.07		U	1464298	597015.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-036	20050706	0	4	Cobalt-60	0.7	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	0	4	Lead-210	7.4	0.75	0.75		U	1464298	597015.6
SU3-11-036	20050706	0	4	Plutonium-238	55	14.93	14.93		U	1464298	597015.6
SU3-11-036	20050706	0	4	Radium-226	2.9	1.89	0.8			1464298	597015.6
SU3-11-036	20050706	0	4	Thorium-230	2.8*	7.4	7.4		U	1464298	597015.6
SU3-11-036	20050706	0	4	Thorium-232	2.1	0.34	0.24			1464298	597015.6
SU3-11-036	20050706	4	8	Actinium-227	4.6	0.31	0.31		U	1464298	597015.6
SU3-11-036	20050706	4	8	Americium-241	63	0.09	0.09		U	1464298	597015.6
SU3-11-036	20050706	4	8	Cesium-137	3.8	0.07	0.07		U	1464298	597015.6
SU3-11-036	20050706	4	8	Cobalt-60	0.7	0.07	0.07		U	1464298	597015.6
SU3-11-036	20050706	4	8	Lead-210	7.4	0.87	0.87		U	1464298	597015.6
SU3-11-036	20050706	4	8	Plutonium-238	55	16.04	16.04		U	1464298	597015.6
SU3-11-036	20050706	4	8	Radium-226	2.9	2.06	0.84			1464298	597015.6
SU3-11-036	20050706	4	8	Thorium-230	2.8*	8.15	8.15		U	1464298	597015.6
SU3-11-036	20050706	4	8	Thorium-232	2.1	0.6	0.23			1464298	597015.6
SU3-11-036	20050706	8	12	Actinium-227	4.6	0.42	0.42		U	1464298	597015.6
SU3-11-036	20050706	8	12	Americium-241	63	0.1	0.1		U	1464298	597015.6
SU3-11-036	20050706	8	12	Cesium-137	3.8	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	8	12	Cobalt-60	0.7	0.09	0.09		U	1464298	597015.6
SU3-11-036	20050706	8	12	Lead-210	7.4	1.04	0.87			1464298	597015.6
SU3-11-036	20050706	8	12	Plutonium-238	55	16.71	16.71		U	1464298	597015.6
SU3-11-036	20050706	8	12	Radium-226	2.9	2.36	0.91			1464298	597015.6
SU3-11-036	20050706	8	12	Thorium-230	2.8*	8.47	8.47		U	1464298	597015.6
SU3-11-036	20050706	8	12	Thorium-232	2.1	0.49	0.22			1464298	597015.6
SU3-11-036	20050706	12	16	Actinium-227	4.6	0.29	0.29		U	1464298	597015.6
SU3-11-036	20050706	12	16	Americium-241	63	0.08	0.08		U	1464298	597015.6
SU3-11-036	20050706	12	16	Cesium-137	3.8	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	12	16	Cobalt-60	0.7	0.08	0.08		U	1464298	597015.6
SU3-11-036	20050706	12	16	Lead-210	7.4	0.99	0.73			1464298	597015.6
SU3-11-036	20050706	12	16	Plutonium-238	55	14.48	14.48		U	1464298	597015.6
SU3-11-036	20050706	12	16	Radium-226	2.9	1.94	0.81			1464298	597015.6
SU3-11-036	20050706	12	16	Thorium-230	2.8*	7.68	7.68		U	1464298	597015.6
SU3-11-036	20050706	12	16	Thorium-232	2.1	0.43	0.23			1464298	597015.6
SU3-11-036	20050706	16	20	Actinium-227	4.6	0.34	0.34		U	1464298	597015.6
SU3-11-036	20050706	16	20	Americium-241	63	0.08	0.08		U	1464298	597015.6
SU3-11-036	20050706	16	20	Cesium-137	3.8	0.07	0.07		U	1464298	597015.6
SU3-11-036	20050706	16	20	Cobalt-60	0.7	0.08	0.08		U	1464298	597015.6
SU3-11-036	20050706	16	20	Lead-210	7.4	0.96	0.75			1464298	597015.6
SU3-11-036	20050706	16	20	Plutonium-238	55	12.86	12.86		U	1464298	597015.6
SU3-11-036	20050706	16	20	Radium-226	2.9	1.64	0.87			1464298	597015.6
SU3-11-036	20050706	16	20	Thorium-230	2.8*	7.65	7.65		U	1464298	597015.6
SU3-11-036	20050706	16	20	Thorium-232	2.1	0.55	0.19			1464298	597015.6
SU3-11-036	20050706	20	24	Actinium-227	4.6	0.24	0.24		U	1464298	597015.6
SU3-11-036	20050706	20	24	Americium-241	63	0.08	0.08		U	1464298	597015.6
SU3-11-036	20050706	20	24	Cesium-137	3.8	0.05	0.05		U	1464298	597015.6
SU3-11-036	20050706	20	24	Cobalt-60	0.7	0.07	0.07		U	1464298	597015.6
SU3-11-036	20050706	20	24	Lead-210	7.4	1.08	0.7			1464298	597015.6
SU3-11-036	20050706	20	24	Plutonium-238	55	14.92	14.92		U	1464298	597015.6
SU3-11-036	20050706	20	24	Radium-226	2.9	2.09	0.82			1464298	597015.6
SU3-11-036	20050706	20	24	Thorium-230	2.8*	7.61	7.61		U	1464298	597015.6
SU3-11-036	20050706	20	24	Thorium-232	2.1	0.55	0.14			1464298	597015.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-036	20050706	24	28	Actinium-227	4.6	0.18	0.18		U	1464298	597015.6
SU3-11-036	20050706	24	28	Americium-241	63	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	24	28	Cesium-137	3.8	0.03	0.03		U	1464298	597015.6
SU3-11-036	20050706	24	28	Cobalt-60	0.7	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	24	28	Lead-210	7.4	0.78	0.47			1464298	597015.6
SU3-11-036	20050706	24	28	Plutonium-238	55	11.43	11.43		U	1464298	597015.6
SU3-11-036	20050706	24	28	Radium-226	2.9	1.24	0.54			1464298	597015.6
SU3-11-036	20050706	24	28	Thorium-230	2.8*	5.57	5.57		U	1464298	597015.6
SU3-11-036	20050706	24	28	Thorium-232	2.1	0.27	0.16			1464298	597015.6
SU3-11-036	20050706	28	32	Actinium-227	4.6	0.23	0.23		U	1464298	597015.6
SU3-11-036	20050706	28	32	Americium-241	63	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	28	32	Cesium-137	3.8	0.04	0.04		U	1464298	597015.6
SU3-11-036	20050706	28	32	Cobalt-60	0.7	0.06	0.06		U	1464298	597015.6
SU3-11-036	20050706	28	32	Lead-210	7.4	0.58	0.58		U	1464298	597015.6
SU3-11-036	20050706	28	32	Plutonium-238	55	12.18	12.18		U	1464298	597015.6
SU3-11-036	20050706	28	32	Radium-226	2.9	1.76	0.66			1464298	597015.6
SU3-11-036	20050706	28	32	Thorium-230	2.8*	5.51	5.51		U	1464298	597015.6
SU3-11-036	20050706	28	32	Thorium-232	2.1	0.38	0.2			1464298	597015.6
SU3-11-037	20050706	0	4	Actinium-227	4.6	0.28	0.28		U	1464313	597015.6
SU3-11-037	20050706	0	4	Americium-241	63	0.07	0.07		U	1464313	597015.6
SU3-11-037	20050706	0	4	Cesium-137	3.8	0.06	0.06		U	1464313	597015.6
SU3-11-037	20050706	0	4	Cobalt-60	0.7	0.09	0.09		U	1464313	597015.6
SU3-11-037	20050706	0	4	Lead-210	7.4	1.21	0.79			1464313	597015.6
SU3-11-037	20050706	0	4	Plutonium-238	55	20.36	20.36		U	1464313	597015.6
SU3-11-037	20050706	0	4	Radium-226	2.9	1.88	0.81			1464313	597015.6
SU3-11-037	20050706	0	4	Thorium-230	2.8*	7.34	7.34		U	1464313	597015.6
SU3-11-037	20050706	0	4	Thorium-232	2.1	0.55	0.25			1464313	597015.6
SU3-11-037	20050706	4	8	Actinium-227	4.6	0.28	0.28		U	1464313	597015.6
SU3-11-037	20050706	4	8	Americium-241	63	0.07	0.07		U	1464313	597015.6
SU3-11-037	20050706	4	8	Cesium-137	3.8	0.08	0.05			1464313	597015.6
SU3-11-037	20050706	4	8	Cobalt-60	0.7	0.06	0.06		U	1464313	597015.6
SU3-11-037	20050706	4	8	Lead-210	7.4	1.16	0.7			1464313	597015.6
SU3-11-037	20050706	4	8	Plutonium-238	55	15.04	15.04		U	1464313	597015.6
SU3-11-037	20050706	4	8	Radium-226	2.9	1.96	0.78			1464313	597015.6
SU3-11-037	20050706	4	8	Thorium-230	2.8*	7.11	7.11		U	1464313	597015.6
SU3-11-037	20050706	4	8	Thorium-232	2.1	0.78	0.25			1464313	597015.6
SU3-11-037	20050706	8	12	Actinium-227	4.6	0.3	0.3		U	1464313	597015.6
SU3-11-037	20050706	8	12	Americium-241	63	0.07	0.07		U	1464313	597015.6
SU3-11-037	20050706	8	12	Cesium-137	3.8	0.04	0.04		U	1464313	597015.6
SU3-11-037	20050706	8	12	Cobalt-60	0.7	0.07	0.07		U	1464313	597015.6
SU3-11-037	20050706	8	12	Lead-210	7.4	1.22	0.69			1464313	597015.6
SU3-11-037	20050706	8	12	Plutonium-238	55	15.36	15.36		U	1464313	597015.6
SU3-11-037	20050706	8	12	Radium-226	2.9	2.01	0.79			1464313	597015.6
SU3-11-037	20050706	8	12	Thorium-230	2.8*	7.77	7.77		U	1464313	597015.6
SU3-11-037	20050706	8	12	Thorium-232	2.1	0.71	0.18			1464313	597015.6
SU3-11-037	20050706	12	16	Actinium-227	4.6	0.27	0.27		U	1464313	597015.6
SU3-11-037	20050706	12	16	Americium-241	63	0.08	0.08		U	1464313	597015.6
SU3-11-037	20050706	12	16	Cesium-137	3.8	0.05	0.05		U	1464313	597015.6
SU3-11-037	20050706	12	16	Cobalt-60	0.7	0.08	0.08		U	1464313	597015.6
SU3-11-037	20050706	12	16	Lead-210	7.4	1.32	0.71			1464313	597015.6
SU3-11-037	20050706	12	16	Plutonium-238	55	18.37	18.37		U	1464313	597015.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-037	20050706	12	16	Radium-226	2.9	1.48	0.85			1464313	597015.6
SU3-11-037	20050706	12	16	Thorium-230	2.8*	7.19	7.19		U	1464313	597015.6
SU3-11-037	20050706	12	16	Thorium-232	2.1	0.51	0.26			1464313	597015.6
SU3-11-037	20050706	16	20	Actinium-227	4.6	0.31	0.31		U	1464313	597015.6
SU3-11-037	20050706	16	20	Americium-241	63	0.08	0.08		U	1464313	597015.6
SU3-11-037	20050706	16	20	Cesium-137	3.8	0.05	0.05		U	1464313	597015.6
SU3-11-037	20050706	16	20	Cobalt-60	0.7	0.08	0.08		U	1464313	597015.6
SU3-11-037	20050706	16	20	Lead-210	7.4	1.92	0.7			1464313	597015.6
SU3-11-037	20050706	16	20	Plutonium-238	55	21.64	21.64		U	1464313	597015.6
SU3-11-037	20050706	16	20	Radium-226	2.9	1.88	0.95			1464313	597015.6
SU3-11-037	20050706	16	20	Thorium-230	2.8*	8.94	8.94		U	1464313	597015.6
SU3-11-037	20050706	16	20	Thorium-232	2.1	0.35	0.33			1464313	597015.6
SU3-11-037	20050706	20	24	Actinium-227	4.6	0.22	0.22		U	1464313	597015.6
SU3-11-037	20050706	20	24	Americium-241	63	0.06	0.06		U	1464313	597015.6
SU3-11-037	20050706	20	24	Cesium-137	3.8	0.04	0.04		U	1464313	597015.6
SU3-11-037	20050706	20	24	Cobalt-60	0.7	0.06	0.06		U	1464313	597015.6
SU3-11-037	20050706	20	24	Lead-210	7.4	1.24	0.55			1464313	597015.6
SU3-11-037	20050706	20	24	Plutonium-238	55	13.69	13.69		U	1464313	597015.6
SU3-11-037	20050706	20	24	Radium-226	2.9	1.46	0.68			1464313	597015.6
SU3-11-037	20050706	20	24	Thorium-230	2.8*	6.06	6.06		U	1464313	597015.6
SU3-11-037	20050706	20	24	Thorium-232	2.1	0.29	0.21			1464313	597015.6
SU3-11-037D	20050706	12	16	Actinium-227	4.6	0.32	0.32		U	1464313	597015.6
SU3-11-037D	20050706	12	16	Americium-241	63	0.09	0.09		U	1464313	597015.6
SU3-11-037D	20050706	12	16	Cesium-137	3.8	0.05	0.05		U	1464313	597015.6
SU3-11-037D	20050706	12	16	Cobalt-60	0.7	0.08	0.08		U	1464313	597015.6
SU3-11-037D	20050706	12	16	Lead-210	7.4	1.26	0.8			1464313	597015.6
SU3-11-037D	20050706	12	16	Plutonium-238	55	17.23	17.23		U	1464313	597015.6
SU3-11-037D	20050706	12	16	Radium-226	2.9	2.21	1			1464313	597015.6
SU3-11-037D	20050706	12	16	Thorium-230	2.8*	8	8		U	1464313	597015.6
SU3-11-037D	20050706	12	16	Thorium-232	2.1	0.53	0.23			1464313	597015.6
SU3-11-039	20050728	0	4	Actinium-227	4.6	0.32	0.32		U	1464126	597028.6
SU3-11-039	20050728	0	4	Americium-241	63	0.09	0.09		U	1464126	597028.6
SU3-11-039	20050728	0	4	Cesium-137	3.8	0.08	0.06			1464126	597028.6
SU3-11-039	20050728	0	4	Cobalt-60	0.7	0.04	0.04			1464126	597028.6
SU3-11-039	20050728	0	4	Lead-210	7.4	0.87	0.87		U	1464126	597028.6
SU3-11-039	20050728	0	4	Plutonium-238	55	15.09	15.09		U	1464126	597028.6
SU3-11-039	20050728	0	4	Radium-226	2.9	2.48	0.93			1464126	597028.6
SU3-11-039	20050728	0	4	Thorium-230	2.8*	9.34	9.34		U	1464126	597028.6
SU3-11-039	20050728	0	4	Thorium-232	2.1	0.79	0.25			1464126	597028.6
SU3-11-039	20050728	4	8	Actinium-227	4.6	0.36	0.36		U	1464126	597028.6
SU3-11-039	20050728	4	8	Americium-241	63	0.09	0.09		U	1464126	597028.6
SU3-11-039	20050728	4	8	Cesium-137	3.8	0.05	0.05			1464126	597028.6
SU3-11-039	20050728	4	8	Cobalt-60	0.7	0.08	0.08		U	1464126	597028.6
SU3-11-039	20050728	4	8	Lead-210	7.4	0.77	0.75			1464126	597028.6
SU3-11-039	20050728	4	8	Plutonium-238	55	14.1	14.1		U	1464126	597028.6
SU3-11-039	20050728	4	8	Radium-226	2.9	1.44	0.71			1464126	597028.6
SU3-11-039	20050728	4	8	Thorium-230	2.8*	8.87	8.87		U	1464126	597028.6
SU3-11-039	20050728	4	8	Thorium-232	2.1	0.66	0.23			1464126	597028.6
SU3-11-039	20050728	8	12	Actinium-227	4.6	0.46	0.46		U	1464126	597028.6
SU3-11-039	20050728	8	12	Americium-241	63	0.11	0.11		U	1464126	597028.6
SU3-11-039	20050728	8	12	Cesium-137	3.8	0.08	0.08		U	1464126	597028.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-039	20050728	8	12	Cobalt-60	0.7	0.08	0.08		U	1464126	597028.6
SU3-11-039	20050728	8	12	Lead-210	7.4	1.18	1.03			1464126	597028.6
SU3-11-039	20050728	8	12	Plutonium-238	55	16.3	16.3		U	1464126	597028.6
SU3-11-039	20050728	8	12	Radium-226	2.9	2.74	1.04			1464126	597028.6
SU3-11-039	20050728	8	12	Thorium-230	2.8*	9.93	9.93		U	1464126	597028.6
SU3-11-039	20050728	8	12	Thorium-232	2.1	0.9	0.25			1464126	597028.6
SU3-11-040	20050728	0	4	Actinium-227	4.6	0.27	0.27		U	1464141	597028.6
SU3-11-040	20050728	0	4	Americium-241	63	0.08	0.08		U	1464141	597028.6
SU3-11-040	20050728	0	4	Cesium-137	3.8	0.07	0.07		U	1464141	597028.6
SU3-11-040	20050728	0	4	Cobalt-60	0.7	0.09	0.09		U	1464141	597028.6
SU3-11-040	20050728	0	4	Lead-210	7.4	0.76	0.76		U	1464141	597028.6
SU3-11-040	20050728	0	4	Plutonium-238	55	15.72	15.72		U	1464141	597028.6
SU3-11-040	20050728	0	4	Radium-226	2.9	1.44	0.9			1464141	597028.6
SU3-11-040	20050728	0	4	Thorium-230	2.8*	7.67	7.67		U	1464141	597028.6
SU3-11-040	20050728	0	4	Thorium-232	2.1	0.49	0.2			1464141	597028.6
SU3-11-040	20050728	4	8	Actinium-227	4.6	0.29	0.29		U	1464141	597028.6
SU3-11-040	20050728	4	8	Americium-241	63	0.07	0.07		U	1464141	597028.6
SU3-11-040	20050728	4	8	Cesium-137	3.8	0.06	0.05			1464141	597028.6
SU3-11-040	20050728	4	8	Cobalt-60	0.7	0.06	0.06		U	1464141	597028.6
SU3-11-040	20050728	4	8	Lead-210	7.4	1.4	0.68			1464141	597028.6
SU3-11-040	20050728	4	8	Plutonium-238	55	17.07	17.07		U	1464141	597028.6
SU3-11-040	20050728	4	8	Radium-226	2.9	1.92	0.94			1464141	597028.6
SU3-11-040	20050728	4	8	Thorium-230	2.8*	7.89	7.89		U	1464141	597028.6
SU3-11-040	20050728	4	8	Thorium-232	2.1	0.73	0.23			1464141	597028.6
SU3-11-040	20050728	8	12	Actinium-227	4.6	0.28	0.28		U	1464141	597028.6
SU3-11-040	20050728	8	12	Americium-241	63	0.07	0.07			1464141	597028.6
SU3-11-040	20050728	8	12	Cesium-137	3.8	0.06	0.04			1464141	597028.6
SU3-11-040	20050728	8	12	Cobalt-60	0.7	0.06	0.06		U	1464141	597028.6
SU3-11-040	20050728	8	12	Lead-210	7.4	0.83	0.7			1464141	597028.6
SU3-11-040	20050728	8	12	Plutonium-238	55	16	16		U	1464141	597028.6
SU3-11-040	20050728	8	12	Radium-226	2.9	1.33	0.97			1464141	597028.6
SU3-11-040	20050728	8	12	Thorium-230	2.8*	7.17	7.17		U	1464141	597028.6
SU3-11-040	20050728	8	12	Thorium-232	2.1	0.97	0.19			1464141	597028.6
SU3-11-040D	20050728	0	4	Actinium-227	4.6	0.27	0.27		U	1464141	597028.6
SU3-11-040D	20050728	0	4	Americium-241	63	0.07	0.07		U	1464141	597028.6
SU3-11-040D	20050728	0	4	Cesium-137	3.8	0.05	0.05		U	1464141	597028.6
SU3-11-040D	20050728	0	4	Cobalt-60	0.7	0.1	0.1		U	1464141	597028.6
SU3-11-040D	20050728	0	4	Lead-210	7.4	1.27	0.64			1464141	597028.6
SU3-11-040D	20050728	0	4	Plutonium-238	55	15.72	15.72		U	1464141	597028.6
SU3-11-040D	20050728	0	4	Radium-226	2.9	1.72	0.95			1464141	597028.6
SU3-11-040D	20050728	0	4	Thorium-230	2.8*	7.13	7.13		U	1464141	597028.6
SU3-11-040D	20050728	0	4	Thorium-232	2.1	0.49	0.23			1464141	597028.6
SU3-11-041	20050720	0	4	Actinium-227	4.6	0.28	0.28		U	1464156	597028.6
SU3-11-041	20050720	0	4	Americium-241	63	0.08	0.08		U	1464156	597028.6
SU3-11-041	20050720	0	4	Cesium-137	3.8	0.06	0.06		U	1464156	597028.6
SU3-11-041	20050720	0	4	Cobalt-60	0.7	0.09	0.09		U	1464156	597028.6
SU3-11-041	20050720	0	4	Lead-210	7.4	0.68	0.68			1464156	597028.6
SU3-11-041	20050720	0	4	Plutonium-238	55	12.53	12.53		U	1464156	597028.6
SU3-11-041	20050720	0	4	Radium-226	2.9	1.41	0.68			1464156	597028.6
SU3-11-041	20050720	0	4	Thorium-230	2.8*	6.86	6.86		U	1464156	597028.6
SU3-11-041	20050720	0	4	Thorium-232	2.1	0.53	0.16			1464156	597028.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-041	20050720	4	8	Actinium-227	4.6	0.25	0.25		U	1464156	597028.6
SU3-11-041	20050720	4	8	Americium-241	63	0.08	0.08		U	1464156	597028.6
SU3-11-041	20050720	4	8	Cesium-137	3.8	0.06	0.06		U	1464156	597028.6
SU3-11-041	20050720	4	8	Cobalt-60	0.7	0.08	0.08		U	1464156	597028.6
SU3-11-041	20050720	4	8	Lead-210	7.4	0.76	0.76		U	1464156	597028.6
SU3-11-041	20050720	4	8	Plutonium-238	55	13.28	13.28		U	1464156	597028.6
SU3-11-041	20050720	4	8	Radium-226	2.9	1.63	0.79			1464156	597028.6
SU3-11-041	20050720	4	8	Thorium-230	2.8*	7.36	7.36		U	1464156	597028.6
SU3-11-041	20050720	4	8	Thorium-232	2.1	0.35	0.22			1464156	597028.6
SU3-11-041	20050720	8	12	Actinium-227	4.6	0.25	0.25		U	1464156	597028.6
SU3-11-041	20050720	8	12	Americium-241	63	0.09	0.09		U	1464156	597028.6
SU3-11-041	20050720	8	12	Cesium-137	3.8	0.06	0.06		U	1464156	597028.6
SU3-11-041	20050720	8	12	Cobalt-60	0.7	0.07	0.07		U	1464156	597028.6
SU3-11-041	20050720	8	12	Lead-210	7.4	0.76	0.76		U	1464156	597028.6
SU3-11-041	20050720	8	12	Plutonium-238	55	15.09	15.09		U	1464156	597028.6
SU3-11-041	20050720	8	12	Radium-226	2.9	1.86	0.82			1464156	597028.6
SU3-11-041	20050720	8	12	Thorium-230	2.8*	8.67	8.67		U	1464156	597028.6
SU3-11-041	20050720	8	12	Thorium-232	2.1	0.61	0.15			1464156	597028.6
SU3-11-041	20050720	12	16	Actinium-227	4.6	0.31	0.31		U	1464156	597028.6
SU3-11-041	20050720	12	16	Americium-241	63	0.09	0.09		U	1464156	597028.6
SU3-11-041	20050720	12	16	Cesium-137	3.8	0.07	0.07		U	1464156	597028.6
SU3-11-041	20050720	12	16	Cobalt-60	0.7	0.08	0.08		U	1464156	597028.6
SU3-11-041	20050720	12	16	Lead-210	7.4	1.02	0.77			1464156	597028.6
SU3-11-041	20050720	12	16	Plutonium-238	55	17.14	17.14		U	1464156	597028.6
SU3-11-041	20050720	12	16	Radium-226	2.9	2.57	0.85			1464156	597028.6
SU3-11-041	20050720	12	16	Thorium-230	2.8*	9.04	9.04		U	1464156	597028.6
SU3-11-041	20050720	12	16	Thorium-232	2.1	0.69	0.21			1464156	597028.6
SU3-11-041	20050720	16	20	Actinium-227	4.6	0.29	0.29		U	1464156	597028.6
SU3-11-041	20050720	16	20	Americium-241	63	0.1	0.1		U	1464156	597028.6
SU3-11-041	20050720	16	20	Cesium-137	3.8	0.06	0.06		U	1464156	597028.6
SU3-11-041	20050720	16	20	Cobalt-60	0.7	0.09	0.09		U	1464156	597028.6
SU3-11-041	20050720	16	20	Lead-210	7.4	0.87	0.87		U	1464156	597028.6
SU3-11-041	20050720	16	20	Plutonium-238	55	15.25	15.25		U	1464156	597028.6
SU3-11-041	20050720	16	20	Radium-226	2.9	1.2	0.92			1464156	597028.6
SU3-11-041	20050720	16	20	Thorium-230	2.8*	9.05	9.05		U	1464156	597028.6
SU3-11-041	20050720	16	20	Thorium-232	2.1	0.72	0.25			1464156	597028.6
SU3-11-041	20050720	20	24	Actinium-227	4.6	0.29	0.29		U	1464156	597028.6
SU3-11-041	20050720	20	24	Americium-241	63	0.06	0.06		U	1464156	597028.6
SU3-11-041	20050720	20	24	Cesium-137	3.8	0.05	0.05		U	1464156	597028.6
SU3-11-041	20050720	20	24	Cobalt-60	0.7	0.04	0.04		U	1464156	597028.6
SU3-11-041	20050720	20	24	Lead-210	7.4	0.6	0.6		U	1464156	597028.6
SU3-11-041	20050720	20	24	Plutonium-238	55	11.43	11.43		U	1464156	597028.6
SU3-11-041	20050720	20	24	Radium-226	2.9	1.28	0.61			1464156	597028.6
SU3-11-041	20050720	20	24	Thorium-230	2.8*	5.89	5.89		U	1464156	597028.6
SU3-11-041	20050720	20	24	Thorium-232	2.1	0.29	0.15			1464156	597028.6
SU3-11-041	20050721	24	28	Actinium-227	4.6	0.23	0.23		U	1464156	597028.6
SU3-11-041	20050721	24	28	Americium-241	63	0.07	0.07		U	1464156	597028.6
SU3-11-041	20050721	24	28	Cesium-137	3.8	0.03	0.03		U	1464156	597028.6
SU3-11-041	20050721	24	28	Cobalt-60	0.7	0.04	0.04		U	1464156	597028.6
SU3-11-041	20050721	24	28	Lead-210	7.4	0.67	0.67		U	1464156	597028.6
SU3-11-041	20050721	24	28	Plutonium-238	55	12.54	12.54		U	1464156	597028.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-041	20050721	24	28	Radium-226	2.9	0.81	0.7			1464156	597028.6
SU3-11-041	20050721	24	28	Thorium-230	2.8*	6.2	6.2		U	1464156	597028.6
SU3-11-041	20050721	24	28	Thorium-232	2.1	0.38	0.12			1464156	597028.6
SU3-11-041	20050721	28	32	Actinium-227	4.6	0.21	0.21		U	1464156	597028.6
SU3-11-041	20050721	28	32	Americium-241	63	0.05	0.05		U	1464156	597028.6
SU3-11-041	20050721	28	32	Cesium-137	3.8	0.04	0.04		U	1464156	597028.6
SU3-11-041	20050721	28	32	Cobalt-60	0.7	0.07	0.07		U	1464156	597028.6
SU3-11-041	20050721	28	32	Lead-210	7.4	0.7	0.53			1464156	597028.6
SU3-11-041	20050721	28	32	Plutonium-238	55	12.36	12.36		U	1464156	597028.6
SU3-11-041	20050721	28	32	Radium-226	2.9	1.14	0.62			1464156	597028.6
SU3-11-041	20050721	28	32	Thorium-230	2.8*	5.13	5.13		U	1464156	597028.6
SU3-11-041	20050721	28	32	Thorium-232	2.1	0.24	0.24		U	1464156	597028.6
SU3-11-041	20050721	32	36	Actinium-227	4.6	0.24	0.24		U	1464156	597028.6
SU3-11-041	20050721	32	36	Americium-241	63	0.07	0.07		U	1464156	597028.6
SU3-11-041	20050721	32	36	Cesium-137	3.8	0.04	0.04		U	1464156	597028.6
SU3-11-041	20050721	32	36	Cobalt-60	0.7	0.08	0.08		U	1464156	597028.6
SU3-11-041	20050721	32	36	Lead-210	7.4	0.69	0.69		U	1464156	597028.6
SU3-11-041	20050721	32	36	Plutonium-238	55	12.08	12.08		U	1464156	597028.6
SU3-11-041	20050721	32	36	Radium-226	2.9	0.81	0.81		U	1464156	597028.6
SU3-11-041	20050721	32	36	Thorium-230	2.8*	7.04	7.04		U	1464156	597028.6
SU3-11-041	20050721	32	36	Thorium-232	2.1	0.19	0.16			1464156	597028.6
SU3-11-041	20050721	36	40	Actinium-227	4.6	0.2	0.2		U	1464156	597028.6
SU3-11-041	20050721	36	40	Americium-241	63	0.07	0.07		U	1464156	597028.6
SU3-11-041	20050721	36	40	Cesium-137	3.8	0.04	0.04		U	1464156	597028.6
SU3-11-041	20050721	36	40	Cobalt-60	0.7	0.06	0.06		U	1464156	597028.6
SU3-11-041	20050721	36	40	Lead-210	7.4	0.91	0.54			1464156	597028.6
SU3-11-041	20050721	36	40	Plutonium-238	55	10.43	10.43		U	1464156	597028.6
SU3-11-041	20050721	36	40	Radium-226	2.9	1.01	0.69			1464156	597028.6
SU3-11-041	20050721	36	40	Thorium-230	2.8*	5.4	5.4		U	1464156	597028.6
SU3-11-041	20050721	36	40	Thorium-232	2.1	0.23	0.13			1464156	597028.6
SU3-11-041D	20050721	28	32	Actinium-227	4.6	0.2	0.2		U	1464156	597028.6
SU3-11-041D	20050721	28	32	Americium-241	63	0.07	0.07		U	1464156	597028.6
SU3-11-041D	20050721	28	32	Cesium-137	3.8	0.05	0.05		U	1464156	597028.6
SU3-11-041D	20050721	28	32	Cobalt-60	0.7	0.04	0.04		U	1464156	597028.6
SU3-11-041D	20050721	28	32	Lead-210	7.4	0.74	0.59			1464156	597028.6
SU3-11-041D	20050721	28	32	Plutonium-238	55	10.87	10.87		U	1464156	597028.6
SU3-11-041D	20050721	28	32	Radium-226	2.9	1.17	0.65			1464156	597028.6
SU3-11-041D	20050721	28	32	Thorium-230	2.8*	6.46	6.46		U	1464156	597028.6
SU3-11-041D	20050721	28	32	Thorium-232	2.1	0.22	0.17			1464156	597028.6
SU3-11-042	20050721	0	4	Actinium-227	4.6	0.33	0.33		U	1464171	597028.6
SU3-11-042	20050721	0	4	Americium-241	63	0.08	0.08		U	1464171	597028.6
SU3-11-042	20050721	0	4	Cesium-137	3.8	0.06	0.06		U	1464171	597028.6
SU3-11-042	20050721	0	4	Cobalt-60	0.7	0.11	0.11		U	1464171	597028.6
SU3-11-042	20050721	0	4	Lead-210	7.4	0.71	0.71		U	1464171	597028.6
SU3-11-042	20050721	0	4	Plutonium-238	55	13.77	13.77		U	1464171	597028.6
SU3-11-042	20050721	0	4	Radium-226	2.9	0.91	0.91		U	1464171	597028.6
SU3-11-042	20050721	0	4	Thorium-230	2.8*	7.49	7.49		U	1464171	597028.6
SU3-11-042	20050721	0	4	Thorium-232	2.1	0.46	0.19			1464171	597028.6
SU3-11-042	20050721	4	8	Actinium-227	4.6	0.31	0.31		U	1464171	597028.6
SU3-11-042	20050721	4	8	Americium-241	63	0.09	0.09		U	1464171	597028.6
SU3-11-042	20050721	4	8	Cesium-137	3.8	0.05	0.05			1464171	597028.6

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-042	20050721	4	8	Cobalt-60	0.7	0.07	0.07		U	1464171	597028.6
SU3-11-042	20050721	4	8	Lead-210	7.4	0.94	0.81			1464171	597028.6
SU3-11-042	20050721	4	8	Plutonium-238	55	16.03	16.03		U	1464171	597028.6
SU3-11-042	20050721	4	8	Radium-226	2.9	1.79	0.92			1464171	597028.6
SU3-11-042	20050721	4	8	Thorium-230	2.8*	8.4	8.4		U	1464171	597028.6
SU3-11-042	20050721	4	8	Thorium-232	2.1	0.36	0.26			1464171	597028.6
SU3-11-042	20050721	8	12	Actinium-227	4.6	0.25	0.25		U	1464171	597028.6
SU3-11-042	20050721	8	12	Americium-241	63	0.09	0.09		U	1464171	597028.6
SU3-11-042	20050721	8	12	Cesium-137	3.8	0.07	0.07		U	1464171	597028.6
SU3-11-042	20050721	8	12	Cobalt-60	0.7	0.07	0.07		U	1464171	597028.6
SU3-11-042	20050721	8	12	Lead-210	7.4	1.16	0.8			1464171	597028.6
SU3-11-042	20050721	8	12	Plutonium-238	55	14.27	14.27		U	1464171	597028.6
SU3-11-042	20050721	8	12	Radium-226	2.9	2.22	0.84			1464171	597028.6
SU3-11-042	20050721	8	12	Thorium-230	2.8*	8.52	8.52		U	1464171	597028.6
SU3-11-042	20050721	8	12	Thorium-232	2.1	0.43	0.21			1464171	597028.6
SU3-11-042	20050721	12	16	Actinium-227	4.6	0.28	0.28		U	1464171	597028.6
SU3-11-042	20050721	12	16	Americium-241	63	0.09	0.09		U	1464171	597028.6
SU3-11-042	20050721	12	16	Cesium-137	3.8	0.07	0.07		U	1464171	597028.6
SU3-11-042	20050721	12	16	Cobalt-60	0.7	0.06	0.06		U	1464171	597028.6
SU3-11-042	20050721	12	16	Lead-210	7.4	1.09	0.73			1464171	597028.6
SU3-11-042	20050721	12	16	Plutonium-238	55	14	14		U	1464171	597028.6
SU3-11-042	20050721	12	16	Radium-226	2.9	2.17	0.85			1464171	597028.6
SU3-11-042	20050721	12	16	Thorium-230	2.8*	8.23	8.23		U	1464171	597028.6
SU3-11-042	20050721	12	16	Thorium-232	2.1	0.75	0.17			1464171	597028.6
SU3-11-042	20050721	16	20	Actinium-227	4.6	0.3	0.3		U	1464171	597028.6
SU3-11-042	20050721	16	20	Americium-241	63	0.09	0.09		U	1464171	597028.6
SU3-11-042	20050721	16	20	Cesium-137	3.8	0.06	0.06		U	1464171	597028.6
SU3-11-042	20050721	16	20	Cobalt-60	0.7	0.08	0.08		U	1464171	597028.6
SU3-11-042	20050721	16	20	Lead-210	7.4	0.99	0.71			1464171	597028.6
SU3-11-042	20050721	16	20	Plutonium-238	55	14.3	14.3		U	1464171	597028.6
SU3-11-042	20050721	16	20	Radium-226	2.9	2	0.77			1464171	597028.6
SU3-11-042	20050721	16	20	Thorium-230	2.8*	7.64	7.64		U	1464171	597028.6
SU3-11-042	20050721	16	20	Thorium-232	2.1	0.76	0.19			1464171	597028.6
SU3-11-042	20050721	20	24	Actinium-227	4.6	0.21	0.21		U	1464171	597028.6
SU3-11-042	20050721	20	24	Americium-241	63	0.07	0.07		U	1464171	597028.6
SU3-11-042	20050721	20	24	Cesium-137	3.8	0.04	0.04		U	1464171	597028.6
SU3-11-042	20050721	20	24	Cobalt-60	0.7	0.05	0.05		U	1464171	597028.6
SU3-11-042	20050721	20	24	Lead-210	7.4	1.1	0.55			1464171	597028.6
SU3-11-042	20050721	20	24	Plutonium-238	55	11.44	11.44		U	1464171	597028.6
SU3-11-042	20050721	20	24	Radium-226	2.9	0.73	0.73		U	1464171	597028.6
SU3-11-042	20050721	20	24	Thorium-230	2.8*	6.81	6.81		U	1464171	597028.6
SU3-11-042	20050721	20	24	Thorium-232	2.1	0.29	0.18			1464171	597028.6
SU3-11-042	20050721	24	28	Actinium-227	4.6	0.28	0.28		U	1464171	597028.6
SU3-11-042	20050721	24	28	Americium-241	63	0.08	0.08		U	1464171	597028.6
SU3-11-042	20050721	24	28	Cesium-137	3.8	0.04	0.04		U	1464171	597028.6
SU3-11-042	20050721	24	28	Cobalt-60	0.7	0.04	0.01			1464171	597028.6
SU3-11-042	20050721	24	28	Lead-210	7.4	0.74	0.74		U	1464171	597028.6
SU3-11-042	20050721	24	28	Plutonium-238	55	15.3	15.3		U	1464171	597028.6
SU3-11-042	20050721	24	28	Radium-226	2.9	0.9	0.9		U	1464171	597028.6
SU3-11-042	20050721	24	28	Thorium-230	2.8*	7.89	7.89		U	1464171	597028.6
SU3-11-042	20050721	24	28	Thorium-232	2.1	0.23	0.23		U	1464171	597028.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-042	20050721	28	32	Actinium-227	4.6	0.31	0.31		U	1464171	597028.6
SU3-11-042	20050721	28	32	Americium-241	63	0.07	0.07		U	1464171	597028.6
SU3-11-042	20050721	28	32	Cesium-137	3.8	0.06	0.06		U	1464171	597028.6
SU3-11-042	20050721	28	32	Cobalt-60	0.7	0.09	0.09		U	1464171	597028.6
SU3-11-042	20050721	28	32	Lead-210	7.4	0.69	0.69		U	1464171	597028.6
SU3-11-042	20050721	28	32	Plutonium-238	55	15.23	15.23		U	1464171	597028.6
SU3-11-042	20050721	28	32	Radium-226	2.9	1.1	0.8			1464171	597028.6
SU3-11-042	20050721	28	32	Thorium-230	2.8*	7.18	7.18		U	1464171	597028.6
SU3-11-042	20050721	28	32	Thorium-232	2.1	0.36	0.11			1464171	597028.6
SU3-11-042D	20050721	8	12	Actinium-227	4.6	0.38	0.38		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Americium-241	63	0.1	0.1		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Cesium-137	3.8	0.06	0.06		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Cobalt-60	0.7	0.09	0.09		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Lead-210	7.4	0.89	0.89		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Plutonium-238	55	15.5	15.5		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Radium-226	2.9	1.29	0.97			1464171	597028.6
SU3-11-042D	20050721	8	12	Thorium-230	2.8*	8.98	8.98		U	1464171	597028.6
SU3-11-042D	20050721	8	12	Thorium-232	2.1	0.73	0.23			1464171	597028.6
SU3-11-043	20050721	0	4	Actinium-227	4.6	0.23	0.23		U	1464186	597028.6
SU3-11-043	20050721	0	4	Americium-241	63	0.09	0.09		U	1464186	597028.6
SU3-11-043	20050721	0	4	Cesium-137	3.8	0.07	0.07		U	1464186	597028.6
SU3-11-043	20050721	0	4	Cobalt-60	0.7	0.08	0.08		U	1464186	597028.6
SU3-11-043	20050721	0	4	Lead-210	7.4	0.78	0.72			1464186	597028.6
SU3-11-043	20050721	0	4	Plutonium-238	55	13.23	13.23		U	1464186	597028.6
SU3-11-043	20050721	0	4	Radium-226	2.9	1.78	0.8			1464186	597028.6
SU3-11-043	20050721	0	4	Thorium-230	2.8*	7.62	7.62		U	1464186	597028.6
SU3-11-043	20050721	0	4	Thorium-232	2.1	0.25	0.25		U	1464186	597028.6
SU3-11-043	20050721	4	8	Actinium-227	4.6	0.28	0.28		U	1464186	597028.6
SU3-11-043	20050721	4	8	Americium-241	63	0.09	0.09		U	1464186	597028.6
SU3-11-043	20050721	4	8	Cesium-137	3.8	0.07	0.04			1464186	597028.6
SU3-11-043	20050721	4	8	Cobalt-60	0.7	0.08	0.08		U	1464186	597028.6
SU3-11-043	20050721	4	8	Lead-210	7.4	1.06	0.72			1464186	597028.6
SU3-11-043	20050721	4	8	Plutonium-238	55	14.58	14.58		U	1464186	597028.6
SU3-11-043	20050721	4	8	Radium-226	2.9	1.6	0.89			1464186	597028.6
SU3-11-043	20050721	4	8	Thorium-230	2.8*	8.09	8.09		U	1464186	597028.6
SU3-11-043	20050721	4	8	Thorium-232	2.1	0.38	0.21			1464186	597028.6
SU3-11-043	20050721	8	12	Actinium-227	4.6	0.41	0.41		U	1464186	597028.6
SU3-11-043	20050721	8	12	Americium-241	63	0.09	0.09		U	1464186	597028.6
SU3-11-043	20050721	8	12	Cesium-137	3.8	0.09	0.04			1464186	597028.6
SU3-11-043	20050721	8	12	Cobalt-60	0.7	0.07	0.07		U	1464186	597028.6
SU3-11-043	20050721	8	12	Lead-210	7.4	1.02	0.8			1464186	597028.6
SU3-11-043	20050721	8	12	Plutonium-238	55	15.06	15.06		U	1464186	597028.6
SU3-11-043	20050721	8	12	Radium-226	2.9	1.16	0.94			1464186	597028.6
SU3-11-043	20050721	8	12	Thorium-230	2.8*	8.26	8.26		U	1464186	597028.6
SU3-11-043	20050721	8	12	Thorium-232	2.1	0.65	0.21			1464186	597028.6
SU3-11-043	20050721	12	16	Actinium-227	4.6	0.29	0.29		U	1464186	597028.6
SU3-11-043	20050721	12	16	Americium-241	63	0.1	0.1		U	1464186	597028.6
SU3-11-043	20050721	12	16	Cesium-137	3.8	0.06	0.06		U	1464186	597028.6
SU3-11-043	20050721	12	16	Cobalt-60	0.7	0.09	0.09		U	1464186	597028.6
SU3-11-043	20050721	12	16	Lead-210	7.4	0.83	0.83		U	1464186	597028.6
SU3-11-043	20050721	12	16	Plutonium-238	55	15.02	15.02		U	1464186	597028.6

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-043	20050721	12	16	Radium-226	2.9	1.82	0.88			1464186	597028.6
SU3-11-043	20050721	12	16	Thorium-230	2.8*	8.68	8.68		U	1464186	597028.6
SU3-11-043	20050721	12	16	Thorium-232	2.1	0.87	0.14			1464186	597028.6
SU3-11-043	20050721	16	20	Actinium-227	4.6	0.38	0.38		U	1464186	597028.6
SU3-11-043	20050721	16	20	Americium-241	63	0.09	0.09		U	1464186	597028.6
SU3-11-043	20050721	16	20	Cesium-137	3.8	0.05	0.05		U	1464186	597028.6
SU3-11-043	20050721	16	20	Cobalt-60	0.7	0.09	0.09		U	1464186	597028.6
SU3-11-043	20050721	16	20	Lead-210	7.4	0.83	0.83		U	1464186	597028.6
SU3-11-043	20050721	16	20	Plutonium-238	55	12.4	12.4		U	1464186	597028.6
SU3-11-043	20050721	16	20	Radium-226	2.9	2.1	0.84			1464186	597028.6
SU3-11-043	20050721	16	20	Thorium-230	2.8*	8.46	8.46		U	1464186	597028.6
SU3-11-043	20050721	16	20	Thorium-232	2.1	0.7	0.21			1464186	597028.6
SU3-11-043	20050721	20	24	Actinium-227	4.6	0.31	0.31		U	1464186	597028.6
SU3-11-043	20050721	20	24	Americium-241	63	0.07	0.07		U	1464186	597028.6
SU3-11-043	20050721	20	24	Cesium-137	3.8	0.06	0.06		U	1464186	597028.6
SU3-11-043	20050721	20	24	Cobalt-60	0.7	0.06	0.06		U	1464186	597028.6
SU3-11-043	20050721	20	24	Lead-210	7.4	0.83	0.62			1464186	597028.6
SU3-11-043	20050721	20	24	Plutonium-238	55	12.21	12.21		U	1464186	597028.6
SU3-11-043	20050721	20	24	Radium-226	2.9	1.4	0.69			1464186	597028.6
SU3-11-043	20050721	20	24	Thorium-230	2.8*	6.85	6.85		U	1464186	597028.6
SU3-11-043	20050721	20	24	Thorium-232	2.1	0.43	0.12			1464186	597028.6
SU3-11-043	20050721	24	28	Actinium-227	4.6	0.22	0.22		U	1464186	597028.6
SU3-11-043	20050721	24	28	Americium-241	63	0.07	0.07		U	1464186	597028.6
SU3-11-043	20050721	24	28	Cesium-137	3.8	0.04	0.04		U	1464186	597028.6
SU3-11-043	20050721	24	28	Cobalt-60	0.7	0.06	0.06		U	1464186	597028.6
SU3-11-043	20050721	24	28	Lead-210	7.4	0.78	0.65			1464186	597028.6
SU3-11-043	20050721	24	28	Plutonium-238	55	13.85	13.85		U	1464186	597028.6
SU3-11-043	20050721	24	28	Radium-226	2.9	1.16	0.78			1464186	597028.6
SU3-11-043	20050721	24	28	Thorium-230	2.8*	6.57	6.57		U	1464186	597028.6
SU3-11-043	20050721	24	28	Thorium-232	2.1	0.29	0.17			1464186	597028.6
SU3-11-043D	20050721	4	8	Actinium-227	4.6	0.26	0.26		U	1464186	597028.6
SU3-11-043D	20050721	4	8	Americium-241	63	0.09	0.09		U	1464186	597028.6
SU3-11-043D	20050721	4	8	Cesium-137	3.8	0.07	0.07		U	1464186	597028.6
SU3-11-043D	20050721	4	8	Cobalt-60	0.7	0.08	0.08		U	1464186	597028.6
SU3-11-043D	20050721	4	8	Lead-210	7.4	0.97	0.86			1464186	597028.6
SU3-11-043D	20050721	4	8	Plutonium-238	55	16.81	16.81		U	1464186	597028.6
SU3-11-043D	20050721	4	8	Radium-226	2.9	1.78	0.9			1464186	597028.6
SU3-11-043D	20050721	4	8	Thorium-230	2.8*	8.3	8.3		U	1464186	597028.6
SU3-11-043D	20050721	4	8	Thorium-232	2.1	0.7	0.14			1464186	597028.6
SU3-11-044	20050630	0	4	Actinium-227	4.6	0.25	0.25		U	1464129	596997.3
SU3-11-044	20050630	0	4	Americium-241	63	0.07	0.07		U	1464129	596997.3
SU3-11-044	20050630	0	4	Cesium-137	3.8	0.04	0.04		U	1464129	596997.3
SU3-11-044	20050630	0	4	Cobalt-60	0.7	0.06	0.06		U	1464129	596997.3
SU3-11-044	20050630	0	4	Lead-210	7.4	0.91	0.68			1464129	596997.3
SU3-11-044	20050630	0	4	Plutonium-238	55	15.23	15.23		U	1464129	596997.3
SU3-11-044	20050630	0	4	Radium-226	2.9	1.66	0.82			1464129	596997.3
SU3-11-044	20050630	0	4	Thorium-230	2.8*	7.05	7.05		U	1464129	596997.3
SU3-11-044	20050630	0	4	Thorium-232	2.1	0.63	0.23			1464129	596997.3
SU3-11-044	20050630	4	8	Actinium-227	4.6	0.34	0.34		U	1464129	596997.3
SU3-11-044	20050630	4	8	Americium-241	63	0.08	0.08		U	1464129	596997.3
SU3-11-044	20050630	4	8	Cesium-137	3.8	0.06	0.06		U	1464129	596997.3

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-044	20050630	4	8	Cobalt-60	0.7	0.08	0.08		U	1464129	596997.3
SU3-11-044	20050630	4	8	Lead-210	7.4	1.41	0.89			1464129	596997.3
SU3-11-044	20050630	4	8	Plutonium-238	55	19.74	19.74		U	1464129	596997.3
SU3-11-044	20050630	4	8	Radium-226	2.9	2.76	1.02			1464129	596997.3
SU3-11-044	20050630	4	8	Thorium-230	2.8*	9.2	9.2		U	1464129	596997.3
SU3-11-044	20050630	4	8	Thorium-232	2.1	0.74	0.35			1464129	596997.3
SU3-11-044	20050630	8	12	Actinium-227	4.6	0.28	0.28		U	1464129	596997.3
SU3-11-044	20050630	8	12	Americium-241	63	0.08	0.08		U	1464129	596997.3
SU3-11-044	20050630	8	12	Cesium-137	3.8	0.05	0.05		U	1464129	596997.3
SU3-11-044	20050630	8	12	Cobalt-60	0.7	0.09	0.09		U	1464129	596997.3
SU3-11-044	20050630	8	12	Lead-210	7.4	1.34	0.78			1464129	596997.3
SU3-11-044	20050630	8	12	Plutonium-238	55	16.32	16.32		U	1464129	596997.3
SU3-11-044	20050630	8	12	Radium-226	2.9	2.32	0.94			1464129	596997.3
SU3-11-044	20050630	8	12	Thorium-230	2.8*	8.44	8.44		U	1464129	596997.3
SU3-11-044	20050630	8	12	Thorium-232	2.1	1.14	0.22			1464129	596997.3
SU3-11-044	20050630	12	16	Actinium-227	4.6	0.27	0.27		U	1464129	596997.3
SU3-11-044	20050630	12	16	Americium-241	63	0.09	0.09		U	1464129	596997.3
SU3-11-044	20050630	12	16	Cesium-137	3.8	0.05	0.05		U	1464129	596997.3
SU3-11-044	20050630	12	16	Cobalt-60	0.7	0.08	0.08		U	1464129	596997.3
SU3-11-044	20050630	12	16	Lead-210	7.4	1.41	0.76			1464129	596997.3
SU3-11-044	20050630	12	16	Plutonium-238	55	17.61	17.61		U	1464129	596997.3
SU3-11-044	20050630	12	16	Radium-226	2.9	2.44	0.85			1464129	596997.3
SU3-11-044	20050630	12	16	Thorium-230	2.8*	8.02	8.02		U	1464129	596997.3
SU3-11-044	20050630	12	16	Thorium-232	2.1	1.19	0.19			1464129	596997.3
SU3-11-044	20050630	16	20	Actinium-227	4.6	0.3	0.3		U	1464129	596997.3
SU3-11-044	20050630	16	20	Americium-241	63	0.07	0.07		U	1464129	596997.3
SU3-11-044	20050630	16	20	Cesium-137	3.8	0.05	0.05		U	1464129	596997.3
SU3-11-044	20050630	16	20	Cobalt-60	0.7	0.07	0.07		U	1464129	596997.3
SU3-11-044	20050630	16	20	Lead-210	7.4	1.15	0.74			1464129	596997.3
SU3-11-044	20050630	16	20	Plutonium-238	55	16.3	16.3		U	1464129	596997.3
SU3-11-044	20050630	16	20	Radium-226	2.9	1.89	0.82			1464129	596997.3
SU3-11-044	20050630	16	20	Thorium-230	2.8*	7.3	7.3		U	1464129	596997.3
SU3-11-044	20050630	16	20	Thorium-232	2.1	0.64	0.24			1464129	596997.3
SU3-11-044	20050630	20	24	Actinium-227	4.6	0.21	0.21		U	1464129	596997.3
SU3-11-044	20050630	20	24	Americium-241	63	0.05	0.05		U	1464129	596997.3
SU3-11-044	20050630	20	24	Cesium-137	3.8	0.04	0.04		U	1464129	596997.3
SU3-11-044	20050630	20	24	Cobalt-60	0.7	0.07	0.07		U	1464129	596997.3
SU3-11-044	20050630	20	24	Lead-210	7.4	0.83	0.54			1464129	596997.3
SU3-11-044	20050630	20	24	Plutonium-238	55	13.19	13.19		U	1464129	596997.3
SU3-11-044	20050630	20	24	Radium-226	2.9	1.06	0.61			1464129	596997.3
SU3-11-044	20050630	20	24	Thorium-230	2.8*	5.63	5.63		U	1464129	596997.3
SU3-11-044	20050630	20	24	Thorium-232	2.1	0.31	0.15			1464129	596997.3
SU3-11-044	20050630	24	28	Actinium-227	4.6	0.25	0.25		U	1464129	596997.3
SU3-11-044	20050630	24	28	Americium-241	63	0.07	0.07		U	1464129	596997.3
SU3-11-044	20050630	24	28	Cesium-137	3.8	0.05	0.05		U	1464129	596997.3
SU3-11-044	20050630	24	28	Cobalt-60	0.7	0.1	0.1		U	1464129	596997.3
SU3-11-044	20050630	24	28	Lead-210	7.4	0.75	0.61			1464129	596997.3
SU3-11-044	20050630	24	28	Plutonium-238	55	15.42	15.42		U	1464129	596997.3
SU3-11-044	20050630	24	28	Radium-226	2.9	1.38	0.74			1464129	596997.3
SU3-11-044	20050630	24	28	Thorium-230	2.8*	5.6	5.6		U	1464129	596997.3
SU3-11-044	20050630	24	28	Thorium-232	2.1	0.46	0.13			1464129	596997.3

Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-044	20050630	28	32	Actinium-227	4.6	0.28	0.28		U	1464129	596997.3
SU3-11-044	20050630	28	32	Americium-241	63	0.08	0.08		U	1464129	596997.3
SU3-11-044	20050630	28	32	Cesium-137	3.8	0.06	0.06		U	1464129	596997.3
SU3-11-044	20050630	28	32	Cobalt-60	0.7	0.1	0.1		U	1464129	596997.3
SU3-11-044	20050630	28	32	Lead-210	7.4	1.15	0.64			1464129	596997.3
SU3-11-044	20050630	28	32	Plutonium-238	55	16.42	16.42		U	1464129	596997.3
SU3-11-044	20050630	28	32	Radium-226	2.9	1.42	0.82			1464129	596997.3
SU3-11-044	20050630	28	32	Thorium-230	2.8*	6.74	6.74		U	1464129	596997.3
SU3-11-044	20050630	28	32	Thorium-232	2.1	0.28	0.28		U	1464129	596997.3
SU3-11-045	20050630	0	4	Actinium-227	4.6	0.31	0.31		U	1464148	596997.3
SU3-11-045	20050630	0	4	Americium-241	63	0.08	0.08		U	1464148	596997.3
SU3-11-045	20050630	0	4	Cesium-137	3.8	0.06	0.04			1464148	596997.3
SU3-11-045	20050630	0	4	Cobalt-60	0.7	0.09	0.09		U	1464148	596997.3
SU3-11-045	20050630	0	4	Lead-210	7.4	1.16	0.69			1464148	596997.3
SU3-11-045	20050630	0	4	Plutonium-238	55	17.23	17.23		U	1464148	596997.3
SU3-11-045	20050630	0	4	Radium-226	2.9	1.74	0.82			1464148	596997.3
SU3-11-045	20050630	0	4	Thorium-230	2.8*	7.45	7.45		U	1464148	596997.3
SU3-11-045	20050630	0	4	Thorium-232	2.1	0.69	0.19			1464148	596997.3
SU3-11-045	20050630	4	8	Actinium-227	4.6	0.53	0.53		U	1464148	596997.3
SU3-11-045	20050630	4	8	Americium-241	63	0.12	0.12		U	1464148	596997.3
SU3-11-045	20050630	4	8	Cesium-137	3.8	0.1	0.1		U	1464148	596997.3
SU3-11-045	20050630	4	8	Cobalt-60	0.7	0.1	0.1		U	1464148	596997.3
SU3-11-045	20050630	4	8	Lead-210	7.4	1.19	1.19		U	1464148	596997.3
SU3-11-045	20050630	4	8	Plutonium-238	55	20.06	20.06		U	1464148	596997.3
SU3-11-045	20050630	4	8	Radium-226	2.9	2.01	1.25			1464148	596997.3
SU3-11-045	20050630	4	8	Thorium-230	2.8*	9.74	9.74		U	1464148	596997.3
SU3-11-045	20050630	4	8	Thorium-232	2.1	0.73	0.38			1464148	596997.3
SU3-11-045	20050630	8	12	Actinium-227	4.6	0.43	0.43		U	1464148	596997.3
SU3-11-045	20050630	8	12	Americium-241	63	0.1	0.1		U	1464148	596997.3
SU3-11-045	20050630	8	12	Cesium-137	3.8	0.09	0.09		U	1464148	596997.3
SU3-11-045	20050630	8	12	Cobalt-60	0.7	0.06	0.06		U	1464148	596997.3
SU3-11-045	20050630	8	12	Lead-210	7.4	1.05	0.91			1464148	596997.3
SU3-11-045	20050630	8	12	Plutonium-238	55	19.4	19.4		U	1464148	596997.3
SU3-11-045	20050630	8	12	Radium-226	2.9	2.52	0.98			1464148	596997.3
SU3-11-045	20050630	8	12	Thorium-230	2.8*	9.77	9.77		U	1464148	596997.3
SU3-11-045	20050630	8	12	Thorium-232	2.1	0.79	0.25			1464148	596997.3
SU3-11-045	20050630	12	16	Actinium-227	4.6	0.37	0.37		U	1464148	596997.3
SU3-11-045	20050630	12	16	Americium-241	63	0.1	0.1		U	1464148	596997.3
SU3-11-045	20050630	12	16	Cesium-137	3.8	0.08	0.08		U	1464148	596997.3
SU3-11-045	20050630	12	16	Cobalt-60	0.7	0.08	0.08		U	1464148	596997.3
SU3-11-045	20050630	12	16	Lead-210	7.4	0.82	0.82		U	1464148	596997.3
SU3-11-045	20050630	12	16	Plutonium-238	55	16.16	16.16		U	1464148	596997.3
SU3-11-045	20050630	12	16	Radium-226	2.9	2.14	0.87			1464148	596997.3
SU3-11-045	20050630	12	16	Thorium-230	2.8*	8.75	8.75		U	1464148	596997.3
SU3-11-045	20050630	12	16	Thorium-232	2.1	0.59	0.25			1464148	596997.3
SU3-11-045	20050630	16	20	Actinium-227	4.6	0.34	0.34		U	1464148	596997.3
SU3-11-045	20050630	16	20	Americium-241	63	0.08	0.08		U	1464148	596997.3
SU3-11-045	20050630	16	20	Cesium-137	3.8	0.07	0.07		U	1464148	596997.3
SU3-11-045	20050630	16	20	Cobalt-60	0.7	0.07	0.07		U	1464148	596997.3
SU3-11-045	20050630	16	20	Lead-210	7.4	0.84	0.74			1464148	596997.3
SU3-11-045	20050630	16	20	Plutonium-238	55	19.79	19.79		U	1464148	596997.3

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-045	20050630	16	20	Radium-226	2.9	1.23	0.86			1464148	596997.3
SU3-11-045	20050630	16	20	Thorium-230	2.8*	7.92	7.92		U	1464148	596997.3
SU3-11-045	20050630	16	20	Thorium-232	2.1	0.34	0.24			1464148	596997.3
SU3-11-045	20050630	20	28	Actinium-227	4.6	0.23	0.23		U	1464148	596997.3
SU3-11-045	20050630	20	28	Americium-241	63	0.06	0.06		U	1464148	596997.3
SU3-11-045	20050630	20	28	Cesium-137	3.8	0.03	0.02			1464148	596997.3
SU3-11-045	20050630	20	28	Cobalt-60	0.7	0.06	0.06		U	1464148	596997.3
SU3-11-045	20050630	20	28	Lead-210	7.4	1.03	0.51			1464148	596997.3
SU3-11-045	20050630	20	28	Plutonium-238	55	13.79	13.79		U	1464148	596997.3
SU3-11-045	20050630	20	28	Radium-226	2.9	1.23	0.66			1464148	596997.3
SU3-11-045	20050630	20	28	Thorium-230	2.8*	6.1	6.1		U	1464148	596997.3
SU3-11-045	20050630	20	28	Thorium-232	2.1	0.34	0.15			1464148	596997.3
SU3-11-045	20050630	28	32	Actinium-227	4.6	0.44	0.44		U	1464148	596997.3
SU3-11-045	20050630	28	32	Americium-241	63	0.11	0.11		U	1464148	596997.3
SU3-11-045	20050630	28	32	Cesium-137	3.8	0.08	0.08		U	1464148	596997.3
SU3-11-045	20050630	28	32	Cobalt-60	0.7	0.1	0.1		U	1464148	596997.3
SU3-11-045	20050630	28	32	Lead-210	7.4	0.95	0.95		U	1464148	596997.3
SU3-11-045	20050630	28	32	Plutonium-238	55	21.96	21.96		U	1464148	596997.3
SU3-11-045	20050630	28	32	Radium-226	2.9	1.85	1.05			1464148	596997.3
SU3-11-045	20050630	28	32	Thorium-230	2.8*	9.68	9.68		U	1464148	596997.3
SU3-11-045	20050630	28	32	Thorium-232	2.1	0.33	0.33			1464148	596997.3
SU3-11-045D	20050630	4	8	Actinium-227	4.6	0.53	0.53		U	1464148	596997.3
SU3-11-045D	20050630	4	8	Americium-241	63	0.12	0.12		U	1464148	596997.3
SU3-11-045D	20050630	4	8	Cesium-137	3.8	0.08	0.08		U	1464148	596997.3
SU3-11-045D	20050630	4	8	Cobalt-60	0.7	0.06	0.06		U	1464148	596997.3
SU3-11-045D	20050630	4	8	Lead-210	7.4	1.17	1.1			1464148	596997.3
SU3-11-045D	20050630	4	8	Plutonium-238	55	20.93	20.93		U	1464148	596997.3
SU3-11-045D	20050630	4	8	Radium-226	2.9	2.12	1.26			1464148	596997.3
SU3-11-045D	20050630	4	8	Thorium-230	2.8*	9.73	9.73		U	1464148	596997.3
SU3-11-045D	20050630	4	8	Thorium-232	2.1	0.8	0.31			1464148	596997.3
SU3-11-046	20050629	0	4	Actinium-227	4.6	0.43	0.43		U	1464167	596997.3
SU3-11-046	20050629	0	4	Americium-241	63	0.1	0.1		U	1464167	596997.3
SU3-11-046	20050629	0	4	Cesium-137	3.8	0.08	0.08		U	1464167	596997.3
SU3-11-046	20050629	0	4	Cobalt-60	0.7	0.06	0.06		U	1464167	596997.3
SU3-11-046	20050629	0	4	Lead-210	7.4	0.86	0.86		U	1464167	596997.3
SU3-11-046	20050629	0	4	Plutonium-238	55	21.38	21.38		U	1464167	596997.3
SU3-11-046	20050629	0	4	Radium-226	2.9	1.56	0.73			1464167	596997.3
SU3-11-046	20050629	0	4	Thorium-230	2.8*	8.49	8.49		U	1464167	596997.3
SU3-11-046	20050629	0	4	Thorium-232	2.1	0.52	0.24			1464167	596997.3
SU3-11-046	20050629	4	8	Actinium-227	4.6	0.31	0.31		U	1464167	596997.3
SU3-11-046	20050629	4	8	Americium-241	63	0.09	0.09		U	1464167	596997.3
SU3-11-046	20050629	4	8	Cesium-137	3.8	0.06	0.06		U	1464167	596997.3
SU3-11-046	20050629	4	8	Cobalt-60	0.7	0.09	0.09		U	1464167	596997.3
SU3-11-046	20050629	4	8	Lead-210	7.4	1.26	0.82			1464167	596997.3
SU3-11-046	20050629	4	8	Plutonium-238	55	20.3	20.3		U	1464167	596997.3
SU3-11-046	20050629	4	8	Radium-226	2.9	2.41	0.98			1464167	596997.3
SU3-11-046	20050629	4	8	Thorium-230	2.8*	8.48	8.48		U	1464167	596997.3
SU3-11-046	20050629	4	8	Thorium-232	2.1	1.04	0.3			1464167	596997.3
SU3-11-046	20050629	8	12	Actinium-227	4.6	0.25	0.25		U	1464167	596997.3
SU3-11-046	20050629	8	12	Americium-241	63	0.06	0.06		U	1464167	596997.3
SU3-11-046	20050629	8	12	Cesium-137	3.8	0.03	0.03		U	1464167	596997.3

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-046	20050629	8	12	Cobalt-60	0.7	0.07	0.07		U	1464167	596997.3
SU3-11-046	20050629	8	12	Lead-210	7.4	0.88	0.64			1464167	596997.3
SU3-11-046	20050629	8	12	Plutonium-238	55	15.5	15.5		U	1464167	596997.3
SU3-11-046	20050629	8	12	Radium-226	2.9	1.44	0.79			1464167	596997.3
SU3-11-046	20050629	8	12	Thorium-230	2.8*	6.59	6.59		U	1464167	596997.3
SU3-11-046	20050629	8	12	Thorium-232	2.1	0.51	0.23			1464167	596997.3
SU3-11-046	20050629	12	20	Actinium-227	4.6	0.19	0.19		U	1464167	596997.3
SU3-11-046	20050629	12	20	Americium-241	63	0.06	0.06		U	1464167	596997.3
SU3-11-046	20050629	12	20	Cesium-137	3.8	0.03	0.03		U	1464167	596997.3
SU3-11-046	20050629	12	20	Cobalt-60	0.7	0.06	0.06		U	1464167	596997.3
SU3-11-046	20050629	12	20	Lead-210	7.4	0.56	0.55			1464167	596997.3
SU3-11-046	20050629	12	20	Plutonium-238	55	13.23	13.23		U	1464167	596997.3
SU3-11-046	20050629	12	20	Radium-226	2.9	1.51	0.63			1464167	596997.3
SU3-11-046	20050629	12	20	Thorium-230	2.8*	5.87	5.87		U	1464167	596997.3
SU3-11-046	20050629	12	20	Thorium-232	2.1	0.62	0.15			1464167	596997.3
SU3-11-046	20050629	20	24	Actinium-227	4.6	0.25	0.25		U	1464167	596997.3
SU3-11-046	20050629	20	24	Americium-241	63	0.07	0.07		U	1464167	596997.3
SU3-11-046	20050629	20	24	Cesium-137	3.8	0.05	0.05		U	1464167	596997.3
SU3-11-046	20050629	20	24	Cobalt-60	0.7	0.05	0.05		U	1464167	596997.3
SU3-11-046	20050629	20	24	Lead-210	7.4	0.93	0.55			1464167	596997.3
SU3-11-046	20050629	20	24	Plutonium-238	55	12.76	12.76		U	1464167	596997.3
SU3-11-046	20050629	20	24	Radium-226	2.9	1.44	0.64			1464167	596997.3
SU3-11-046	20050629	20	24	Thorium-230	2.8*	6.13	6.13		U	1464167	596997.3
SU3-11-046	20050629	20	24	Thorium-232	2.1	0.35	0.14			1464167	596997.3
SU3-11-046	20050629	24	28	Actinium-227	4.6	0.3	0.3		U	1464167	596997.3
SU3-11-046	20050629	24	28	Americium-241	63	0.08	0.08		U	1464167	596997.3
SU3-11-046	20050629	24	28	Cesium-137	3.8	0.05	0.05		U	1464167	596997.3
SU3-11-046	20050629	24	28	Cobalt-60	0.7	0.11	0.11		U	1464167	596997.3
SU3-11-046	20050629	24	28	Lead-210	7.4	0.73	0.73		U	1464167	596997.3
SU3-11-046	20050629	24	28	Plutonium-238	55	19.41	19.41		U	1464167	596997.3
SU3-11-046	20050629	24	28	Radium-226	2.9	1.93	0.84			1464167	596997.3
SU3-11-046	20050629	24	28	Thorium-230	2.8*	7.66	7.66		U	1464167	596997.3
SU3-11-046	20050629	24	28	Thorium-232	2.1	0.26	0.26		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Actinium-227	4.6	0.31	0.31		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Americium-241	63	0.09	0.09		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Cesium-137	3.8	0.06	0.06		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Cobalt-60	0.7	0.07	0.07		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Lead-210	7.4	0.88	0.88		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Plutonium-238	55	18.85	18.85		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Radium-226	2.9	2.29	0.97			1464167	596997.3
SU3-11-046D	20050629	4	8	Thorium-230	2.8*	8.58	8.58		U	1464167	596997.3
SU3-11-046D	20050629	4	8	Thorium-232	2.1	0.83	0.29			1464167	596997.3
SU3-11-047	20050620	0	4	Actinium-227	4.6	0.33	0.33		U	1464374	596970.7
SU3-11-047	20050620	0	4	Americium-241	63	0.08	0.08		U	1464374	596970.7
SU3-11-047	20050620	0	4	Cesium-137	3.8	0.15	0.05			1464374	596970.7
SU3-11-047	20050620	0	4	Cobalt-60	0.7	0.05	0.05		U	1464374	596970.7
SU3-11-047	20050620	0	4	Lead-210	7.4	1.3	0.86			1464374	596970.7
SU3-11-047	20050620	0	4	Plutonium-238	55	18.97	18.97		U	1464374	596970.7
SU3-11-047	20050620	0	4	Radium-226	2.9	2.45	0.86			1464374	596970.7
SU3-11-047	20050620	0	4	Thorium-230	2.8*	8.06	8.06		U	1464374	596970.7
SU3-11-047	20050620	0	4	Thorium-232	2.1	1.2	0.22			1464374	596970.7

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Table 3: SU3 Onsite Characterization Results (pCi/g)

Location	Date	Depth (feet) start	Depth (feet) end	Analyte	CO	Result	DL	DQ	LQ	Coordinates easting	Coordinates northing
SU3-11-047	20050621	4	8	Actinium-227	4.6	0.23	0.23		U	1464374	596970.7
SU3-11-047	20050621	4	8	Americium-241	63	0.06	0.06		U	1464374	596970.7
SU3-11-047	20050621	4	8	Cesium-137	3.8	0.03	0.03		U	1464374	596970.7
SU3-11-047	20050621	4	8	Cobalt-60	0.7	0.08	0.08		U	1464374	596970.7
SU3-11-047	20050621	4	8	Lead-210	7.4	1	0.57			1464374	596970.7
SU3-11-047	20050621	4	8	Plutonium-238	55	13.92	13.92		U	1464374	596970.7
SU3-11-047	20050621	4	8	Radium-226	2.9	1.03	0.69			1464374	596970.7
SU3-11-047	20050621	4	8	Thorium-230	2.8*	6.3	6.3		U	1464374	596970.7
SU3-11-047	20050621	4	8	Thorium-232	2.1	0.69	0.18			1464374	596970.7
SU3-11-047	20050621	8	12	Actinium-227	4.6	0.25	0.25		U	1464374	596970.7
SU3-11-047	20050621	8	12	Americium-241	63	0.07	0.07		U	1464374	596970.7
SU3-11-047	20050621	8	12	Cesium-137	3.8	0.04	0.04		U	1464374	596970.7
SU3-11-047	20050621	8	12	Cobalt-60	0.7	0.06	0.06		U	1464374	596970.7
SU3-11-047	20050621	8	12	Lead-210	7.4	1.23	0.59			1464374	596970.7
SU3-11-047	20050621	8	12	Plutonium-238	55	14.41	14.41		U	1464374	596970.7
SU3-11-047	20050621	8	12	Radium-226	2.9	2.39	0.73			1464374	596970.7
SU3-11-047	20050621	8	12	Thorium-230	2.8*	6.34	6.34		U	1464374	596970.7
SU3-11-047	20050621	8	12	Thorium-232	2.1	0.29	0.2			1464374	596970.7
SU3-11-047	20050621	12	16	Actinium-227	4.6	0.29	0.29		U	1464374	596970.7
SU3-11-047	20050621	12	16	Americium-241	63	0.08	0.08		U	1464374	596970.7
SU3-11-047	20050621	12	16	Cesium-137	3.8	0.07	0.07		U	1464374	596970.7
SU3-11-047	20050621	12	16	Cobalt-60	0.7	0.07	0.07		U	1464374	596970.7
SU3-11-047	20050621	12	16	Lead-210	7.4	1.09	0.72			1464374	596970.7
SU3-11-047	20050621	12	16	Plutonium-238	55	14.5	14.5		U	1464374	596970.7
SU3-11-047	20050621	12	16	Radium-226	2.9	1.64	0.88			1464374	596970.7
SU3-11-047	20050621	12	16	Thorium-230	2.8*	8.32	8.32		U	1464374	596970.7
SU3-11-047	20050621	12	16	Thorium-232	2.1	0.32	0.21			1464374	596970.7
SU3-11-047	20050621	16	20	Actinium-227	4.6	0.29	0.29		U	1464374	596970.7
SU3-11-047	20050621	16	20	Americium-241	63	0.1	0.1		U	1464374	596970.7
SU3-11-047	20050621	16	20	Cesium-137	3.8	0.06	0.06		U	1464374	596970.7
SU3-11-047	20050621	16	20	Cobalt-60	0.7	0.08	0.08		U	1464374	596970.7
SU3-11-047	20050621	16	20	Lead-210	7.4	1.09	0.71			1464374	596970.7
SU3-11-047	20050621	16	20	Plutonium-238	55	12.72	12.72		U	1464374	596970.7
SU3-11-047	20050621	16	20	Radium-226	2.9	1.89	0.84			1464374	596970.7
SU3-11-047	20050621	16	20	Thorium-230	2.8*	8.78	8.78		U	1464374	596970.7
SU3-11-047	20050621	16	20	Thorium-232	2.1	0.56	0.16			1464374	596970.7

CO: cleanup objective
DL: detection limit
DQ: data qualifier
LQ: lab qualifier
U: not detetced
D: duplicate
*: in order to be usable, Th-230 DL must be below 10 pCi/g and the activity must be at or below the DL

Table 4: As-Left Landfill Wall Results (pCi/g)

Location	Date	Analyte	CO	Result	DL	Northing	Easting	Elevation
PRS11-ALW1	20050608	Actinium-227	4.6	0.36	0.36	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Americium-241	63	0.11	0.11	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Cesium-137	3.8	0.05	0.05	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Cobalt-60	0.7	0.09	0.09	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Lead-210	7.4	2.39	0.96	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Plutonium-238	55	22.85	22.85	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Radium-226	2.9	2.95	1.10	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Thorium-230	2.8	9.78	9.78	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Thorium-232	2.1	2.20	0.26	597033.534	1464089.66	694.889
PRS11-ALW1	20050608	Uranium-238	2.2	2.99	1.06	597033.534	1464089.66	694.889
PRS11-ALW2	20050608	Actinium-227	4.6	0.97	0.97	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Americium-241	63	0.24	0.24	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Cesium-137	3.8	0.14	0.14	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Cobalt-60	0.7	0.13	0.13	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Lead-210	7.4	1.84	1.84	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Plutonium-238	55	36.90	36.90	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Radium-226	2.9	7.73	2.03	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Thorium-230	2.8	21.63	21.63	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Thorium-232	2.1	8.96	0.44	597036.373	1464090.94	699.896
PRS11-ALW2	20050608	Uranium-238	2.2	35.95	2.95	597036.373	1464090.94	699.896
PRS11-ALW3	20050608	Actinium-227	4.6	1.14	1.14	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Americium-241	63	0.27	0.27	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Cesium-137	3.8	0.14	0.14	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Cobalt-60	0.7	0.15	0.15	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Lead-210	7.4	2.11	2.11	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Plutonium-238	55	43.33	43.33	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Radium-226	2.9	12.38	2.28	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Thorium-230	2.8	24.17	24.17	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Thorium-232	2.1	7.76	0.54	597039.496	1464091.93	704.073
PRS11-ALW3	20050608	Uranium-238	2.2	49.23	3.22	597039.496	1464091.93	704.073
PRS11-ALW4	20050621	Actinium-227	4.6	0.47	0.47	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Americium-241	63	0.16	0.16	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Cesium-137	3.8	0.09	0.09	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Cobalt-60	0.7	0.10	0.10	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Lead-210	7.4	8.83	1.35	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Plutonium-238	55	28.09	28.09	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Radium-226	2.9	5.06	1.74	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Thorium-230	2.8	15.73	15.73	597051.355	1464063.02	698.756
PRS11-ALW4	20050621	Thorium-232	2.1	9.04	0.33	597051.355	1464063.02	698.756
PRS11-ALW5	20050815	Actinium-227	4.6	95.64	95.64	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Americium-241	63	20.29	20.29	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Cesium-137	3.8	15.97	15.97	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Cobalt-60	0.7	13.41	13.41	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Lead-210	7.4	209.60	209.60	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Plutonium-238	55	4035.00	4035.00	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Radium-226	2.9	669.60	251.90	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Thorium-230	2.8	2015.00	2015.00	597100.256	1464027.36	704.646
PRS11-ALW5	20050815	Thorium-232	2.1	13149.00	46.32	597100.256	1464027.36	704.646
PRS11-ALW6	20050816	Actinium-227	4.6	1.82	1.82	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Americium-241	63	0.47	0.47	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Cesium-137	3.8	0.33	0.33	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Cobalt-60	0.7	0.28	0.28	597063.422	1464041.01	699.166

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Table 4: As-Left Landfill Wall Results (pCi/g)

Location	Date	Analyte	CO	Result	DL	Northing	Easting	Elevation
PRS11-ALW6	20050816	Lead-210	7.4	21.58	3.96	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Plutonium-238	55	81.71	81.71	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Radium-226	2.9	8.78	3.52	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Thorium-230	2.8	44.76	44.76	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Thorium-232	2.1	63.06	0.96	597063.422	1464041.01	699.166
PRS11-ALW6	20050816	Uranium-238	2.2	11.92	5.03	597063.422	1464041.01	699.166
PRS11-ALW7	20050817	Actinium-227	4.6	1.79	1.79	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Americium-241	63	0.47	0.47	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Cesium-137	3.8	0.27	0.27	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Cobalt-60	0.7	0.23	0.23	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Lead-210	7.4	3.62	3.62	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Plutonium-238	55	71.10	71.10	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Radium-226	2.9	11.85	4.55	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Thorium-230	2.8	43.98	43.98	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Thorium-232	2.1	40.69	0.81	597079.605	1464027.53	700.022
PRS11-ALW7	20050817	Uranium-238	2.2	8.39	4.26	597079.605	1464027.53	700.022
PRS11-ALW8	20050818	Actinium-227	4.6	0.75	0.75	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Americium-241	63	0.23	0.23	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Cesium-137	3.8	0.15	0.15	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Cobalt-60	0.7	0.16	0.16	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Lead-210	7.4	1.92	1.92	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Plutonium-238	55	46.93	46.93	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Radium-226	2.9	3.24	2.30	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Thorium-230	2.8	23.24	23.24	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Thorium-232	2.1	25.58	0.53	597100.509	1464026.98	700.859
PRS11-ALW8	20050818	Uranium-238	2.2	3.34	2.27	597100.509	1464026.98	700.859
SU1-11-023	20051130	Actinium-227	4.6	0.38	0.38	597032.774	1464085.23	691.746
SU1-11-023	20051130	Americium-241	63	0.15	0.15	597032.774	1464085.23	691.746
SU1-11-023	20051130	Beryllium-7	41.1	0.49	0.49	597032.774	1464085.23	691.746
SU1-11-023	20051130	Bismuth-207	1.2	0.06	0.06	597032.774	1464085.23	691.746
SU1-11-023	20051130	Bismuth-210M	8.3	0.08	0.08	597032.774	1464085.23	691.746
SU1-11-023	20051130	Bismuth-214	1.17	0.68	0.13	597032.774	1464085.23	691.746
SU1-11-023	20051130	Cesium-137	3.8	0.08	0.08	597032.774	1464085.23	691.746
SU1-11-023	20051130	Cobalt-60	0.7	0.09	0.09	597032.774	1464085.23	691.746
SU1-11-023	20051130	Lead-210	7.4	1.70	1.70	597032.774	1464085.23	691.746
SU1-11-023	20051130	Lead-212	16.6	0.54	0.09	597032.774	1464085.23	691.746
SU1-11-023	20051130	Lead-214	8.9	0.70	0.11	597032.774	1464085.23	691.746
SU1-11-023	20051130	Potassium-40	47.8	9.60	0.70	597032.774	1464085.23	691.746
SU1-11-023	20051130	Protactinium-231	4	2.00	2.00	597032.774	1464085.23	691.746
SU1-11-023	20051130	Radium-224	32.4	1.50	1.00	597032.774	1464085.23	691.746
SU1-11-023	20051130	Radium-226	2.9	0.68	0.13	597032.774	1464085.23	691.746
SU1-11-023	20051130	Thallium-208	0.498	0.25	0.06	597032.774	1464085.23	691.746
SU1-11-023	20051130	Thorium-228	2.6	0.59	0.07	597032.774	1464085.23	691.746
SU1-11-023	20051130	Thorium-230	2.8	1.17	0.04	597032.774	1464085.23	691.746
SU1-11-023	20051130	Thorium-232	2.1	0.60	0.04	597032.774	1464085.23	691.746
SU1-11-023	20051130	Thorium-234	176	3.20	1.30	597032.774	1464085.23	691.746
SU1-11-023	20051130	Uranium-234	176	0.71	0.02	597032.774	1464085.23	691.746
SU1-11-023	20051130	Uranium-238	2.2	3.20	1.30	597032.774	1464085.23	691.746
SU1-11-023	20051130	Uranium-238	2.2	2.21	0.02	597032.774	1464085.23	691.746
SU1-11-037	20051130	Actinium-227	4.6	0.63	0.63	597058.754	1464025.23	686.418
SU1-11-037	20051130	Actinium-228	1.93	11.80	0.30	597058.754	1464025.23	686.418
SU1-11-037	20051130	Americium-241	63	0.23	0.23	597058.754	1464025.23	686.418

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Table 4: As-Left Landfill Wall Results (pCi/g)

Location	Date	Analyte	CO	Result	DL	Northing	Easting	Elevation
SU1-11-037	20051130	Bismuth-207	1.2	0.10	0.10	597058.754	1464025.23	686.418
SU1-11-037	20051130	Bismuth-210M	8.3	0.12	0.12	597058.754	1464025.23	686.418
SU1-11-037	20051130	Bismuth-212	9.87	8.00	0.80	597058.754	1464025.23	686.418
SU1-11-037	20051130	Bismuth-214	1.17	1.67	0.21	597058.754	1464025.23	686.418
SU1-11-037	20051130	Cesium-137	3.8	0.12	0.12	597058.754	1464025.23	686.418
SU1-11-037	20051130	Cobalt-60	0.7	0.11	0.11	597058.754	1464025.23	686.418
SU1-11-037	20051130	Lead-210	7.4	2.30	2.30	597058.754	1464025.23	686.418
SU1-11-037	20051130	Lead-212	16.6	12.90	0.20	597058.754	1464025.23	686.418
SU1-11-037	20051130	Lead-214	8.9	1.87	0.18	597058.754	1464025.23	686.418
SU1-11-037	20051130	Plutonium-238	55	2.60	0.04	597058.754	1464025.23	686.418
SU1-11-037	20051130	Plutonium-239/240	62	0.03	0.03	597058.754	1464025.23	686.418
SU1-11-037	20051130	Potassium-40	47.8	13.20	0.80	597058.754	1464025.23	686.418
SU1-11-037	20051130	Protactinium-231	4	13.50	3.90	597058.754	1464025.23	686.418
SU1-11-037	20051130	Radium-224	32.4	14.10	1.70	597058.754	1464025.23	686.418
SU1-11-037	20051130	Radium-226	2.9	1.67	0.21	597058.754	1464025.23	686.418
SU1-11-037	20051130	Radium-228	2.1	11.80	0.30	597058.754	1464025.23	686.418
SU1-11-037	20051130	Thallium-208	0.498	4.37	0.11	597058.754	1464025.23	686.418
SU1-11-037	20051130	Thorium-228	2.6	13.00	0.02	597058.754	1464025.23	686.418
SU1-11-037	20051130	Thorium-230	2.8	5.18	0.01	597058.754	1464025.23	686.418
SU1-11-037	20051130	Thorium-232	2.1	14.80	0.02	597058.754	1464025.23	686.418
SU1-11-037	20051130	Thorium-232	2.1	11.80	0.30	597058.754	1464025.23	686.418
SU1-11-037	20051130	Thorium-234	176	3.30	2.20	597058.754	1464025.23	686.418
SU1-11-037	20051130	Uranium-234	176	2.86	0.01	597058.754	1464025.23	686.418
SU1-11-037	20051130	Uranium-238	2.2	2.88	0.02	597058.754	1464025.23	686.418
SU1-11-037	20051130	Uranium-238	2.2	3.30	2.20	597058.754	1464025.23	686.418
SU1-11-042	20051130	Actinium-227	4.6	0.41	0.41	597071.745	1464017.73	689.412
SU1-11-042	20051130	Actinium-228	1.93	1.89	0.15	597071.745	1464017.73	689.412
SU1-11-042	20051130	Americium-241	63	0.14	0.14	597071.745	1464017.73	689.412
SU1-11-042	20051130	Bismuth-207	1.2	0.06	0.06	597071.745	1464017.73	689.412
SU1-11-042	20051130	Bismuth-210M	8.3	0.09	0.09	597071.745	1464017.73	689.412
SU1-11-042	20051130	Bismuth-212	9.87	1.09	0.57	597071.745	1464017.73	689.412
SU1-11-042	20051130	Bismuth-214	1.17	0.74	0.14	597071.745	1464017.73	689.412
SU1-11-042	20051130	Cesium-137	3.8	0.08	0.08	597071.745	1464017.73	689.412
SU1-11-042	20051130	Cobalt-60	0.7	0.06	0.06	597071.745	1464017.73	689.412
SU1-11-042	20051130	Lead-210	7.4	1.70	1.70	597071.745	1464017.73	689.412
SU1-11-042	20051130	Lead-212	16.6	2.18	0.10	597071.745	1464017.73	689.412
SU1-11-042	20051130	Lead-214	8.9	0.64	0.12	597071.745	1464017.73	689.412
SU1-11-042	20051130	Potassium-40	47.8	8.00	0.50	597071.745	1464017.73	689.412
SU1-11-042	20051130	Protactinium-231	4	2.80	2.50	597071.745	1464017.73	689.412
SU1-11-042	20051130	Radium-224	32.4	2.80	1.10	597071.745	1464017.73	689.412
SU1-11-042	20051130	Radium-226	2.9	0.74	0.14	597071.745	1464017.73	689.412
SU1-11-042	20051130	Radium-228	2.1	1.89	0.15	597071.745	1464017.73	689.412
SU1-11-042	20051130	Thallium-208	0.498	0.82	0.06	597071.745	1464017.73	689.412
SU1-11-042	20051130	Thorium-228	2.6	4.22	0.05	597071.745	1464017.73	689.412
SU1-11-042	20051130	Thorium-230	2.8	2.50	0.02	597071.745	1464017.73	689.412
SU1-11-042	20051130	Thorium-232	2.1	4.63	0.04	597071.745	1464017.73	689.412
SU1-11-042	20051130	Thorium-232	2.1	1.89	0.15	597071.745	1464017.73	689.412
SU1-11-042	20051130	Uranium-234	176	1.54	0.02	597071.745	1464017.73	689.412
SU1-11-042	20051130	Uranium-238	2.2	1.63	0.02	597071.745	1464017.73	689.412
SU1-11-052	20051130	Actinium-227	4.6	0.42	0.42	597097.726	1464017.73	691.99
SU1-11-052	20051130	Actinium-228	1.93	3.44	0.20	597097.726	1464017.73	691.99
SU1-11-052	20051130	Americium-241	63	0.17	0.17	597097.726	1464017.73	691.99

Table 4: As-Left Landfill Wall Results (pCi/g)

Location	Date	Analyte	CO	Result	DL	Northing	Easting	Elevation
SU1-11-052	20051130	Bismuth-207	1.2	0.06	0.06	597097.726	1464017.73	691.99
SU1-11-052	20051130	Bismuth-210M	8.3	0.09	0.09	597097.726	1464017.73	691.99
SU1-11-052	20051130	Bismuth-212	9.87	2.10	0.61	597097.726	1464017.73	691.99
SU1-11-052	20051130	Bismuth-214	1.17	0.92	0.14	597097.726	1464017.73	691.99
SU1-11-052	20051130	Cesium-137	3.8	0.08	0.08	597097.726	1464017.73	691.99
SU1-11-052	20051130	Cobalt-60	0.7	0.07	0.07	597097.726	1464017.73	691.99
SU1-11-052	20051130	Lead-210	7.4	1.80	1.80	597097.726	1464017.73	691.99
SU1-11-052	20051130	Lead-212	16.6	3.43	0.10	597097.726	1464017.73	691.99
SU1-11-052	20051130	Lead-214	8.9	0.82	0.13	597097.726	1464017.73	691.99
SU1-11-052	20051130	Potassium-40	47.8	10.50	0.60	597097.726	1464017.73	691.99
SU1-11-052	20051130	Protactinium-231	4	3.90	2.60	597097.726	1464017.73	691.99
SU1-11-052	20051130	Radium-224	32.4	4.00	1.10	597097.726	1464017.73	691.99
SU1-11-052	20051130	Radium-226	2.9	0.92	0.14	597097.726	1464017.73	691.99
SU1-11-052	20051130	Radium-228	2.1	3.44	0.20	597097.726	1464017.73	691.99
SU1-11-052	20051130	Thallium-208	0.498	1.23	0.07	597097.726	1464017.73	691.99
SU1-11-052	20051130	Thorium-228	2.6	5.21	0.02	597097.726	1464017.73	691.99
SU1-11-052	20051130	Thorium-230	2.8	1.69	0.03	597097.726	1464017.73	691.99
SU1-11-052	20051130	Thorium-232	2.1	5.16	0.01	597097.726	1464017.73	691.99
SU1-11-052	20051130	Thorium-232	2.1	3.44	0.20	597097.726	1464017.73	691.99
SU1-11-052	20051130	Uranium-234	176	1.07	0.02	597097.726	1464017.73	691.99
SU1-11-052	20051130	Uranium-238	2.2	1.01	0.01	597097.726	1464017.73	691.99
SU2-11-066	20051201	Actinium-227	4.6	0.43	0.43	597036.159	1464094.24	701.163
SU2-11-066	20051201	Actinium-228	1.93	3.61	0.25	597036.159	1464094.24	701.163
SU2-11-066	20051201	Americium-241	63	0.20	0.20	597036.159	1464094.24	701.163
SU2-11-066	20051201	Beryllium-7	41.1	0.63	0.63	597036.159	1464094.24	701.163
SU2-11-066	20051201	Bismuth-207	1.2	0.08	0.08	597036.159	1464094.24	701.163
SU2-11-066	20051201	Bismuth-210M	8.3	0.09	0.09	597036.159	1464094.24	701.163
SU2-11-066	20051201	Bismuth-212	9.87	2.21	0.68	597036.159	1464094.24	701.163
SU2-11-066	20051201	Bismuth-214	1.17	1.13	0.16	597036.159	1464094.24	701.163
SU2-11-066	20051201	Cesium-137	3.8	0.10	0.10	597036.159	1464094.24	701.163
SU2-11-066	20051201	Cobalt-60	0.7	0.09	0.09	597036.159	1464094.24	701.163
SU2-11-066	20051201	Lead-210	7.4	2.00	2.00	597036.159	1464094.24	701.163
SU2-11-066	20051201	Lead-212	16.6	3.67	0.11	597036.159	1464094.24	701.163
SU2-11-066	20051201	Lead-214	8.9	1.29	0.13	597036.159	1464094.24	701.163
SU2-11-066	20051201	Plutonium-238	55	34.00	0.03	597036.159	1464094.24	701.163
SU2-11-066	20051201	Plutonium-239/240	62	0.32	0.01	597036.159	1464094.24	701.163
SU2-11-066	20051201	Potassium-40	47.8	19.10	0.80	597036.159	1464094.24	701.163
SU2-11-066	20051201	Protactinium-231	4	4.40	2.80	597036.159	1464094.24	701.163
SU2-11-066	20051201	Radium-224	32.4	4.30	1.20	597036.159	1464094.24	701.163
SU2-11-066	20051201	Radium-226	2.9	1.13	0.16	597036.159	1464094.24	701.163
SU2-11-066	20051201	Radium-228	2.1	3.61	0.25	597036.159	1464094.24	701.163
SU2-11-066	20051201	Thallium-208	0.498	1.21	0.08	597036.159	1464094.24	701.163
SU2-11-066	20051201	Thorium-228	2.6	3.18	0.02	597036.159	1464094.24	701.163
SU2-11-066	20051201	Thorium-230	2.8	1.41	0.03	597036.159	1464094.24	701.163
SU2-11-066	20051201	Thorium-232	2.1	2.96	0.01	597036.159	1464094.24	701.163
SU2-11-066	20051201	Thorium-232	2.1	3.61	0.25	597036.159	1464094.24	701.163
SU2-11-066	20051201	Uranium-234	176	0.79	0.02	597036.159	1464094.24	701.163
SU2-11-066	20051201	Uranium-238	2.2	0.96	0.01	597036.159	1464094.24	701.163

CO: cleanup objective
DL: detection limit

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-035	11/30/2005	Aluminum	232000	4740.000	22.50	N		1463995.228	597058.754
SU1-11-035	11/30/2005	Antimony	85.2	1.100	1.10	UN		1463995.228	597058.754
SU1-11-035	11/30/2005	Arsenic	72.5	6.100	1.10			1463995.228	597058.754
SU1-11-035	11/30/2005	Barium	15100	27.800	22.50			1463995.228	597058.754
SU1-11-035	11/30/2005	Beryllium	422	0.320	0.56	B		1463995.228	597058.754
SU1-11-035	11/30/2005	Cadmium	215	0.560	0.56	U		1463995.228	597058.754
SU1-11-035	11/30/2005	Calcium	na	124000.000	2810.00	N		1463995.228	597058.754
SU1-11-035	11/30/2005	Chromium	319000	6.700	1.10			1463995.228	597058.754
SU1-11-035	11/30/2005	Cobalt	12800	4.400	5.60	B		1463995.228	597058.754
SU1-11-035	11/30/2005	Copper	8540	10.600	2.80			1463995.228	597058.754
SU1-11-035	11/30/2005	Iron	na	11100.000	11.30	N		1463995.228	597058.754
SU1-11-035	11/30/2005	Lead	na	5.700	0.34			1463995.228	597058.754
SU1-11-035	11/30/2005	Magnesium	na	53800.000	2810.00	N		1463995.228	597058.754
SU1-11-035	11/30/2005	Manganese	24200	241.000	1.70	NE		1463995.228	597058.754
SU1-11-035	11/30/2005	Mercury	63.9	0.038	0.04	UN		1463995.228	597058.754
SU1-11-035	11/30/2005	Molybdenum	1090	1.900	4.50	B		1463995.228	597058.754
SU1-11-035	11/30/2005	Nickel	4290	11.900	4.50			1463995.228	597058.754
SU1-11-035	11/30/2005	Potassium	na	1610.000	563.00			1463995.228	597058.754
SU1-11-035	11/30/2005	Selenium	1060	0.560	0.56	U		1463995.228	597058.754
SU1-11-035	11/30/2005	Silver	1070	1.100	1.10	U		1463995.228	597058.754
SU1-11-035	11/30/2005	Sodium	na	163.000	563.00	B		1463995.228	597058.754
SU1-11-035	11/30/2005	Thallium	17.5	0.660	1.10	B		1463995.228	597058.754
SU1-11-035	11/30/2005	Vanadium	1520	11.600	2.30			1463995.228	597058.754
SU1-11-035	11/30/2005	Zinc	64000	37.500	2.30			1463995.228	597058.754
SU1-11-039	11/29/2005	1,1,1-Trichloroethane	3310.00	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,1,2-Trichloroethane	19	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,1-Dichloroethane	10600	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,1-Dichloroethene	102000	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.080	6.00			1463972.728	597071.745
SU1-11-039	11/29/2005	1,2-Dichloroethane	7.61	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,2-Dichloropropane	21.6	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,2-trans-Dichloroethene	4260	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,3-cis-Dichloropropene	na	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	1,3-trans-Dichloropropene	na	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	2-Butanone	9300	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	2-Hexanone	na	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	4-Methyl-2-pentanone	na	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Acetone	192000	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Benzene	490	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Bromodichloromethane	481	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Bromoform	3770	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Bromomethane	12.6	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Carbon Disulfide	1160	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Carbon Tetrachloride	5.38	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Chlorobenzene	489	0.006	6.00	U		1463972.728	597071.745

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-039	11/29/2005	Chloroethane	160	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Chloromethane	27.1	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Dibromochloromethane	355	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.012	12.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Ethylbenzene	0.48	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	mp-Xylene	na	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	o-Xylene	426000	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Styrene	14500	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Tetrachloroethene (PCE)	2130	0.020	6.00			1463972.728	597071.745
SU1-11-039	11/29/2005	Toluene	250	0.006	6.00	U		1463972.728	597071.745
SU1-11-039	11/29/2005	Trichloroethylene (TCE)	na	0.590	30.00			1463972.728	597071.745
SU1-11-039	11/29/2005	Trichloromethane (Cholorform)	1500	0.006	6.00			1463972.728	597071.745
SU1-11-039	11/29/2005	Vinyl Chloride	4.14	0.012	12.00	U		1463972.728	597071.745
SU1-11-040	11/30/2005	1,1,1-Trichloroethane	3310.00	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,1,2-Trichloroethane	19	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,1-Dichloroethane	10600	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,1-Dichloroethene	102000	0.100	55.00			1463987.728	597071.745
SU1-11-040	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	26.000	28000.00	J		1463987.728	597071.745
SU1-11-040	11/30/2005	1,2-Dichloroethane	7.61	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,2-Dichloropropane	21.6	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,2-trans-Dichloroethene	4260	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,3-cis-Dichloropropene	na	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	1,3-trans-Dichloropropene	na	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	2-Butanone	9300	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	2-Hexanone	na	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	4-Methyl-2-pentanone	na	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Acetone	192000	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Aluminum	232000	3240.000	22.90	N		1463987.728	597071.745
SU1-11-040	11/30/2005	Antimony	85.2	1.200	1.20	UN		1463987.728	597071.745
SU1-11-040	11/30/2005	Arsenic	72.5	4.500	1.20			1463987.728	597071.745
SU1-11-040	11/30/2005	Barium	15100	15.500	22.90	B		1463987.728	597071.745
SU1-11-040	11/30/2005	Benzene	490	28.000	28000.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Beryllium	422	0.230	0.57	B		1463987.728	597071.745
SU1-11-040	11/30/2005	Bromodichloromethane	481	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Bromoform	3770	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Bromomethane	12.6	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Cadmium	215	0.570	0.57	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Calcium	na	88100.000	2870.00	N		1463987.728	597071.745
SU1-11-040	11/30/2005	Carbon Disulfide	1160	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Carbon Tetrachloride	5.38	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Chlorobenzene	489	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Chloroethane	160	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Chloromethane	27.1	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Chromium	319000	5.700	1.20			1463987.728	597071.745
SU1-11-040	11/30/2005	Cobalt	12800	3.300	5.70	B		1463987.728	597071.745

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-040	11/30/2005	Copper	8540	10.500	2.90			1463987.728	597071.745
SU1-11-040	11/30/2005	Dibromochloromethane	355	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Ethylbenzene	0.48	9.600	28000.00	J		1463987.728	597071.745
SU1-11-040	11/30/2005	Iron	na	8250.000	11.50	N		1463987.728	597071.745
SU1-11-040	11/30/2005	Lead	na	4.200	0.34			1463987.728	597071.745
SU1-11-040	11/30/2005	Magnesium	na	36400.000	2870.00	N		1463987.728	597071.745
SU1-11-040	11/30/2005	Manganese	24200	226.000	1.70	NE		1463987.728	597071.745
SU1-11-040	11/30/2005	Mercury	63.9	0.038	0.04	UN		1463987.728	597071.745
SU1-11-040	11/30/2005	Molybdenum	1090	1.600	4.60	B		1463987.728	597071.745
SU1-11-040	11/30/2005	mp-Xylene	na	25.000	28000.00	J		1463987.728	597071.745
SU1-11-040	11/30/2005	Nickel	4290	9.800	4.60			1463987.728	597071.745
SU1-11-040	11/30/2005	o-Xylene	426000	7.500	28000.00	J		1463987.728	597071.745
SU1-11-040	11/30/2005	Potassium	na	894.000	573.00			1463987.728	597071.745
SU1-11-040	11/30/2005	Selenium	1060	0.570	0.57	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Silver	1070	1.200	1.20	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Sodium	na	123.000	573.00	B		1463987.728	597071.745
SU1-11-040	11/30/2005	Styrene	14500	0.055	55.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Tetrachloroethene (PCE)	2130	230.000	28000.00			1463987.728	597071.745
SU1-11-040	11/30/2005	Thallium	17.5	1.200	1.20	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Toluene	250	3800.000	280000.00			1463987.728	597071.745
SU1-11-040	11/30/2005	Trichloroethylene (TCE)	na	5400.000	280000.00			1463987.728	597071.745
SU1-11-040	11/30/2005	Trichloromethane (Cholorform)	1500	53.000	28000.00			1463987.728	597071.745
SU1-11-040	11/30/2005	Vanadium	1520	8.900	2.30			1463987.728	597071.745
SU1-11-040	11/30/2005	Vinyl Chloride	4.14	0.110	110.00	U		1463987.728	597071.745
SU1-11-040	11/30/2005	Zinc	64000	30.900	2.30			1463987.728	597071.745
SU1-11-041	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	1,1,2-Trichloroethane	19	0.002	5.60	J		1464002.728	597071.745
SU1-11-041	11/30/2005	1,1-Dichloroethane	10600	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	1,1-Dichloroethene	102000	0.002	5.60	J		1464002.728	597071.745
SU1-11-041	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	8.800	700.00			1464002.728	597071.745
SU1-11-041	11/30/2005	1,2-Dichloroethane	7.61	0.009	5.60			1464002.728	597071.745
SU1-11-041	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	1,2-trans-Dichloroethene	4260	0.055	5.60			1464002.728	597071.745
SU1-11-041	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	2-Butanone	9300	0.011	11.00	U		1464002.728	597071.745
SU1-11-041	11/30/2005	2-Hexanone	na	0.011	11.00	U		1464002.728	597071.745
SU1-11-041	11/30/2005	4-Methyl-2-pentanone	na	0.055	11.00			1464002.728	597071.745
SU1-11-041	11/30/2005	Acetone	192000	0.011	11.00	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Aluminum	232000	4970.000	23.40	N		1464002.728	597071.745
SU1-11-041	11/30/2005	Antimony	85.2	1.200	1.20	UN		1464002.728	597071.745
SU1-11-041	11/30/2005	Arsenic	72.5	3.600	1.20			1464002.728	597071.745
SU1-11-041	11/30/2005	Barium	15100	22.800	23.40	B		1464002.728	597071.745
SU1-11-041	11/30/2005	Benzene	490	0.036	5.60			1464002.728	597071.745

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-041	11/30/2005	Beryllium	422	0.320	0.59	B		1464002.728	597071.745
SU1-11-041	11/30/2005	Bromodichloromethane	481	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Bromoform	3770	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Cadmium	215	0.590	0.59	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Calcium	na	123000.000	2930.00	N		1464002.728	597071.745
SU1-11-041	11/30/2005	Carbon Disulfide	1160	0.006	5.60			1464002.728	597071.745
SU1-11-041	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Chlorobenzene	489	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Chloroethane	160	0.011	11.00	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Chromium	319000	6.900	1.20			1464002.728	597071.745
SU1-11-041	11/30/2005	Cobalt	12800	3.900	5.90	B		1464002.728	597071.745
SU1-11-041	11/30/2005	Copper	8540	11.100	2.90			1464002.728	597071.745
SU1-11-041	11/30/2005	Dibromochloromethane	355	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.016	11.00			1464002.728	597071.745
SU1-11-041	11/30/2005	Ethylbenzene	0.48	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Iron	na	9960.000	11.70	N		1464002.728	597071.745
SU1-11-041	11/30/2005	Lead	na	5.500	0.35			1464002.728	597071.745
SU1-11-041	11/30/2005	Magnesium	na	57200.000	2930.00	N		1464002.728	597071.745
SU1-11-041	11/30/2005	Manganese	24200	191.000	1.80	NE		1464002.728	597071.745
SU1-11-041	11/30/2005	Mercury	63.9	0.039	0.04	UN		1464002.728	597071.745
SU1-11-041	11/30/2005	Molybdenum	1090	2.000	4.70	B		1464002.728	597071.745
SU1-11-041	11/30/2005	mp-Xylene	na	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Nickel	4290	11.400	4.70			1464002.728	597071.745
SU1-11-041	11/30/2005	o-Xylene	426000	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Potassium	na	1480.000	585.00			1464002.728	597071.745
SU1-11-041	11/30/2005	Selenium	1060	0.590	0.59	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Silver	1070	1.200	1.20	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Sodium	na	150.000	585.00	B		1464002.728	597071.745
SU1-11-041	11/30/2005	Styrene	14500	0.006	5.60	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Tetrachloroethene (PCE)	2130	0.062	5.60			1464002.728	597071.745
SU1-11-041	11/30/2005	Thallium	17.5	1.200	1.20	U		1464002.728	597071.745
SU1-11-041	11/30/2005	Toluene	250	46.000	5600.00			1464002.728	597071.745
SU1-11-041	11/30/2005	Trichloroethylene (TCE)	na	120.000	5600.00			1464002.728	597071.745
SU1-11-041	11/30/2005	Trichloromethane (Cholorform)	1500	0.091	5.60			1464002.728	597071.745
SU1-11-041	11/30/2005	Vanadium	1520	11.500	2.30			1464002.728	597071.745
SU1-11-041	11/30/2005	Vinyl Chloride	4.14	0.048	11.00			1464002.728	597071.745
SU1-11-041	11/30/2005	Zinc	64000	34.100	2.30			1464002.728	597071.745
SU1-11-042	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.037	5.50			1464017.728	597071.745
SU1-11-042	11/30/2005	1,2-Dichloroethane	7.61	0.006	5.50	U		1464017.728	597071.745

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-042	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,2-trans-Dichloroethene	4260	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	2-Butanone	9300	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	2-Hexanone	na	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	4-Methyl-2-pentanone	na	0.002	11.00	J		1464017.728	597071.745
SU1-11-042	11/30/2005	Acetone	192000	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Benzene	490	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Bromodichloromethane	481	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Bromoform	3770	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Carbon Disulfide	1160	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Chlorobenzene	489	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Chloroethane	160	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Dibromochloromethane	355	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Ethylbenzene	0.48	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	mp-Xylene	na	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	o-Xylene	426000	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Styrene	14500	0.006	5.50	U		1464017.728	597071.745
SU1-11-042	11/30/2005	Tetrachloroethene (PCE)	2130	0.007	5.50			1464017.728	597071.745
SU1-11-042	11/30/2005	Toluene	250	0.170	5.50			1464017.728	597071.745
SU1-11-042	11/30/2005	Trichloroethylene (TCE)	na	0.760	55.00			1464017.728	597071.745
SU1-11-042	11/30/2005	Trichloromethane (Cholorform)	1500	0.048	5.50			1464017.728	597071.745
SU1-11-042	11/30/2005	Vinyl Chloride	4.14	0.011	11.00	U		1464017.728	597071.745
SU1-11-044	11/29/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,1,2-Trichloroethane	19	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.005	5.50	J		1463965.228	597084.735
SU1-11-044	11/29/2005	1,2-Dichloroethane	7.61	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,2-Dichloropropane	21.6	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,2-trans-Dichloroethene	4260	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	2-Butanone	9300	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	2-Hexanone	na	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Acetone	192000	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Benzene	490	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Bromodichloromethane	481	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Bromoform	3770	0.006	5.50	U		1463965.228	597084.735

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-044	11/29/2005	Bromomethane	12.6	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Carbon Disulfide	1160	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Chlorobenzene	489	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Chloroethane	160	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Chloromethane	27.1	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Dibromochloromethane	355	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Ethylbenzene	0.48	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	mp-Xylene	na	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	o-Xylene	426000	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Styrene	14500	0.006	5.50	U		1463965.228	597084.735
SU1-11-044	11/29/2005	Tetrachloroethene (PCE)	2130	0.003	5.50	J		1463965.228	597084.735
SU1-11-044	11/29/2005	Toluene	250	0.110	5.50			1463965.228	597084.735
SU1-11-044	11/29/2005	Trichloroethylene (TCE)	na	0.230	5.50	E		1463965.228	597084.735
SU1-11-044	11/29/2005	Trichloromethane (Cholorform)	1500	0.009	5.50			1463965.228	597084.735
SU1-11-044	11/29/2005	Vinyl Chloride	4.14	0.011	11.00	U		1463965.228	597084.735
SU1-11-045	11/29/2005	1,1,1-Trichloroethane	3310.00	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,1,2-Trichloroethane	19	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,1-Dichloroethane	10600	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,1-Dichloroethene	102000	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.006	5.30			1463980.228	597084.735
SU1-11-045	11/29/2005	1,2-Dichloroethane	7.61	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,2-Dichloropropane	21.6	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,2-trans-Dichloroethene	4260	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,3-cis-Dichloropropene	na	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	1,3-trans-Dichloropropene	na	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	2-Butanone	9300	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	2-Hexanone	na	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Acetone	192000	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Benzene	490	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Bromodichloromethane	481	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Bromoform	3770	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Bromomethane	12.6	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Carbon Disulfide	1160	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Carbon Tetrachloride	5.38	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Chlorobenzene	489	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Chloroethane	160	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Chloromethane	27.1	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Dibromochloromethane	355	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Ethylbenzene	0.48	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	mp-Xylene	na	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	o-Xylene	426000	0.005	5.30	U		1463980.228	597084.735

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-045	11/29/2005	Styrene	14500	0.005	5.30	U		1463980.228	597084.735
SU1-11-045	11/29/2005	Tetrachloroethene (PCE)	2130	0.003	5.30	J		1463980.228	597084.735
SU1-11-045	11/29/2005	Toluene	250	0.024	5.30			1463980.228	597084.735
SU1-11-045	11/29/2005	Trichloroethylene (TCE)	na	0.260	5.30	E		1463980.228	597084.735
SU1-11-045	11/29/2005	Trichloromethane (Cholorform)	1500	0.010	5.30			1463980.228	597084.735
SU1-11-045	11/29/2005	Vinyl Chloride	4.14	0.011	11.00	U		1463980.228	597084.735
SU1-11-046	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,1-Dichloroethane	10600	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,1-Dichloroethene	102000	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	2.200	710.00			1463995.228	597084.735
SU1-11-046	11/30/2005	1,2-Dichloroethane	7.61	0.011	5.70			1463995.228	597084.735
SU1-11-046	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,2-trans-Dichloroethene	4260	0.024	5.70			1463995.228	597084.735
SU1-11-046	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	2-Butanone	9300	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	2-Hexanone	na	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Acetone	192000	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Aluminum	232000	4890.000	23.60	N		1463995.228	597084.735
SU1-11-046	11/30/2005	Antimony	85.2	1.200	1.20	UN		1463995.228	597084.735
SU1-11-046	11/30/2005	Arsenic	72.5	5.100	1.20			1463995.228	597084.735
SU1-11-046	11/30/2005	Barium	15100	29.100	23.60			1463995.228	597084.735
SU1-11-046	11/30/2005	Benzene	490	0.025	5.70			1463995.228	597084.735
SU1-11-046	11/30/2005	Beryllium	422	0.360	0.59	B		1463995.228	597084.735
SU1-11-046	11/30/2005	Bromodichloromethane	481	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Bromoform	3770	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Cadmium	215	0.590	0.59	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Calcium	na	112000.000	2950.00	N		1463995.228	597084.735
SU1-11-046	11/30/2005	Carbon Disulfide	1160	0.019	5.70			1463995.228	597084.735
SU1-11-046	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Chlorobenzene	489	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Chloroethane	160	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Chromium	319000	7.400	1.20			1463995.228	597084.735
SU1-11-046	11/30/2005	Cobalt	12800	4.600	5.90	B		1463995.228	597084.735
SU1-11-046	11/30/2005	Copper	8540	13.600	3.00			1463995.228	597084.735
SU1-11-046	11/30/2005	Dibromochloromethane	355	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.046	11.00			1463995.228	597084.735
SU1-11-046	11/30/2005	Ethylbenzene	0.48	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Iron	na	11000.000	11.80	N		1463995.228	597084.735
SU1-11-046	11/30/2005	Lead	na	6.500	0.35			1463995.228	597084.735
SU1-11-046	11/30/2005	Magnesium	na	46900.000	2950.00	N		1463995.228	597084.735

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-046	11/30/2005	Manganese	24200	213.000	1.80	NE		1463995.228	597084.735
SU1-11-046	11/30/2005	Mercury	63.9	0.027	0.04	BN		1463995.228	597084.735
SU1-11-046	11/30/2005	Molybdenum	1090	2.800	4.70	B		1463995.228	597084.735
SU1-11-046	11/30/2005	mp-Xylene	na	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Nickel	4290	12.400	4.70			1463995.228	597084.735
SU1-11-046	11/30/2005	o-Xylene	426000	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Potassium	na	1590.000	589.00			1463995.228	597084.735
SU1-11-046	11/30/2005	Selenium	1060	0.590	0.59	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Silver	1070	1.200	1.20	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Sodium	na	146.000	589.00	B		1463995.228	597084.735
SU1-11-046	11/30/2005	Styrene	14500	0.006	5.70	U		1463995.228	597084.735
SU1-11-046	11/30/2005	Tetrachloroethene (PCE)	2130	0.120	5.70			1463995.228	597084.735
SU1-11-046	11/30/2005	Thallium	17.5	0.780	1.20	B		1463995.228	597084.735
SU1-11-046	11/30/2005	Toluene	250	30.000	5700.00			1463995.228	597084.735
SU1-11-046	11/30/2005	Trichloroethylene (TCE)	na	72.000	5700.00			1463995.228	597084.735
SU1-11-046	11/30/2005	Trichloromethane (Cholorform)	1500	0.670	710.00	J		1463995.228	597084.735
SU1-11-046	11/30/2005	Vanadium	1520	12.400	2.40			1463995.228	597084.735
SU1-11-046	11/30/2005	Vinyl Chloride	4.14	0.031	11.00			1463995.228	597084.735
SU1-11-046	11/30/2005	Zinc	64000	35.000	2.40			1463995.228	597084.735
SU1-11-047	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.120	5.50			1464010.228	597084.735
SU1-11-047	11/30/2005	1,2-Dichloroethane	7.61	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,2-trans-Dichloroethene	4260	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	2-Butanone	9300	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	2-Hexanone	na	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Acetone	192000	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Benzene	490	0.001	5.50	J		1464010.228	597084.735
SU1-11-047	11/30/2005	Bromodichloromethane	481	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Bromoform	3770	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Carbon Disulfide	1160	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Chlorobenzene	489	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Chloroethane	160	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Dibromochloromethane	355	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.006	11.00	J		1464010.228	597084.735
SU1-11-047	11/30/2005	Ethylbenzene	0.48	0.002	5.50	J		1464010.228	597084.735

11/400 H

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-047	11/30/2005	mp-Xylene	na	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	o-Xylene	426000	0.002	5.50	J		1464010.228	597084.735
SU1-11-047	11/30/2005	Styrene	14500	0.006	5.50	U		1464010.228	597084.735
SU1-11-047	11/30/2005	Tetrachloroethene (PCE)	2130	0.130	5.50			1464010.228	597084.735
SU1-11-047	11/30/2005	Toluene	250	3.800	690.00			1464010.228	597084.735
SU1-11-047	11/30/2005	Trichloroethylene (TCE)	na	7.800	690.00			1464010.228	597084.735
SU1-11-047	11/30/2005	Trichloromethane (Cholorform)	1500	0.120	5.50			1464010.228	597084.735
SU1-11-047	11/30/2005	Vinyl Chloride	4.14	0.011	11.00	U		1464010.228	597084.735
SU1-11-048	11/29/2005	1,1,1-Trichloroethane	3310.00	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,1,2-Trichloroethane	19	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,1-Dichloroethane	10600	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,1-Dichloroethene	102000	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.190	7.90			1463957.728	597097.726
SU1-11-048	11/29/2005	1,2-Dichloroethane	7.61	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,2-Dichloropropane	21.6	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,2-trans-Dichloroethene	4260	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,3-cis-Dichloropropene	na	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	1,3-trans-Dichloropropene	na	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	2-Butanone	9300	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	2-Hexanone	na	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	4-Methyl-2-pentanone	na	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Acetone	192000	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Benzene	490	0.003	7.90	J		1463957.728	597097.726
SU1-11-048	11/29/2005	Bromodichloromethane	481	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Bromoform	3770	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Bromomethane	12.6	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Carbon Disulfide	1160	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Carbon Tetrachloride	5.38	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Chlorobenzene	489	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Chloroethane	160	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Chloromethane	27.1	0.016	16.00	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Dibromochloromethane	355	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.011	16.00	J		1463957.728	597097.726
SU1-11-048	11/29/2005	Ethylbenzene	0.48	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	mp-Xylene	na	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	o-Xylene	426000	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Styrene	14500	0.008	7.90	U		1463957.728	597097.726
SU1-11-048	11/29/2005	Tetrachloroethene (PCE)	2130	0.008	7.90	J		1463957.728	597097.726
SU1-11-048	11/29/2005	Toluene	250	1.200	79.00			1463957.728	597097.726
SU1-11-048	11/29/2005	Trichloroethylene (TCE)	na	4.500	79.00	E		1463957.728	597097.726
SU1-11-048	11/29/2005	Trichloromethane (Cholorform)	1500	0.160	7.90			1463957.728	597097.726
SU1-11-048	11/29/2005	Vinyl Chloride	4.14	0.016	16.00	U		1463957.728	597097.726
SU1-11-049	11/29/2005	1,1,1-Trichloroethane	3310.00	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,1,2-Trichloroethane	19	0.005	5.30	U		1463972.728	597097.726

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-049	11/29/2005	1,1-Dichloroethane	10600	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,1-Dichloroethene	102000	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.002	5.30	J		1463972.728	597097.726
SU1-11-049	11/29/2005	1,2-Dichloroethane	7.61	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,2-Dichloropropane	21.6	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,2-trans-Dichloroethene	4260	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,3-cis-Dichloropropene	na	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	1,3-trans-Dichloropropene	na	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	2-Butanone	9300	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	2-Hexanone	na	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Acetone	192000	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Benzene	490	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Bromodichloromethane	481	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Bromoform	3770	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Bromomethane	12.6	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Carbon Disulfide	1160	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Carbon Tetrachloride	5.38	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Chlorobenzene	489	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Chloroethane	160	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Chloromethane	27.1	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Dibromochloromethane	355	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Ethylbenzene	0.48	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	mp-Xylene	na	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	o-Xylene	426000	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Styrene	14500	0.005	5.30	U		1463972.728	597097.726
SU1-11-049	11/29/2005	Tetrachloroethene (PCE)	2130	0.002	5.30	J		1463972.728	597097.726
SU1-11-049	11/29/2005	Toluene	250	0.030	5.30			1463972.728	597097.726
SU1-11-049	11/29/2005	Trichloroethylene (TCE)	na	0.120	5.30			1463972.728	597097.726
SU1-11-049	11/29/2005	Trichloromethane (Cholorform)	1500	0.006	5.30			1463972.728	597097.726
SU1-11-049	11/29/2005	Vinyl Chloride	4.14	0.011	11.00	U		1463972.728	597097.726
SU1-11-050	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	1,1,2-Trichloroethane	19	0.003	5.70	J		1463987.728	597097.726
SU1-11-050	11/30/2005	1,1-Dichloroethane	10600	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	1,1-Dichloroethene	102000	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.520	710.00	J		1463987.728	597097.726
SU1-11-050	11/30/2005	1,2-Dichloroethane	7.61	0.009	5.70			1463987.728	597097.726
SU1-11-050	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	1,2-trans-Dichloroethene	4260	0.007	5.70			1463987.728	597097.726
SU1-11-050	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	2-Butanone	9300	0.011	11.00	U		1463987.728	597097.726
SU1-11-050	11/30/2005	2-Hexanone	na	0.011	11.00	U		1463987.728	597097.726
SU1-11-050	11/30/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1463987.728	597097.726

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-050	11/30/2005	Acetone	192000	0.011	11.00	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Benzene	490	0.028	5.70			1463987.728	597097.726
SU1-11-050	11/30/2005	Bromodichloromethane	481	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Bromoform	3770	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Carbon Disulfide	1160	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Chlorobenzene	489	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Chloroethane	160	0.011	11.00	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Dibromochloromethane	355	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.036	11.00			1463987.728	597097.726
SU1-11-050	11/30/2005	Ethylbenzene	0.48	0.031	5.70			1463987.728	597097.726
SU1-11-050	11/30/2005	mp-Xylene	na	0.054	5.70			1463987.728	597097.726
SU1-11-050	11/30/2005	o-Xylene	426000	0.025	5.70			1463987.728	597097.726
SU1-11-050	11/30/2005	Styrene	14500	0.006	5.70	U		1463987.728	597097.726
SU1-11-050	11/30/2005	Tetrachloroethene (PCE)	2130	7.200	710.00			1463987.728	597097.726
SU1-11-050	11/30/2005	Toluene	250	84.000	5700.00			1463987.728	597097.726
SU1-11-050	11/30/2005	Trichloroethylene (TCE)	na	80.000	5700.00			1463987.728	597097.726
SU1-11-050	11/30/2005	Trichloromethane (Cholorform)	1500	0.970	710.00			1463987.728	597097.726
SU1-11-050	11/30/2005	Vinyl Chloride	4.14	0.011	11.00	U		1463987.728	597097.726
SU1-11-051	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.690	690.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,2-Dichloroethane	7.61	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,2-trans-Dichloroethene	4260	0.002	5.50	J		1464002.728	597097.726
SU1-11-051	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	2-Butanone	9300	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	2-Hexanone	na	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Acetone	192000	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Benzene	490	0.003	5.50	J		1464002.728	597097.726
SU1-11-051	11/30/2005	Bromodichloromethane	481	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Bromoform	3770	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Carbon Disulfide	1160	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Chlorobenzene	489	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Chloroethane	160	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Dibromochloromethane	355	0.006	5.50	U		1464002.728	597097.726

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-051	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.004	11.00	J		1464002.728	597097.726
SU1-11-051	11/30/2005	Ethylbenzene	0.48	0.006	5.50			1464002.728	597097.726
SU1-11-051	11/30/2005	mp-Xylene	na	0.004	5.50	J		1464002.728	597097.726
SU1-11-051	11/30/2005	o-Xylene	426000	0.012	5.50			1464002.728	597097.726
SU1-11-051	11/30/2005	Styrene	14500	0.006	5.50	U		1464002.728	597097.726
SU1-11-051	11/30/2005	Tetrachloroethene (PCE)	2130	0.083	5.50			1464002.728	597097.726
SU1-11-051	11/30/2005	Toluene	250	3.000	690.00			1464002.728	597097.726
SU1-11-051	11/30/2005	Trichloroethylene (TCE)	na	9.000	690.00			1464002.728	597097.726
SU1-11-051	11/30/2005	Trichloromethane (Cholorform)	1500	0.600	690.00	J		1464002.728	597097.726
SU1-11-051	11/30/2005	Vinyl Chloride	4.14	0.011	11.00	U		1464002.728	597097.726
SU1-11-052	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,1-Dichloroethane	10600	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,1-Dichloroethene	102000	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.013	5.70			1464017.728	597097.726
SU1-11-052	11/30/2005	1,2-Dichloroethane	7.61	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,2-trans-Dichloroethene	4260	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	2-Butanone	9300	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	2-Hexanone	na	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Acetone	192000	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Benzene	490	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Bromodichloromethane	481	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Bromoform	3770	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Bromomethane	12.6	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Carbon Disulfide	1160	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Chlorobenzene	489	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Chloroethane	160	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Chloromethane	27.1	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Dibromochloromethane	355	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Ethylbenzene	0.48	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	mp-Xylene	na	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	o-Xylene	426000	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Styrene	14500	0.006	5.70	U		1464017.728	597097.726
SU1-11-052	11/30/2005	Tetrachloroethene (PCE)	2130	0.005	5.70	J		1464017.728	597097.726
SU1-11-052	11/30/2005	Toluene	250	0.080	5.70			1464017.728	597097.726
SU1-11-052	11/30/2005	Trichloroethylene (TCE)	na	0.800	57.00			1464017.728	597097.726
SU1-11-052	11/30/2005	Trichloromethane (Cholorform)	1500	0.028	5.70			1464017.728	597097.726
SU1-11-052	11/30/2005	Vinyl Chloride	4.14	0.011	11.00	U		1464017.728	597097.726
SU1-11-053	11/29/2005	1,1,1-Trichloroethane	3310.00	0.008	7.50	U		1463965.228	597110.716

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-053	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,1,2-Trichloroethane	19	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,1-Dichloroethane	10600	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,1-Dichloroethene	102000	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.140	7.50			1463965.228	597110.716
SU1-11-053	11/29/2005	1,2-Dichloroethane	7.61	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,2-Dichloropropane	21.6	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,2-trans-Dichloroethene	4260	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,3-cis-Dichloropropene	na	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	1,3-trans-Dichloropropene	na	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	2-Butanone	9300	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	2-Hexanone	na	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	4-Methyl-2-pentanone	na	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Acetone	192000	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Benzene	490	0.002	7.50	J		1463965.228	597110.716
SU1-11-053	11/29/2005	Bromodichloromethane	481	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Bromoform	3770	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Bromomethane	12.6	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Carbon Disulfide	1160	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Carbon Tetrachloride	5.38	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Chlorobenzene	489	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Chloroethane	160	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Chloromethane	27.1	0.015	15.00	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Dibromochloromethane	355	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.006	15.00	J		1463965.228	597110.716
SU1-11-053	11/29/2005	Ethylbenzene	0.48	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	mp-Xylene	na	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	o-Xylene	426000	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Styrene	14500	0.008	7.50	U		1463965.228	597110.716
SU1-11-053	11/29/2005	Tetrachloroethene (PCE)	2130	0.008	7.50			1463965.228	597110.716
SU1-11-053	11/29/2005	Toluene	250	1.200	75.00			1463965.228	597110.716
SU1-11-053	11/29/2005	Trichloroethylene (TCE)	na	3.600	75.00	E		1463965.228	597110.716
SU1-11-053	11/29/2005	Trichloromethane (Cholorform)	1500	0.120	7.50			1463965.228	597110.716
SU1-11-053	11/29/2005	Vinyl Chloride	4.14	0.015	15.00	U		1463965.228	597110.716
SU1-11-054	12/01/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	1,1,2-Trichloroethane	19	0.002	5.50	J		1463980.228	597110.716
SU1-11-054	12/01/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	1,2-cis-Dichloroethene (DCE)	2130	0.350	690.00	J		1463980.228	597110.716
SU1-11-054	12/01/2005	1,2-Dichloroethane	7.61	0.008	5.50			1463980.228	597110.716
SU1-11-054	12/01/2005	1,2-Dichloropropane	21.6	0.004	5.50	J		1463980.228	597110.716
SU1-11-054	12/01/2005	1,2-trans-Dichloroethene	4260	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	2-Butanone	9300	0.011	11.00	U		1463980.228	597110.716

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-054	12/01/2005	2-Hexanone	na	0.011	11.00	U		1463980.228	597110.716
SU1-11-054	12/01/2005	4-Methyl-2-pentanone	na	0.034	11.00			1463980.228	597110.716
SU1-11-054	12/01/2005	Acetone	192000	0.038	11.00			1463980.228	597110.716
SU1-11-054	12/01/2005	Benzene	490	0.022	5.50			1463980.228	597110.716
SU1-11-054	12/01/2005	Bromodichloromethane	481	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Bromoform	3770	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Bromomethane	12.6	0.011	11.00	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Carbon Disulfide	1160	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Chlorobenzene	489	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Chloroethane	160	0.011	11.00	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Chloromethane	27.1	0.011	11.00	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Dibromochloromethane	355	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Dichloromethane (Methylene Chloride)	203	0.028	11.00			1463980.228	597110.716
SU1-11-054	12/01/2005	Ethylbenzene	0.48	0.024	5.50			1463980.228	597110.716
SU1-11-054	12/01/2005	mp-Xylene	na	0.062	5.50			1463980.228	597110.716
SU1-11-054	12/01/2005	o-Xylene	426000	0.028	5.50			1463980.228	597110.716
SU1-11-054	12/01/2005	Styrene	14500	0.006	5.50	U		1463980.228	597110.716
SU1-11-054	12/01/2005	Tetrachloroethene (PCE)	2130	4.000	690.00			1463980.228	597110.716
SU1-11-054	12/01/2005	Toluene	250	17.000	690.00			1463980.228	597110.716
SU1-11-054	12/01/2005	Trichloroethylene (TCE)	na	28.000	690.00	E		1463980.228	597110.716
SU1-11-054	12/01/2005	Trichloromethane (Cholorform)	1500	0.490	690.00	J		1463980.228	597110.716
SU1-11-054	12/01/2005	Vinyl Chloride	4.14	0.011	11.00	U		1463980.228	597110.716
SU1-11-055	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,1-Dichloroethane	10600	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,1-Dichloroethene	102000	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.039	5.80			1463995.228	597110.716
SU1-11-055	11/30/2005	1,2-Dichloroethane	7.61	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,2-trans-Dichloroethene	4260	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	2-Butanone	9300	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	2-Hexanone	na	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	4-Methyl-2-pentanone	na	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Acetone	192000	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Benzene	490	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Bromodichloromethane	481	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Bromoform	3770	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Bromomethane	12.6	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Carbon Disulfide	1160	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Chlorobenzene	489	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Chloroethane	160	0.012	12.00	U		1463995.228	597110.716

11/4/2014

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-055	11/30/2005	Chloromethane	27.1	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Dibromochloromethane	355	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.012	12.00	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Ethylbenzene	0.48	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	mp-Xylene	na	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	o-Xylene	426000	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Styrene	14500	0.006	5.80	U		1463995.228	597110.716
SU1-11-055	11/30/2005	Tetrachloroethene (PCE)	2130	0.004	5.80	J		1463995.228	597110.716
SU1-11-055	11/30/2005	Toluene	250	0.057	5.80			1463995.228	597110.716
SU1-11-055	11/30/2005	Trichloroethylene (TCE)	na	0.440	58.00			1463995.228	597110.716
SU1-11-055	11/30/2005	Trichloromethane (Cholorform)	1500	0.050	5.80			1463995.228	597110.716
SU1-11-055	11/30/2005	Vinyl Chloride	4.14	0.012	12.00	U		1463995.228	597110.716
SU1-11-056	11/30/2005	1,1,1-Trichloroethane	3310.00	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,1,2-Trichloroethane	19	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,1-Dichloroethane	10600	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,1-Dichloroethene	102000	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,2-cis-Dichloroethene (DCE)	2130	0.017	5.90			1464010.228	597110.716
SU1-11-056	11/30/2005	1,2-Dichloroethane	7.61	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,2-Dichloropropane	21.6	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,2-trans-Dichloroethene	4260	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,3-cis-Dichloropropene	na	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	1,3-trans-Dichloropropene	na	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	2-Butanone	9300	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	2-Hexanone	na	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	4-Methyl-2-pentanone	na	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Acetone	192000	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Benzene	490	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Bromodichloromethane	481	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Bromoform	3770	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Bromomethane	12.6	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Carbon Disulfide	1160	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Carbon Tetrachloride	5.38	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Chlorobenzene	489	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Chloroethane	160	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Chloromethane	27.1	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Dibromochloromethane	355	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Dichloromethane (Methylene Chloride)	203	0.012	12.00	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Ethylbenzene	0.48	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	mp-Xylene	na	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	o-Xylene	426000	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Styrene	14500	0.006	5.90	U		1464010.228	597110.716
SU1-11-056	11/30/2005	Tetrachloroethene (PCE)	2130	0.004	5.90	J		1464010.228	597110.716
SU1-11-056	11/30/2005	Toluene	250	0.180	5.90			1464010.228	597110.716
SU1-11-056	11/30/2005	Trichloroethylene (TCE)	na	0.410	5.90	E		1464010.228	597110.716
SU1-11-056	11/30/2005	Trichloromethane (Cholorform)	1500	0.015	5.90			1464010.228	597110.716

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-056	11/30/2005	Vinyl Chloride	4.14	0.012	12.00	U		1464010.228	597110.716
SU1-11-057	12/01/2005	1,1,1-Trichloroethane	3310.00	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,1,2-Trichloroethane	19	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,1-Dichloroethane	10600	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,1-Dichloroethene	102000	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,2-cis-Dichloroethene (DCE)	2130	0.005	5.70	J		1464025.228	597110.716
SU1-11-057	12/01/2005	1,2-Dichloroethane	7.61	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,2-Dichloropropane	21.6	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,2-trans-Dichloroethene	4260	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,3-cis-Dichloropropene	na	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	1,3-trans-Dichloropropene	na	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	2-Butanone	9300	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	2-Hexanone	na	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Acetone	192000	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Benzene	490	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Bromodichloromethane	481	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Bromoform	3770	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Bromomethane	12.6	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Carbon Disulfide	1160	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Carbon Tetrachloride	5.38	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Chlorobenzene	489	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Chloroethane	160	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Chloromethane	27.1	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Dibromochloromethane	355	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Ethylbenzene	0.48	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	mp-Xylene	na	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	o-Xylene	426000	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Styrene	14500	0.006	5.70	U		1464025.228	597110.716
SU1-11-057	12/01/2005	Tetrachloroethene (PCE)	2130	0.003	5.70	J		1464025.228	597110.716
SU1-11-057	12/01/2005	Toluene	250	0.110	5.70			1464025.228	597110.716
SU1-11-057	12/01/2005	Trichloroethylene (TCE)	na	0.240	5.70	E		1464025.228	597110.716
SU1-11-057	12/01/2005	Trichloromethane (Cholorform)	1500	0.010	5.70			1464025.228	597110.716
SU1-11-057	12/01/2005	Vinyl Chloride	4.14	0.011	11.00	U		1464025.228	597110.716
SU1-11-058	11/29/2005	1,1,1-Trichloroethane	3310.00	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,1,2-Trichloroethane	19	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,1-Dichloroethane	10600	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,1-Dichloroethene	102000	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,2-Dichloroethane	7.61	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,2-Dichloropropane	21.6	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,2-trans-Dichloroethene	4260	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	1,3-cis-Dichloropropene	na	0.008	7.60	U		1463957.728	597123.706

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Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-058	11/29/2005	1,3-trans-Dichloropropene	na	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	2-Butanone	9300	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	2-Hexanone	na	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	4-Methyl-2-pentanone	na	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Acetone	192000	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Benzene	490	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Bromodichloromethane	481	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Bromoform	3770	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Bromomethane	12.6	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Carbon Disulfide	1160	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Carbon Tetrachloride	5.38	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Chlorobenzene	489	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Chloroethane	160	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Chloromethane	27.1	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Dibromochloromethane	355	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.015	15.00	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Ethylbenzene	0.48	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	mp-Xylene	na	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	o-Xylene	426000	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Styrene	14500	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Tetrachloroethene (PCE)	2130	0.056	7.60			1463957.728	597123.706
SU1-11-058	11/29/2005	Toluene	250	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Trichloroethylene (TCE)	na	0.041	7.60			1463957.728	597123.706
SU1-11-058	11/29/2005	Trichloromethane (Cholorform)	1500	0.008	7.60	U		1463957.728	597123.706
SU1-11-058	11/29/2005	Vinyl Chloride	4.14	0.015	15.00	U		1463957.728	597123.706
SU1-11-059	11/29/2005	1,1,1-Trichloroethane	3310.00	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,1,2,2-Tetrachloroethane	8.88	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,1,2-Trichloroethane	19	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,1-Dichloroethane	10600	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,1-Dichloroethene	102000	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,2-cis-Dichloroethene (DCE)	2130	0.041	7.30			1463972.728	597123.706
SU1-11-059	11/29/2005	1,2-Dichloroethane	7.61	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,2-Dichloropropane	21.6	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,2-trans-Dichloroethene	4260	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,3-cis-Dichloropropene	na	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	1,3-trans-Dichloropropene	na	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	2-Butanone	9300	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	2-Hexanone	na	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	4-Methyl-2-pentanone	na	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Acetone	192000	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Benzene	490	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Bromodichloromethane	481	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Bromoform	3770	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Bromomethane	12.6	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Carbon Disulfide	1160	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Carbon Tetrachloride	5.38	0.007	7.30	U		1463972.728	597123.706

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-059	11/29/2005	Chlorobenzene	489	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Chloroethane	160	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Chloromethane	27.1	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Dibromochloromethane	355	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Dichloromethane (Methylene Chloride)	203	0.015	15.00	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Ethylbenzene	0.48	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	mp-Xylene	na	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	o-Xylene	426000	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Styrene	14500	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Tetrachloroethene (PCE)	2130	0.150	7.30			1463972.728	597123.706
SU1-11-059	11/29/2005	Toluene	250	0.007	7.30	U		1463972.728	597123.706
SU1-11-059	11/29/2005	Trichloroethylene (TCE)	na	2.300	73.00			1463972.728	597123.706
SU1-11-059	11/29/2005	Trichloromethane (Cholorform)	1500	0.022	7.30			1463972.728	597123.706
SU1-11-059	11/29/2005	Vinyl Chloride	4.14	0.015	15.00	U		1463972.728	597123.706
SU1-11-060	12/01/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,1,2-Trichloroethane	19	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,2-cis-Dichloroethene (DCE)	2130	0.007	5.50			1463987.728	597123.706
SU1-11-060	12/01/2005	1,2-Dichloroethane	7.61	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,2-Dichloropropane	21.6	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,2-trans-Dichloroethene	4260	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	2-Butanone	9300	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	2-Hexanone	na	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Acetone	192000	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Benzene	490	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Bromodichloromethane	481	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Bromoform	3770	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Bromomethane	12.6	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Carbon Disulfide	1160	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Chlorobenzene	489	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Chloroethane	160	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Chloromethane	27.1	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Dibromochloromethane	355	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Ethylbenzene	0.48	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	mp-Xylene	na	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	o-Xylene	426000	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Styrene	14500	0.006	5.50	U		1463987.728	597123.706
SU1-11-060	12/01/2005	Tetrachloroethene (PCE)	2130	0.003	5.50	J		1463987.728	597123.706
SU1-11-060	12/01/2005	Toluene	250	0.098	5.50			1463987.728	597123.706

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-060	12/01/2005	Trichloroethylene (TCE)	na	0.170	5.50			1463987.728	597123.706
SU1-11-060	12/01/2005	Trichloromethane (Cholorform)	1500	0.008	5.50			1463987.728	597123.706
SU1-11-060	12/01/2005	Vinyl Chloride	4.14	0.011	11.00	U		1463987.728	597123.706
SU1-11-061	12/01/2005	1,1,1-Trichloroethane	3310.00	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,1,2,2-Tetrachloroethane	8.88	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,1,2-Trichloroethane	19	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,1-Dichloroethane	10600	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,1-Dichloroethene	102000	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,2-cis-Dichloroethene (DCE)	2130	0.018	5.50			1464002.728	597123.706
SU1-11-061	12/01/2005	1,2-Dichloroethane	7.61	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,2-Dichloropropane	21.6	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,2-trans-Dichloroethene	4260	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,3-cis-Dichloropropene	na	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	1,3-trans-Dichloropropene	na	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	2-Butanone	9300	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	2-Hexanone	na	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	4-Methyl-2-pentanone	na	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Acetone	192000	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Benzene	490	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Bromodichloromethane	481	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Bromoform	3770	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Bromomethane	12.6	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Carbon Disulfide	1160	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Carbon Tetrachloride	5.38	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Chlorobenzene	489	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Chloroethane	160	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Chloromethane	27.1	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Dibromochloromethane	355	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Dichloromethane (Methylene Chloride)	203	0.011	11.00	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Ethylbenzene	0.48	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	mp-Xylene	na	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	o-Xylene	426000	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Styrene	14500	0.006	5.50	U		1464002.728	597123.706
SU1-11-061	12/01/2005	Tetrachloroethene (PCE)	2130	0.003	5.50	J		1464002.728	597123.706
SU1-11-061	12/01/2005	Toluene	250	0.170	5.50			1464002.728	597123.706
SU1-11-061	12/01/2005	Trichloroethylene (TCE)	na	0.130	27.00			1464002.728	597123.706
SU1-11-061	12/01/2005	Trichloromethane (Cholorform)	1500	0.021	5.50			1464002.728	597123.706
SU1-11-061	12/01/2005	Vinyl Chloride	4.14	0.011	11.00	U		1464002.728	597123.706
SU1-11-074	12/01/2005	Aluminum	232000	5200.000	24.20	N		1463995.867	597071.419
SU1-11-074	12/01/2005	Antimony	85.2	1.200	1.20	UN		1463995.867	597071.419
SU1-11-074	12/01/2005	Arsenic	72.5	4.700	1.20			1463995.867	597071.419
SU1-11-074	12/01/2005	Barium	15100	28.800	24.20			1463995.867	597071.419
SU1-11-074	12/01/2005	Beryllium	422	0.360	0.61	B		1463995.867	597071.419
SU1-11-074	12/01/2005	Cadmium	215	0.610	0.61	U		1463995.867	597071.419
SU1-11-074	12/01/2005	Calcium	na	103000.000	3030.00	N		1463995.867	597071.419
SU1-11-074	12/01/2005	Chromium	319000	7.100	1.20			1463995.867	597071.419

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord
SU1-11-074	12/01/2005	Cobalt	12800	4.900	6.10	B		1463995.867	597071.419
SU1-11-074	12/01/2005	Copper	8540	12.400	3.00			1463995.867	597071.419
SU1-11-074	12/01/2005	Iron	na	11500.000	12.10	N		1463995.867	597071.419
SU1-11-074	12/01/2005	Lead	na	5.700	0.36			1463995.867	597071.419
SU1-11-074	12/01/2005	Magnesium	na	44900.000	3030.00	N		1463995.867	597071.419
SU1-11-074	12/01/2005	Manganese	24200	236.000	1.80	NE		1463995.867	597071.419
SU1-11-074	12/01/2005	Mercury	63.9	0.024	0.04	BN		1463995.867	597071.419
SU1-11-074	12/01/2005	Molybdenum	1090	2.600	4.80	B		1463995.867	597071.419
SU1-11-074	12/01/2005	Nickel	4290	13.200	4.80			1463995.867	597071.419
SU1-11-074	12/01/2005	Potassium	na	1540.000	606.00			1463995.867	597071.419
SU1-11-074	12/01/2005	Selenium	1060	0.610	0.61	U		1463995.867	597071.419
SU1-11-074	12/01/2005	Silver	1070	1.200	1.20	U		1463995.867	597071.419
SU1-11-074	12/01/2005	Sodium	na	153.000	606.00	B		1463995.867	597071.419
SU1-11-074	12/01/2005	Thallium	17.5	1.200	1.20	U		1463995.867	597071.419
SU1-11-074	12/01/2005	Vanadium	1520	12.300	2.40			1463995.867	597071.419
SU1-11-074	12/01/2005	Zinc	64000	36.600	2.40			1463995.867	597071.419
SU1-11-53M	01/12/2006	Aluminum	232000	10800.000	26.40	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Antimony	85.2	1.300	1.30	UN		1463960.228	597110.716
SU1-11-53M	01/12/2006	Arsenic	72.5	8.700	1.30			1463960.228	597110.716
SU1-11-53M	01/12/2006	Barium	15100	103.000	26.40			1463960.228	597110.716
SU1-11-53M	01/12/2006	Beryllium	422	0.570	0.66	B		1463960.228	597110.716
SU1-11-53M	01/12/2006	Cadmium	215	0.660	0.66	U		1463960.228	597110.716
SU1-11-53M	01/12/2006	Calcium	na	30700.000	3300.00	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Chromium	319000	17.000	1.30	E		1463960.228	597110.716
SU1-11-53M	01/12/2006	Cobalt	12800	8.100	6.60			1463960.228	597110.716
SU1-11-53M	01/12/2006	Copper	8540	72.300	3.30	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Iron	na	18900.000	13.20	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Lead	na	28.200	0.66			1463960.228	597110.716
SU1-11-53M	01/12/2006	Magnesium	na	15000.000	3300.00	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Manganese	24200	524.000	2.00	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Mercury	63.9	10.400	2.20	N		1463960.228	597110.716
SU1-11-53M	01/12/2006	Molybdenum	1090	1.900	5.30	B		1463960.228	597110.716
SU1-11-53M	01/12/2006	Nickel	4290	23.400	5.30			1463960.228	597110.716
SU1-11-53M	01/12/2006	Potassium	na	1270.000	659.00			1463960.228	597110.716
SU1-11-53M	01/12/2006	Selenium	1060	0.660	0.66	U		1463960.228	597110.716
SU1-11-53M	01/12/2006	Silver	1070	1.300	1.30	U		1463960.228	597110.716
SU1-11-53M	01/12/2006	Sodium	na	149.000	659.00	B		1463960.228	597110.716
SU1-11-53M	01/12/2006	Thallium	17.5	1.200	1.30	B		1463960.228	597110.716
SU1-11-53M	01/12/2006	Vanadium	1520	26.900	2.60			1463960.228	597110.716
SU1-11-53M	01/12/2006	Zinc	64000	267.000	2.60	N		1463960.228	597110.716

N: spike recovery not within QC limits
U: not detetced
B: result was > instrument detection limit but below reporting limit
J: estimate
E: estimated due to interference
CO: cleanup objective

14/2001

Table 5: As-Left Offsite VOC and Metals Data (mg/kg)

Location	Date	Analyte	CO	Result	Detection Limit	Lab Qual	Data Qual	X Coord	Y Coord

qual: qualifier na: not available
VOC: volatile organic compound

A100L/71

APPENDIX C

POST-EX SUD EXCERPT

A104/171

Additional Information

Radium-224 (Ra-224) was added as a Contaminant of Concern (COC), as a conservative approach, during the development of the Post-Excavation Survey Unit Design (SUD). This action was taken due to that isotope being reported on two Remedial Action Support Survey (RASS) samples. Subsequently, during the development of the On Scene Coordinator Report and Data Report it was determined that Ra-224 is a daughter product 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 Ra-224 exceedances are not considered significant because the CO for the parent nuclide (Th-232) accounts for the daughter product presence. A Cleanup Objective (CO) of 2.6 pCi/g and Hot Spot (HS) criteria of 4.8 pCi/g were developed for Ra-224, for the Data Report, based upon the most conservative 10^{-5} Risk Based Guideline Value (for Construction Worker or Site Employee scenario) plus background and inclusive of daughter products.

Survey Unit Design (SUD)

Project: **PRS 11**

Review & Approval

Project Engineer: Mark Spivey _____

Reviewer: James Fontaine _____

Reviewer: _____

Document	Title
Fact Sheet	PRS 11: Thorium and Polonium – Contaminated Waste Area, Final, March 2005
AM EE/CA CRA	Action Memorandum Engineering Evaluation/Cost Analysis Contingent Removal Action for Contaminated Soil, Final, June 2002
WP	PRS 11 Work Plan, Final, February 2005, ER/ST-04-011
VSAP	Standard Verification Sampling & Analysis Plan, Final, August 2004

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

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

SUD Worksheet

Changes if any, from Pre-Ex SUD: **Acronyms**

Ac	Actinium
AM	Action Memorandum
Bi	Bismuth
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
Pa	Protactinium
Pb	Lead
pCi/g	Pico-Curie(s) per gram
PRS	Potential Release Site
Pu	Plutonium
QA/QC	Quality Assurance/Quality Control
Ra	Radium
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
VOC	Volatile Organic Compound
VSAP	Verification Sampling and Analysis Plan
VSP	Visual Sample Plan
WP	Work Package/Work Plan

A103/C11

Item 1

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

PRS 11, also known as Area 2 and the Crushed Drum Area, is located in the southwest portion of the site (within the boundary of CERCLA OU-1). Approximately 2,500 empty drums were crushed in place and covered with soil. These drums had previously contained thorium process materials used for thorium projects in the 1960s. Thorium-232 was found during installation of drainage features and wells in support of the OU-1 ROD remedy and subsequent augmentations. This location (along the southern side to the east) also contains buried wood ash and debris from a fire that had consumed the polonium-contaminated flooring from the Dayton units (Area 13). Since Polonium-210 has a half-life of 138 days, it is no longer detectable. However, Lead-210 (half-life of 22-years) was used in one of the processes to produce the Polonium-210 and therefore identified as a contaminant of concern (COC) to account for potential presence of contamination resulting from Dayton Unit debris.

The Removal Action associated with this SUD addressed identified contamination areas with a single COC **above the cleanup objective (CO)**. Detailed task-by-task work instructions for work and health and safety are addressed in the Work Package (Detailed Work Instructions) and its associated HASP.

Changes if any, from Pre-Ex SUD:

During excavation activities, a discrete area of Pu-238 contamination was encountered in the southeast portion of the excavation in the area of the historic burial trench. In addition, this area contained what appeared to be general trash, lab trash including a number of clear and amber glass bottles (which some were intact with lids), and a lead acid battery. The contents of the intact bottles were analyzed and found to not be pure product but rather Volatile Organic Compound (VOC) contaminated liquids. Additional intact bottles were also discovered toward the central portion of the excavation with the contents results being the same as previously mentioned.

Based upon observations of the exhumed debris, it is possible that the area in which the Dayton Unit Debris was disposed of extends west and north further than depicted by historical documentation. Also, in the north central area of the excavation mercury was encountered. It appeared that a cardboard case of eight 1-liter plastic bottles had been buried and the containers breached shortly after burial (based upon the mercury contamination pattern and depth of contamination). Additionally, three 1-liter plastic bottles containing mercury were discovered intact and had been buried in close proximity (within 10 to 20 feet) to the aforementioned case of bottles.

Additionally, whole (not crushed but punctured) or lidless stainless steel drums and rectangular stainless steel boxes with legs were discovered in the east central portion of the excavation. One partially crushed drum contained what appeared to be old floor tile that contained asbestos. Plastic with grey residue was also found intermixed with the thorium drums. The grey residue has high levels of Thorium-232 associated with it and it is therefore concluded that the plastic is liner material was previously inside of the drums as a liner. Remedial Action Support Survey (RASS) samples taken during and following the excavation activities (in process samples from materials taken to the rail spur, as left samples taken as the excavation proceeded, soil staging holding areas characterization sampling) evidenced that multiple COCs need to be considered. RASS samples taken from materials taken to the rail spur (dump truck in process monitoring samples) and soil staging holding areas characterization sampling data were not used to generate the post-ex SUD other than to assist in identifying additional COCs.

Item 2

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

The depth of contamination varies from the surface, approximately 707 above mean sea level (amsl), to a maximum depth elevation of approximately 690 feet amsl. Concentrations of Thorium-232 found varied from background levels to 561.7 pCi/g. The other listed radiological COC (Lead-210) has not been found/confirmed to be above the CO.

Historic sampling in MEIMS are in Attachment A. Additional historic data obtained from installation of the OU-1 Pump-and-Treat is in Appendix I of the PRS 11 Work Package.

Changes if any, from Pre-Ex SUD:

Historic sampling data are in Appendix I Attachment A (no content changes from Pre-Excavation SUD).

The upper elevations (707 feet amsl) of thorium-232 contamination is associated with well installation locations in which an auger was used for drilling and installation of the wells which penetrated the contamination layer transporting contaminants upward and plating them on the side of the well hole. For the most part the contamination was found to not extend above 705 feet amsl. The maximum depth (elevation) that the excavation extended to was 684.6 feet amsl however the average depth (elevation) within the majority of the excavation was 689.1 feet amsl. The water table elevation during the excavation activity ranged from approximately 681 feet amsl at the maximum upper elevation in May 2005 down to approximately 677.9 feet amsl elevation in August 2005.

Contamination concentrations are heterogeneous in distribution and ranged from approximately background levels up to: 13,149 pCi/g Th-232; 7,109 pCi/g Pu-238; 680.5 pCi/g Th-230; 669.6 pCi/g Ra-226; 188.6 pCi/g Ra-224; 109.2 pCi/g Pb-210; 103.23 pCi/g U-238; 58.6 pCi/g Ac-227; and 30.14 pCi/g Pa-231. Bi-210m was not detected in any of the RASS samples.

Item 3a

RASS data collected during the RA will be used as appropriate to update the COC list in the Post-Excavation SUD.

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)
Th-232	Public Fact Sheet for PRS 11	2.1	3.5	561.7			X	
Pb-210	Public Fact Sheet for PRS 11	7.4	19.8	NA	X			
Bi-210m	Technical Review Comment	8.3	24.9	NA	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.

4/05/11

Item 3a Con

Changes if any, from Pre-Ex SUD:

COC	BASIS	CO (pCi/g)	HS (pCi/g)	MAX (pCi/g)	Offsite Analysis & Compendium Method: gamma (A-015)	Iso Pu (A-012)	Iso Th (A-012)	Iso U (A-012)
U-238+D	RASS data	2.2	4.2	103.2				X
Th-232+D	RASS data	2.1	3.5	13,149			X	
Th-230+D	RASS data	2.8	4.6	680.5			X	
Pu-238	RASS data (SU2 only)	55	165	7,109		X		
Ra-226+D	RASS data	2.9	4.7	669.6	X			
Ra-224	RASS data (SU1 only)	32.4	97.1	188.6	X			
Ac-227+D	RASS data	4.6	13.6	58.6	X			
Pa-231+D	RASS data	4.0	11.8	30.1	X			
Pb-210+D	RASS data	7.4	19.8	109.2	X			
Bi-210m	Technical Review Comment	8.3	24.9	ND	X			

ND = Not Detected (During Characterization or RASS sampling)

Item 3b

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

Changes if any, from Pre-Ex SUD:

None. Due to the unique nature of this PRS falling within Operable Unit One of a Comprehensive Environmental Response, Compensation, and Liability Act area, chemicals found during the remedial action are not considered under this SUD. This PRS only addresses radiological contaminants per the Work Package Scope, which states "removal of known radiological contamination."

Item 4	Classify Areas & provide justification	Selection	Class	Scan Coverage guidelines
	The Area is Class 1 due to it being a removal action greater than CO.	X	1	100%
	Note: Given the geometry of the SU it may not be 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. SU3 was developed based upon the contingency of finding contamination associated with the historic Dayton Unit fire debris burial trench. SU3 Pre-Ex SUD design will be used to collect RASS data during the buried drum remediation.		2	10-90%
			3	Judgmental

Changes if any, from Pre-Ex SUD:

SU3 was characterized by on site gamma spec (per Regulators agreement) from Geo Probe sampling during the removal action and all results were less than COs. Results have been previously provided electronically to the Regulators and a summary of the results is reported in Appendix II Attachment D. Three of the west most sample locations in SU3 were inaccessible at the time of sampling however, SU1 has expanded further to the east past the three previously inaccessible SU3 locations. It is therefore concluded that no further action is required with respect to SU3 and it is withdrawn from further consideration in this SUD. SU1 and SU2 remain classified as Class 1 Survey Units due to having remedial actions performed to remove known contamination.

Item 5	Subdivide areas into SUs	See Attachment B for SUs
	See Attachment A for Historic Data	This SUD consists of three SUs: SU1 is the irregularly shaped footprint of the removal area and is approximately 7,117 sq. ft. SU2 is an irregularly shaped sidewall area approximately 11,754 sq. ft. SU3 is the historical burial trench containing Dayton Unit fire debris and SU3 was developed based upon the contingency of finding contamination associated with the historic Dayton Unit fire debris burial trench. SU3 Pre-Ex SUD design will be used to collect RASS data during the buried thorium drum remediation and encompasses an area of approximately 8,282 sq. ft. There has been no data collected to date to suggest that SU3 has Pb-210 or Bi-210m contamination present. The work/loading area will be added to the post-excavation SUD if it falls outside of the defined SU areas.

Item 5 Con

Changes If any, from Pre-Ex SUD:

See Appendix I Attachment A for Historic Data (no content changes from Pre-Excavation SUD).

See Appendix II Attachment B for SUs.

This Post-Excavation SUD consists of two SUs: SU1 is the irregularly shaped main excavation area, footprint and sides that are not adjacent to the landfill and covered with tarps, and has an area of approximately 11,659 sq. ft. (1,083 sq. meters). SU2 is defined in the area in which the Pu-238 contamination was removed and has an area of approximately 592 sq. ft. (55 sq. meters). SU3 was removed from further consideration, see Change section of Item 4 of this Post-Ex SUD. SU1 will have on-site gamma spec data assessed for Pu-238 and shall have a Pu-238 MDA equal to or less than 20 pCi/g.

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 = 9 samples based upon the existing data.

SU1 Scanning MDC (Area Factor) corrected = NA, Th-232 Scan MDC = 1.0 and CO=2.1

SU2 Scanning MDC (Area Factor) corrected = NA, Th-232 Scan MDC = 1.0 and CO=2.1

SU3 Scanning MDC (Area Factor) corrected = NA (Sampling at depth)

Visual Sample Plan (VSP) triangular grid:

SU1 Calculated = 9, Selected Samples (on Map) = 9

SU2 Calculated = 9, Selected Samples (on Map) = 13 (4 bias samples)

SU3 Calculated = 43 (15' triangular grid), Selected Samples (on Map) = 47 (4 bias samples) Note: 40 samples provides a 100% probability of hitting a hot spot with a 10 foot semi-major axis with a 0.8 elliptical shape

Sample locations were selected by VSP with sampling goal of compare average to a fixed threshold, data not normally distributed (nonparametric), systematic triangular grid with a random starting point, and Sign Test – MARSSIM version. Sample locations will be surveyed.

A total of 22 Final Status Survey (FSS) samples are anticipated to be required (SU1=9 and SU2=13 (4 bias samples)).

Note: Due to safety concerns of placing an individual in some areas of the excavation, some FSS sampling may 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.

A108/21

Item 6a Con	**Changes if any, from Pre-Ex SUD:** SU3 removed from further consideration. 1. Calculate the (s) for each COC listed above: See Appendix II Attachment B. 2. Number of Samples (N): See Appendix II Attachment B. Spreadsheet Calculated = 8 samples based upon simulated "As Left" data from R/SW. SU1 Scanning MDC (Area Factor) corrected = 400, Default 15-foot Triangular Grid to be used SU2 Scanning MDC (Area Factor) corrected = 20, Default 15-footTriangular Grid to be used Visual Sample Plan (VSP): SU1 Calculated = 60, Selected Samples (on Map) = 62, based on a 15' triangular grid SU2 Calculated = 4, Selected Samples (on Map) = 6, 3 sample locations based on a 15' triangular grid plus 3 randomly selected sample locations, also Section 3.5.1, Special Considerations for Small Survey Units, of the Standard VSAP applies to the SU Sample locations will be surveyed and are provided in Appendix II Attachment B. **A total of 68 Final Status Survey (FSS) samples** are anticipated to be required (SU1=62 and SU2=6).
Item 6b	Calculations/Chem, Std dev, Number of Samples NA
	Changes if any, from Pre-Ex SUD: Chemicals are not a consideration for this PRS. Refer to Item 3b Changes section.
Item 7	Grid spacing SU1 and SU2: 22.7 feet high by 26.2 feet long SU3: 15 foot triangular From Attachment B.
	Changes if any, from Pre-Ex SUD: SU1 and SU2 shall have a 15-foot triangular grid based upon a review of the scanning MDCs for the COCs. Refer to Appendix II Attachment B. SU3 has been removed from further consideration.

A109/71

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

Changes if any, from Pre-Ex SUD:

No Changes

11/01/11

Item 9	Bias/judgement samples (Additional regulator bias samples may be collected but are not currently planned.)	SU1: Zero (0) bias samples are planned by CH2M Hill at this time. SU2: Four (4) bias samples are planned by CH2M Hill at this time. SU3: Four (4) bias samples are planned by CH2M Hill at this time.

Changes if any, from Pre-Ex SUD:

SU1: Zero (0) bias samples are planned by CH2M Hill at this time.

SU2: Zero (0) bias samples are planned by CH2M Hill at this time.

SU3: Removed from further consideration.

Item 10

Not otherwise covered.../ comments

Site policy requires performance and evaluation of onsite long count gamma spec analysis prior to offsite shipment.

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 atop the excavation, where excavated sediment/material was loaded into haulers, and are not hard surfaces (e.g., concrete and asphalt) are assumed included within the SUs. Should actual conditions vary from the assumption, changes will be made and reflected in the Post-Excavation SUD submission. Potentially impacted work area atop the excavation, where excavated materials will be loaded into haulers, and 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.**

Accessibility for sampling is a constraining factor due to safety concerns with placing an individual in some areas of the excavation. FSS sampling of these areas may 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. 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 outside of the constraining area in accordance RadCon procedures and DOE Order 5400.5 and Mound 2000 Work Plan Appendix A Table 1.

In-process sampling events (Characterization and/or 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 will be used to determine if the FSS (verification) sampling can be conducted. RASS sampling results will be used to add or remove COCs from the Post-Excavation SUD submission.

If visible debris below COs exists on the face of the excavation, the need for additional sampling will be addressed in the Post Ex SUD.

Changes if any, from Pre-Ex SUD:

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.

During the overburden removal several piles taken to the overburden staging area, within in the Spoils Area (also known as PRS 282), exhibited elevated FIDLER readings. A summary of these events is included in Appendix II Attachment C.

Survey Unit 3, The historic burial trench that is documented to contain debris from the Dayton Unit, was Geo Probe sampled for characterization as part of the Pre-Excavation SUD and PRS 11 Work Package. No contaminants above CO were observed. The summary of results can be found in Appendix II Attachment D.

The excavation could not remove all of the contaminated materials in the area (wall) adjacent to the landfill. Appendix II Attachment E summarizes the As Left condition of the wall. The wall with remaining contamination was covered tarps per the Work Plan. A 15-foot buffer to the wall has been established within SU1. If FSS results within this buffer area are above COs then the associated sample location data will be removed from the verification data set and added to the wall As Left data set.

Per the request of the Regulators, the final round of RASS sampling, previously known as Pre-Verification Sampling, is included in Appendix II Appendix F exhibiting the excavation is ready for a Final Status Survey.

Visible debris remains in sporadic locations within the excavation walls. RadCon Technicians have surveyed the excavation and down posted the area to a Soil Contamination Area due to debris behind the tarp on the wall adjacent to the landfill.

APPENDIX D

BACKFILL PACKAGE

A113/171

STD VSAP BACKFILL INFO

This information will be represented in the Data Report.

For: PRS 11 - Thorium Drum Removal

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
- ☒ preliminary data were reviewed
  (Data Review & Validation Report will be submitted with the Data Report)
- ☒ Sign test & 95%UCL (per SU)
  (not required if all results <CO, see pg 19/21 of VSAP)
- ☒ retro curve

From: (sign/date) *Mark R. Spivey*

Mark R. Spivey

A 114/171

Backfill of PRS 11 commenced with concurrence on December 13, 2006. Refer to the following e-mail correspondences and e-mail attachment associated with the aforementioned:

E-mail from Fischer.Timothy@epamail.epa.gov on 12/8/05 at 2:47 P.M.:

Mark,

You have US EPA concurrence to backfill at PRS 11.

Thanks,
Tim

E-mail from Brian.Nickel@epa.state.oh.us on 12/8/05 at 3:59 P.M.:

Paul,

Ohio EPA does not object to CH2MHill initiating the backfill of PRS 11 considering the instability of excavation walls and OU1 extraction wells with the understanding that it is at DOE/CH2MHill's risk. As discussed today, if the verification data does not pass the statistical tests, etc. required pursuant to the Standard VSAP, CH2MHill will re-excavate and remove the contamination.

Ohio noted that there have recently been several instances where upon the receipt of the off-property verification data, additional excavation was needed due to elevated levels even though onsite data had indicated it met the clean up objectives.

We also discussed the use of a tarp or some other means to mark the dig face of the excavation. Ohio EPA was assured that the excavation was accurately surveyed and that if needed, there would be no problem exposing the current surface.

Ohio EPA also supports DOE's need to understand the backfilling approach and would request that only enough backfill be placed in the excavation to stabilize the situation.

Thank you.

Brian Nickel
OFFO

E-mail from SPIVMR@doe-md.gov to the Core Team on 12/8/2005 12:12 P.M.:

Please see the attachment for CH2M Hill Mound's intent to backfill PRS 11. This will be discussed during the meeting being held today at 1400 hours.

Mark R. Spivey
CH2M Hill Mound, Inc.
Environmental Restoration
Project Engineer/Senior Coordinator
(937) 608-8233

Based upon the On Site Gamma Spectrometry data CH2M Hill Mound is planning to initiate backfilling at risk due to the instability of the excavation walls. Figure 1 illustrates PRS 11 Final Status Survey (Verification) sample locations. On Site Gamma Spectrometry was performed on EPA dish split samples taken from these locations. The Pu-238 results are contained within Figures 2 and 3 and the Th-232 results are contained within Figures 4 and 5.

Location 37 had an elevated Th-232 value, which is within the 15-foot buffer area however; the elevated value precluded obtaining a Pu-238 MDA less than 20 pCi/g. This is being remedied by off site Iso-Pu being performed on this sample.

In addition, location 66 has an elevated Th-232 value and an elevated Pu-238 value (below CO) that precluded obtaining a Pu-238 MDA less than 20 pCi/g. This is also being remedied by off site Iso-Pu being performed.

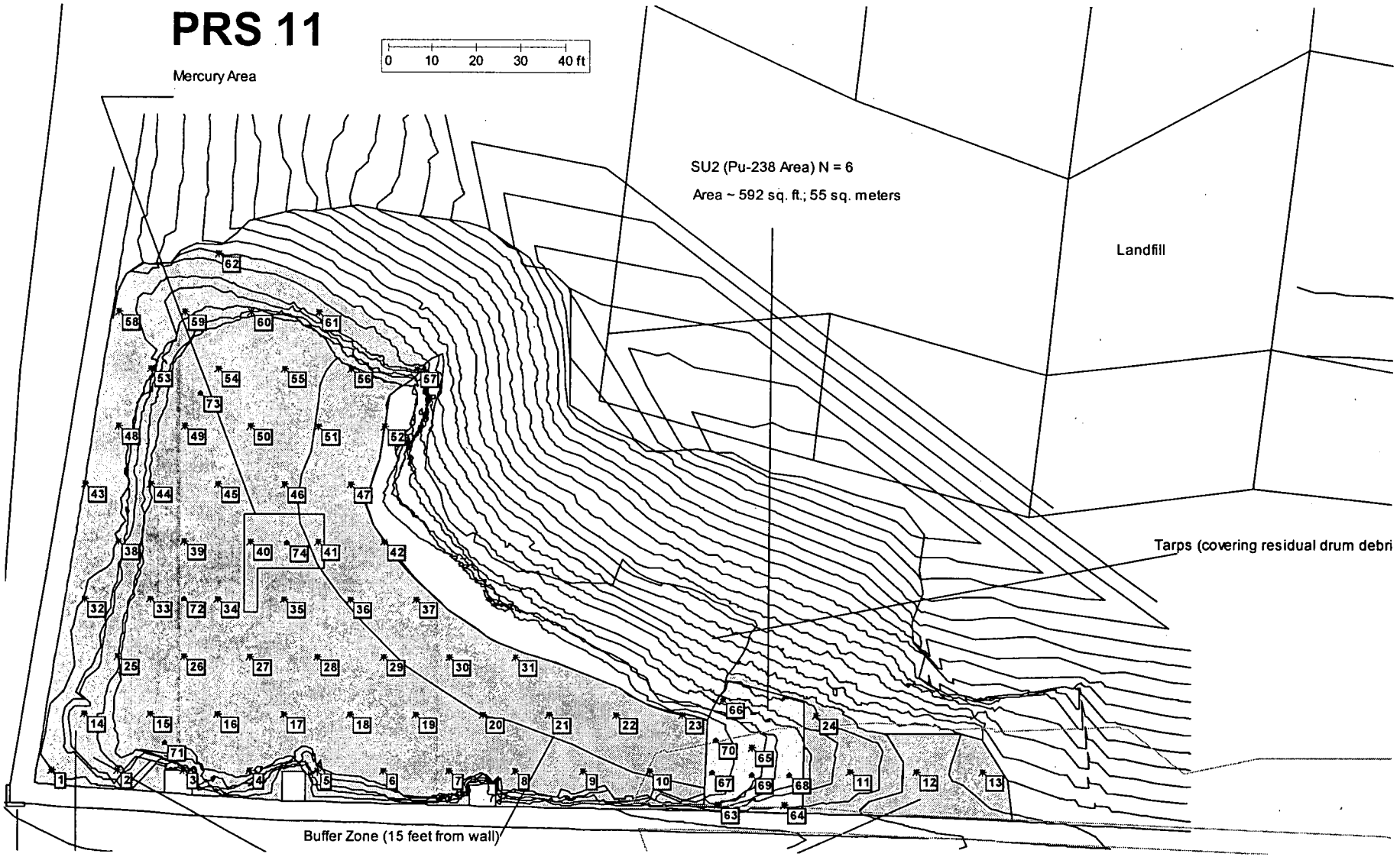

Figure 1

A 117/121

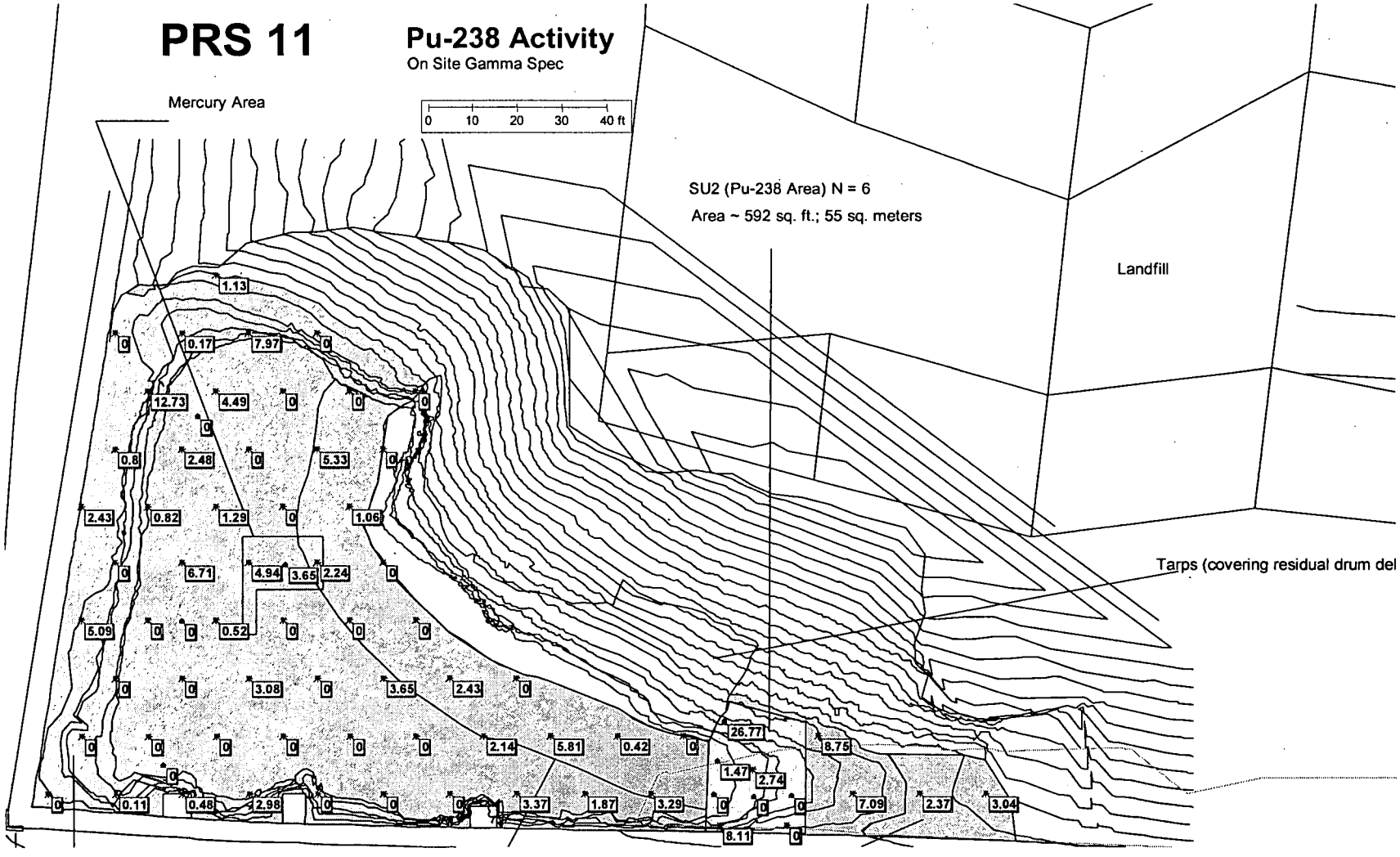

Figure 2

1-7/8/14

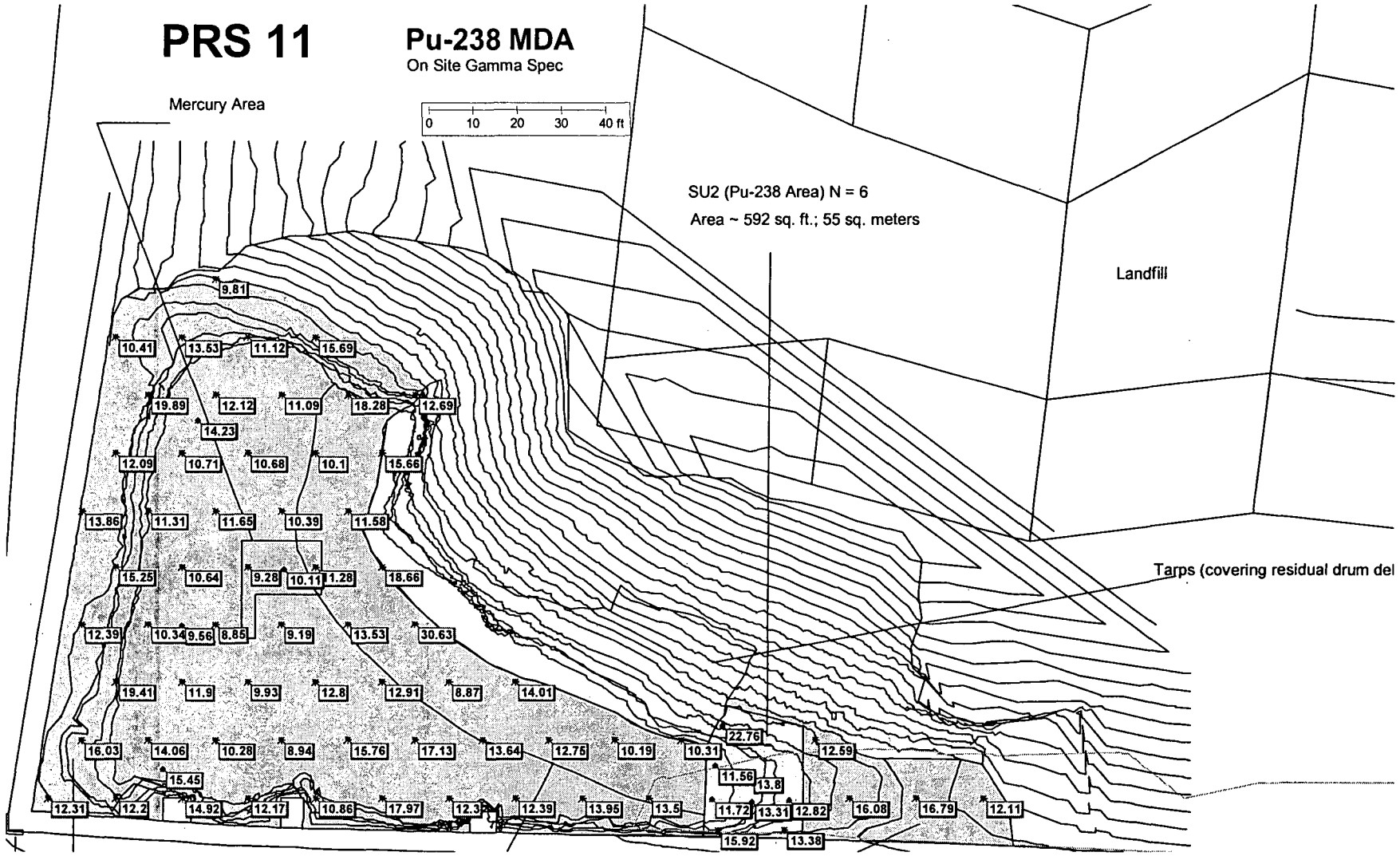

Figure 3

4 of 11

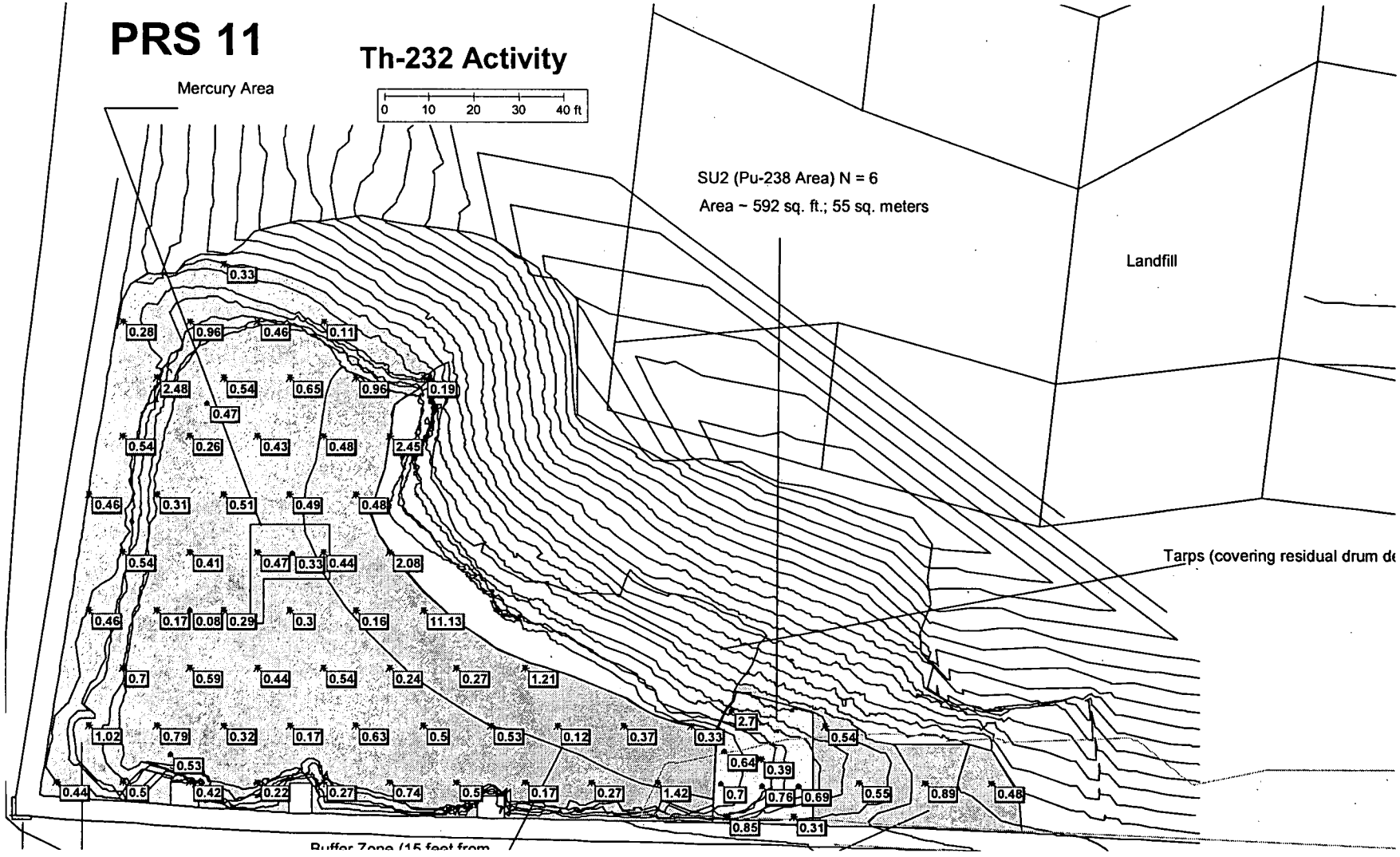

Figure 4

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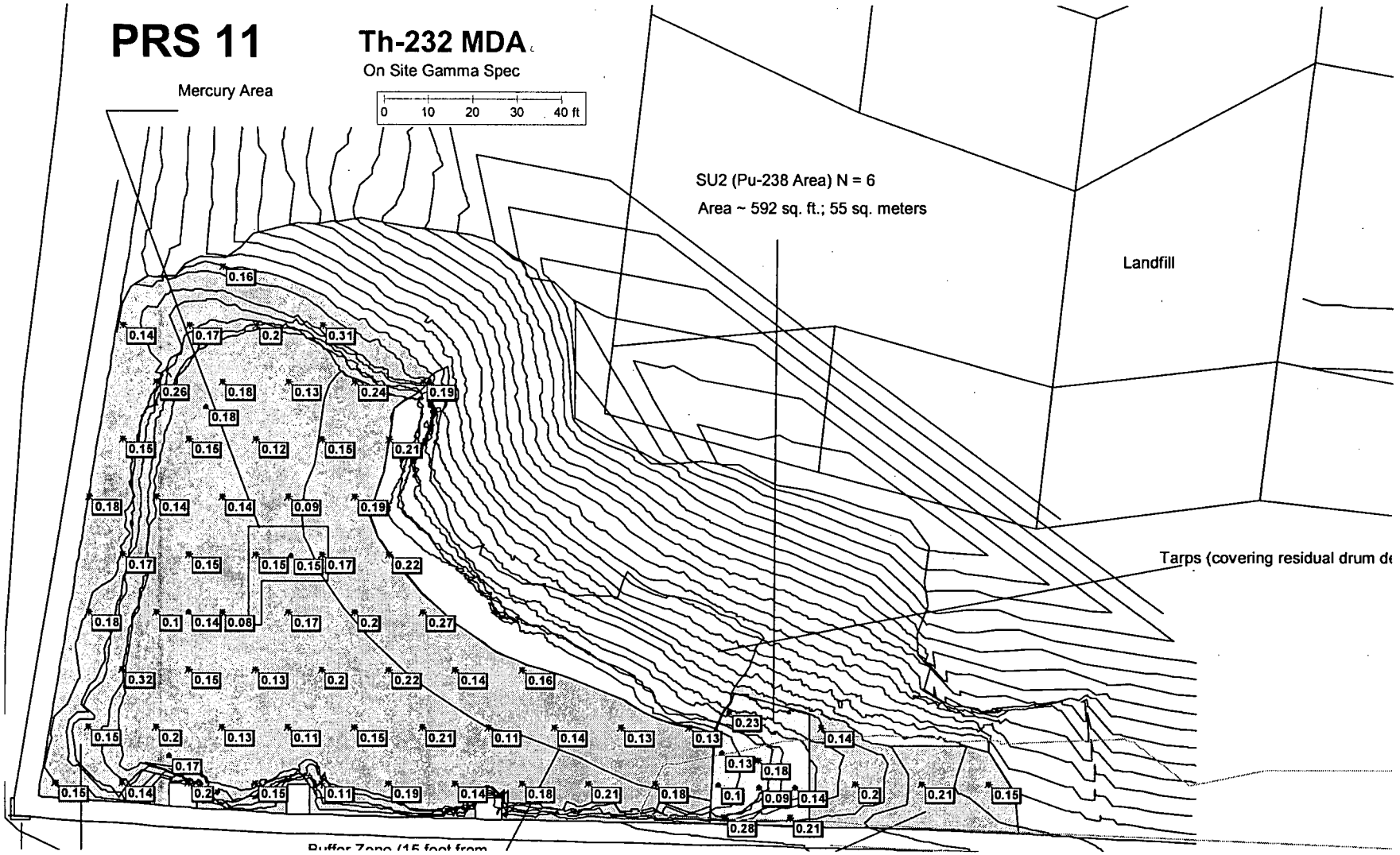

Figure 5

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PRS 11
Off Site Data, Data Analysis, and Backfill Information Package

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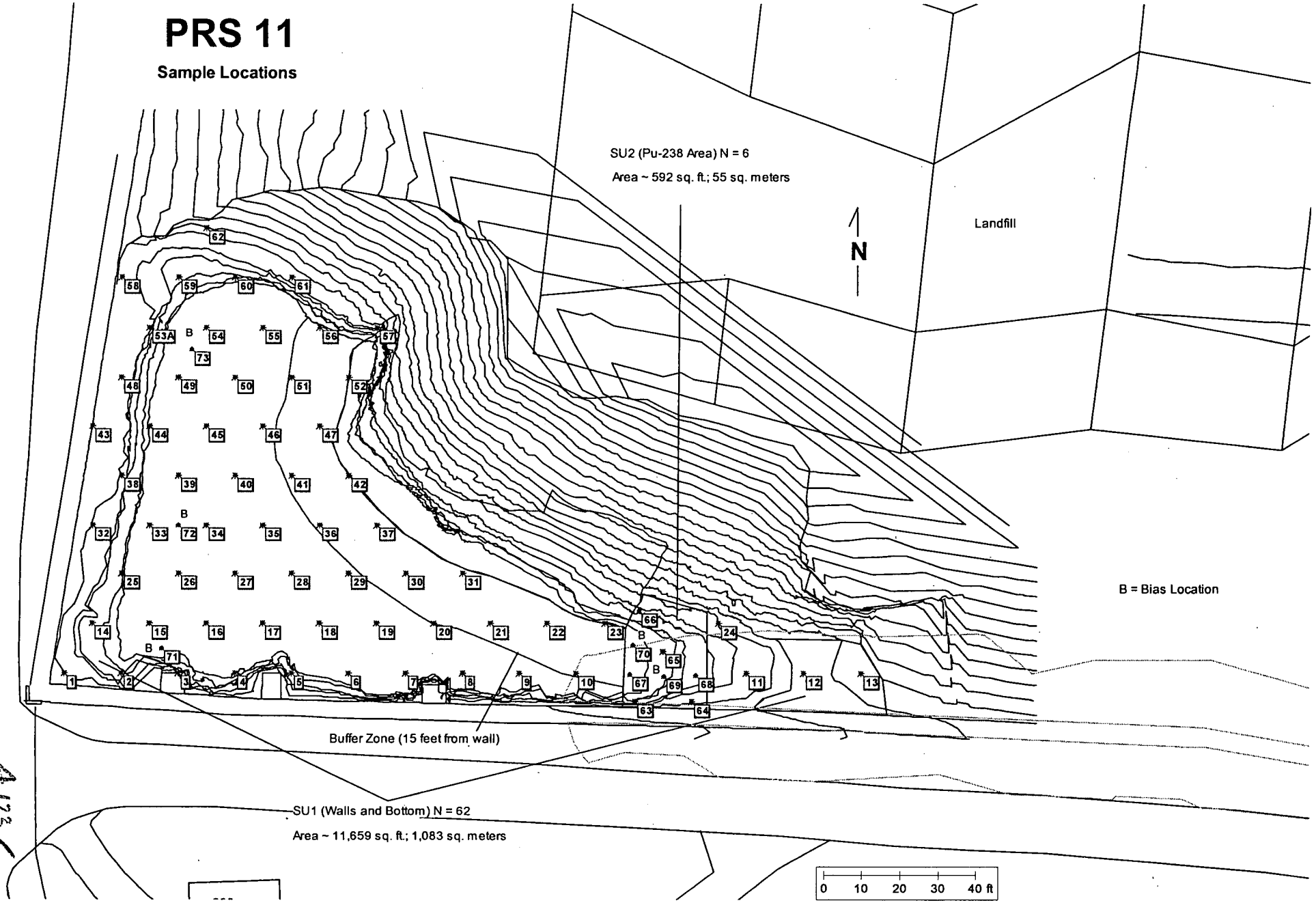
PRS 11

Sample Locations



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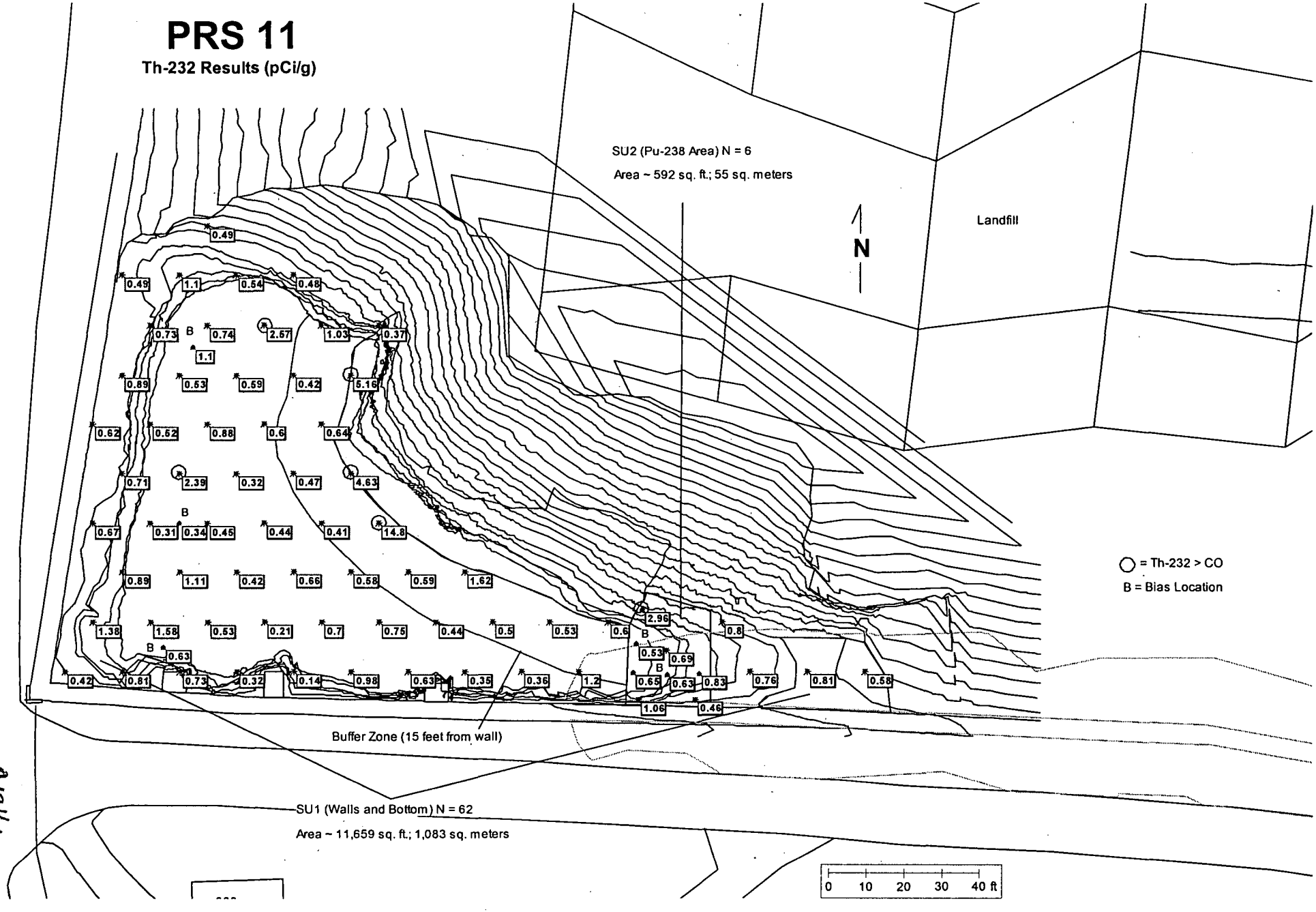
PRS 11

Th-232 Results (pCi/g)



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PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.26	0.26	0.260	PCI/G	Actinium-227
2	11/29/2005	1463957.728	597019.783	697.004		0.26	0.33	0.260	PCI/G	Actinium-227
3	12/1/2005	1463972.728	597019.783	703.747		0.09	0.23	0.090	PCI/G	Actinium-227
4	11/30/2005	1463987.728	597019.783	693.035		0.10	0.24	0.100	PCI/G	Actinium-227
5	11/30/2005	1464002.728	597019.783	697.010		-0.03	0.16	0.080	PCI/G	Actinium-227
6	11/30/2005	1464017.728	597019.783	690.383		0.11	0.28	0.110	PCI/G	Actinium-227
7	12/1/2005	1464032.728	597019.783	689.652		0.10	0.21	0.100	PCI/G	Actinium-227
8	11/30/2005	1464047.728	597019.783	690.374		0.19	0.29	0.190	PCI/G	Actinium-227
9	11/30/2005	1464062.728	597019.783	690.599		0.05	0.31	0.050	PCI/G	Actinium-227
10	11/30/2005	1464077.728	597019.783	691.445		0.19	0.33	0.190	PCI/G	Actinium-227
11	12/1/2005	1464122.728	597019.783	703.183		0.05	0.27	0.050	PCI/G	Actinium-227
12	12/1/2005	1464137.728	597019.783	708.625		-0.03	0.22	0.110	PCI/G	Actinium-227
13	12/1/2005	1464152.728	597019.783	710.754		0.20	0.28	0.200	PCI/G	Actinium-227
14	11/29/2005	1463950.228	597032.774	697.324		0.38	0.31	0.380	PCI/G	Actinium-227
15	11/29/2005	1463965.228	597032.774	691.986		0.35	0.26	0.350	PCI/G	Actinium-227
16	11/30/2005	1463980.228	597032.774	691.857		0.08	0.20	0.080	PCI/G	Actinium-227
17	11/30/2005	1463995.228	597032.774	690.031		-0.06	0.21	0.105	PCI/G	Actinium-227
18	11/30/2005	1464010.228	597032.774	689.241		0.03	0.22	0.030	PCI/G	Actinium-227
19	11/30/2005	1464025.228	597032.774	688.075		-0.10	0.32	0.160	PCI/G	Actinium-227
20	11/30/2005	1464040.228	597032.774	688.067		0.08	0.34	0.080	PCI/G	Actinium-227
21	11/30/2005	1464055.228	597032.774	688.910		0.06	0.19	0.060	PCI/G	Actinium-227
22	11/30/2005	1464070.228	597032.774	689.867		-0.03	0.23	0.115	PCI/G	Actinium-227
23	11/30/2005	1464085.228	597032.774	691.746	0.21		0.38		PCI/G	Actinium-227
24	12/1/2005	1464115.228	597032.774	705.731		0.14	0.27	0.140	PCI/G	Actinium-227
25	12/1/2005	1463957.728	597045.764	695.221		0.22	0.32	0.220	PCI/G	Actinium-227
26	11/29/2005	1463972.728	597045.764	690.465		0.18	0.28	0.180	PCI/G	Actinium-227
27	11/30/2005	1463987.728	597045.764	688.818		0.23	0.30	0.230	PCI/G	Actinium-227
28	11/30/2005	1464002.728	597045.764	688.753		0.00	0.34	0.170	PCI/G	Actinium-227
29	11/30/2005	1464017.728	597045.764	687.060		-0.08	0.29	0.145	PCI/G	Actinium-227
30	11/30/2005	1464032.728	597045.764	686.441		-0.04	0.21	0.105	PCI/G	Actinium-227
31	11/30/2005	1464047.728	597045.764	687.006		0.48	0.31	0.480	PCI/G	Actinium-227
32	11/29/2005	1463950.228	597058.754	701.904		-0.08	0.28	0.140	PCI/G	Actinium-227
33	11/29/2005	1463965.228	597058.754	690.914		0.01	0.21	0.010	PCI/G	Actinium-227
34	11/29/2005	1463980.228	597058.754	690.065		0.20	0.19	0.200	PCI/G	Actinium-227
35	11/30/2005	1463995.228	597058.754	689.196		0.22	0.27	0.220	PCI/G	Actinium-227
36	11/30/2005	1464010.228	597058.754	687.800		0.04	0.20	0.040	PCI/G	Actinium-227
37	11/30/2005	1464025.228	597058.754	686.418	0.63		0.63		PCI/G	Actinium-227
38	11/29/2005	1463957.728	597071.745	701.617		0.14	0.28	0.140	PCI/G	Actinium-227
39	11/29/2005	1463972.728	597071.745	690.465		0.38	0.30	0.380	PCI/G	Actinium-227
40	11/30/2005	1463987.728	597071.745	689.570		0.20	0.28	0.200	PCI/G	Actinium-227
41	11/30/2005	1464002.728	597071.745	689.209		-0.01	0.30	0.150	PCI/G	Actinium-227
42	11/30/2005	1464017.728	597071.745	689.412	0.14		0.41		PCI/G	Actinium-227
43	11/29/2005	1463950.228	597084.735	703.634		0.06	0.31	0.060	PCI/G	Actinium-227
44	11/29/2005	1463965.228	597084.735	693.712		-0.01	0.20	0.100	PCI/G	Actinium-227
45	11/29/2005	1463980.228	597084.735	691.713		0.05	0.23	0.050	PCI/G	Actinium-227
46	11/30/2005	1463995.228	597084.735	689.195		0.16	0.42	0.160	PCI/G	Actinium-227
47	11/30/2005	1464010.228	597084.735	692.378		0.25	0.40	0.250	PCI/G	Actinium-227
48	11/29/2005	1463957.728	597097.726	702.713		0.07	0.28	0.070	PCI/G	Actinium-227
49	11/29/2005	1463972.728	597097.726	692.705		0.13	0.19	0.130	PCI/G	Actinium-227
50	11/30/2005	1463987.728	597097.726	690.608		0.23	0.28	0.230	PCI/G	Actinium-227
51	11/30/2005	1464002.728	597097.726	690.764		0.00	0.30	0.150	PCI/G	Actinium-227
52	11/30/2005	1464017.728	597097.726	691.990	0.01		0.42		PCI/G	Actinium-227
53A	1/12/2005	1463965.228	597110.716	699.585		0.05	0.52	0.050	PCI/G	Actinium-227
54	12/1/2005	1463980.228	597110.716	689.535		0.09	0.32	0.090	PCI/G	Actinium-227

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PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		0.06	0.26	0.060	PCI/G	Actinium-227
56	11/30/2005	1464010.228	597110.716	693.807		0.28	0.33	0.280	PCI/G	Actinium-227
57	12/1/2005	1464025.228	597110.716	702.228		-0.01	0.31	0.155	PCI/G	Actinium-227
58	11/29/2005	1463957.728	597123.706	704.129		0.12	0.23	0.120	PCI/G	Actinium-227
59	11/29/2005	1463972.728	597123.706	699.094		0.42	0.36	0.420	PCI/G	Actinium-227
60	12/1/2005	1463987.728	597123.706	696.134		-0.13	0.32	0.160	PCI/G	Actinium-227
61	12/1/2005	1464002.728	597123.706	703.952		0.06	0.22	0.060	PCI/G	Actinium-227
62	11/29/2005	1463980.228	597136.697	707.998		0.02	0.27	0.020	PCI/G	Actinium-227
							Max	**0.480**	**PCI/G**	**Actinium-227**
							Std. Dev.	**0.102**	**PCI/G**	**Actinium-227**
							CO	**4.600**	**PCI/G**	**Actinium-227**
							HS	**13.610**	**PCI/G**	**Actinium-227**

SU1:

Duplicates:

17	11/30/2005	1463995.228	597032.774	690.031		0.06	0.26	0.060	PCI/G	Actinium-227
49	11/29/2005	1463972.728	597097.726	692.705		0.07	0.18	0.070	PCI/G	Actinium-227
53A	1/12/2005	1463965.228	597110.716	699.585		-0.11	0.49	0.245	PCI/G	Actinium-227
54	12/1/2005	1463980.228	597110.716	689.535		0.14	0.32	0.140	PCI/G	Actinium-227

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.32	0.40	0.320	PCI/G	Actinium-227
72	11/29/2005	1463972.694	597058.672	690.490		0.13	0.15	0.134	PCI/G	Actinium-227
73	11/30/2005	1463976.359	597105.094	691.120		-0.04	0.18	0.090	PCI/G	Actinium-227

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		0.06	0.38	0.060	PCI/G	Actinium-227
64	12/1/2005	1464108.226	597012.324	705.189		0.20	0.25	0.200	PCI/G	Actinium-227
65	11/30/2005	1464100.726	597025.315	695.267		0.40	0.37	0.400	PCI/G	Actinium-227
66	12/1/2005	1464094.238	597036.159	701.163	0.25		0.43		PCI/G	Actinium-227
67	11/30/2005	1464091.835	597019.553	692.932		0.21	0.26	0.210	PCI/G	Actinium-227
68	11/30/2005	1464109.333	597019.104	698.411		0.00	0.37	0.003	PCI/G	Actinium-227
							Max	**0.400**	**PCI/G**	**Actinium-227**
							Std. Dev.	**0.154**	**PCI/G**	**Actinium-227**
							CO	**4.600**	**PCI/G**	**Actinium-227**
							HS	**13.610**	**PCI/G**	**Actinium-227**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		-0.05	0.25	0.125	PCI/G	Actinium-227

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		0.41	0.32	0.410	PCI/G	Actinium-227
70	11/30/2005	1464092.719	597027.063	695.267		-0.08	0.35	0.175	PCI/G	Actinium-227

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		-0.04	0.05	0.027	PCI/G	Bismuth-210m
2	11/29/2005	1463957.728	597019.783	697.004		-0.06	0.07	0.033	PCI/G	Bismuth-210m
3	12/1/2005	1463972.728	597019.783	703.747		-0.02	0.05	0.024	PCI/G	Bismuth-210m
4	11/30/2005	1463987.728	597019.783	693.035		0.00	0.05	0.026	PCI/G	Bismuth-210m
5	11/30/2005	1464002.728	597019.783	697.010		-0.01	0.04	0.019	PCI/G	Bismuth-210m
6	11/30/2005	1464017.728	597019.783	690.383		-0.03	0.06	0.031	PCI/G	Bismuth-210m
7	12/1/2005	1464032.728	597019.783	689.652		-0.01	0.05	0.024	PCI/G	Bismuth-210m
8	11/30/2005	1464047.728	597019.783	690.374		0.00	0.06	0.001	PCI/G	Bismuth-210m
9	11/30/2005	1464062.728	597019.783	690.599		0.02	0.08	0.023	PCI/G	Bismuth-210m
10	11/30/2005	1464077.728	597019.783	691.445		-0.02	0.07	0.037	PCI/G	Bismuth-210m
11	12/1/2005	1464122.728	597019.783	703.183		-0.02	0.06	0.028	PCI/G	Bismuth-210m
12	12/1/2005	1464137.728	597019.783	708.625		-0.02	0.05	0.026	PCI/G	Bismuth-210m
13	12/1/2005	1464152.728	597019.783	710.754		-0.05	0.05	0.026	PCI/G	Bismuth-210m
14	11/29/2005	1463950.228	597032.774	697.324		0.03	0.07	0.032	PCI/G	Bismuth-210m
15	11/29/2005	1463965.228	597032.774	691.986		-0.04	0.05	0.024	PCI/G	Bismuth-210m
16	11/30/2005	1463980.228	597032.774	691.857		-0.02	0.04	0.020	PCI/G	Bismuth-210m
17	11/30/2005	1463995.228	597032.774	690.031		-0.01	0.05	0.024	PCI/G	Bismuth-210m
18	11/30/2005	1464010.228	597032.774	689.241		-0.01	0.05	0.026	PCI/G	Bismuth-210m
19	11/30/2005	1464025.228	597032.774	688.075		-0.06	0.09	0.043	PCI/G	Bismuth-210m
20	11/30/2005	1464040.228	597032.774	688.067		0.02	0.09	0.017	PCI/G	Bismuth-210m
21	11/30/2005	1464055.228	597032.774	688.910		-0.01	0.04	0.022	PCI/G	Bismuth-210m
22	11/30/2005	1464070.228	597032.774	689.867		0.01	0.05	0.010	PCI/G	Bismuth-210m
23	11/30/2005	1464085.228	597032.774	691.746	-0.05		0.08		PCI/G	Bismuth-210m
24	12/1/2005	1464115.228	597032.774	705.731		-0.04	0.06	0.029	PCI/G	Bismuth-210m
25	12/1/2005	1463957.728	597045.764	695.221		0.04	0.06	0.039	PCI/G	Bismuth-210m
26	11/29/2005	1463972.728	597045.764	690.465		0.01	0.06	0.007	PCI/G	Bismuth-210m
27	11/30/2005	1463987.728	597045.764	688.818		-0.03	0.06	0.029	PCI/G	Bismuth-210m
28	11/30/2005	1464002.728	597045.764	688.753		-0.01	0.08	0.041	PCI/G	Bismuth-210m
29	11/30/2005	1464017.728	597045.764	687.060		-0.02	0.06	0.032	PCI/G	Bismuth-210m
30	11/30/2005	1464032.728	597045.764	686.441		-0.01	0.05	0.025	PCI/G	Bismuth-210m
31	11/30/2005	1464047.728	597045.764	687.006		0.01	0.06	0.009	PCI/G	Bismuth-210m
32	11/29/2005	1463950.228	597058.754	701.904		-0.01	0.05	0.027	PCI/G	Bismuth-210m
33	11/29/2005	1463965.228	597058.754	690.914		0.02	0.05	0.021	PCI/G	Bismuth-210m
34	11/29/2005	1463980.228	597058.754	690.065		0.00	0.04	0.001	PCI/G	Bismuth-210m
35	11/30/2005	1463995.228	597058.754	689.196		-0.01	0.06	0.029	PCI/G	Bismuth-210m
36	11/30/2005	1464010.228	597058.754	687.800		-0.02	0.04	0.021	PCI/G	Bismuth-210m
37	11/30/2005	1464025.228	597058.754	686.418	-0.02		0.12		PCI/G	Bismuth-210m
38	11/29/2005	1463957.728	597071.745	701.617		-0.02	0.06	0.028	PCI/G	Bismuth-210m
39	11/29/2005	1463972.728	597071.745	690.465		-0.02	0.06	0.029	PCI/G	Bismuth-210m
40	11/30/2005	1463987.728	597071.745	689.570		-0.04	0.06	0.029	PCI/G	Bismuth-210m
41	11/30/2005	1464002.728	597071.745	689.209		0.03	0.08	0.030	PCI/G	Bismuth-210m
42	11/30/2005	1464017.728	597071.745	689.412	-0.01		0.09		PCI/G	Bismuth-210m
43	11/29/2005	1463950.228	597084.735	703.634		-0.01	0.06	0.031	PCI/G	Bismuth-210m
44	11/29/2005	1463965.228	597084.735	693.712		0.02	0.05	0.017	PCI/G	Bismuth-210m
45	11/29/2005	1463980.228	597084.735	691.713		-0.01	0.05	0.024	PCI/G	Bismuth-210m
46	11/30/2005	1463995.228	597084.735	689.195		-0.05	0.09	0.046	PCI/G	Bismuth-210m
47	11/30/2005	1464010.228	597084.735	692.378		-0.04	0.08	0.041	PCI/G	Bismuth-210m
48	11/29/2005	1463957.728	597097.726	702.713		-0.01	0.06	0.030	PCI/G	Bismuth-210m
49	11/29/2005	1463972.728	597097.726	692.705		-0.01	0.04	0.018	PCI/G	Bismuth-210m
50	11/30/2005	1463987.728	597097.726	690.608		0.00	0.06	0.030	PCI/G	Bismuth-210m
51	11/30/2005	1464002.728	597097.726	690.764		-0.06	0.06	0.030	PCI/G	Bismuth-210m
52	11/30/2005	1464017.728	597097.726	691.990	0.01		0.09		PCI/G	Bismuth-210m
53A	1/12/2005	1463965.228	597110.716	699.585		0.03	0.12	0.029	PCI/G	Bismuth-210m
54	12/1/2005	1463980.228	597110.716	689.535		-0.04	0.07	0.035	PCI/G	Bismuth-210m

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		0.01	0.06	0.012	PCI/G	Bismuth-210m
56	11/30/2005	1464010.228	597110.716	693.807		-0.01	0.07	0.033	PCI/G	Bismuth-210m
57	12/1/2005	1464025.228	597110.716	702.228		-0.01	0.07	0.035	PCI/G	Bismuth-210m
58	11/29/2005	1463957.728	597123.706	704.129		0.00	0.05	0.027	PCI/G	Bismuth-210m
59	11/29/2005	1463972.728	597123.706	699.094		0.00	0.07	0.003	PCI/G	Bismuth-210m
60	12/1/2005	1463987.728	597123.706	696.134		-0.04	0.07	0.036	PCI/G	Bismuth-210m
61	12/1/2005	1464002.728	597123.706	703.952		-0.02	0.05	0.024	PCI/G	Bismuth-210m
62	11/29/2005	1463980.228	597136.697	707.998		-0.01	0.06	0.030	PCI/G	Bismuth-210m
							Max	**0.046**	**PCI/G**	**Bismuth-210m**
							Std. Dev.	**0.010**	**PCI/G**	**Bismuth-210m**
							CO	**8.300**	**PCI/G**	**Bismuth-210m**
							HS	**24.900**	**PCI/G**	**Bismuth-210m**

SU1:

Duplicates:

17	11/30/2005	1463995.228	597032.774	690.031		-0.03	0.06	0.028	PCI/G	Bismuth-210m
49	11/29/2005	1463972.728	597097.726	692.705		-0.02	0.04	0.019	PCI/G	Bismuth-210m
53A	1/12/2005	1463965.228	597110.716	699.585		0.04	0.14	0.041	PCI/G	Bismuth-210m
54	12/1/2005	1463980.228	597110.716	689.535		-0.02	0.07	0.033	PCI/G	Bismuth-210m

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		-0.07	0.07	0.037	PCI/G	Bismuth-210m
72	11/29/2005	1463972.694	597058.672	690.490		-0.01	0.03	0.016	PCI/G	Bismuth-210m
73	11/30/2005	1463976.359	597105.094	691.120		0.01	0.04	0.011	PCI/G	Bismuth-210m

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		0.00	0.08	0.002	PCI/G	Bismuth-210m
64	12/1/2005	1464108.226	597012.324	705.189		-0.04	0.05	0.024	PCI/G	Bismuth-210m
65	11/30/2005	1464100.726	597025.315	695.267		-0.03	0.08	0.038	PCI/G	Bismuth-210m
66	12/1/2005	1464094.238	597036.159	701.163	-0.03		0.09		PCI/G	Bismuth-210m
67	11/30/2005	1464091.835	597019.553	692.932		-0.01	0.05	0.026	PCI/G	Bismuth-210m
68	11/30/2005	1464109.333	597019.104	698.411		-0.04	0.08	0.040	PCI/G	Bismuth-210m
							Max	**0.040**	**PCI/G**	**Bismuth-210m**
							Std. Dev.	**0.015**	**PCI/G**	**Bismuth-210m**
							CO	**8.300**	**PCI/G**	**Bismuth-210m**
							HS	**24.900**	**PCI/G**	**Bismuth-210m**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		-0.04	0.06	0.029	PCI/G	Bismuth-210m

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		-0.01	0.06	0.030	PCI/G	Bismuth-210m
70	11/30/2005	1464092.719	597027.063	695.267		-0.03	0.07	0.036	PCI/G	Bismuth-210m

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.95	0.97	0.950	PCI/G	Lead-210
2	11/29/2005	1463957.728	597019.783	697.004		0.74	1.60	0.740	PCI/G	Lead-210
3	12/1/2005	1463972.728	597019.783	703.747		0.52	1.10	0.520	PCI/G	Lead-210
4	11/30/2005	1463987.728	597019.783	693.035		0.59	1.10	0.590	PCI/G	Lead-210
5	11/30/2005	1464002.728	597019.783	697.010		0.38	0.88	0.380	PCI/G	Lead-210
6	11/30/2005	1464017.728	597019.783	690.383		1.29	1.40	1.290	PCI/G	Lead-210
7	12/1/2005	1464032.728	597019.783	689.652		0.37	1.00	0.370	PCI/G	Lead-210
8	11/30/2005	1464047.728	597019.783	690.374		-0.55	1.30	0.650	PCI/G	Lead-210
9	11/30/2005	1464062.728	597019.783	690.599		1.34	1.60	1.340	PCI/G	Lead-210
10	11/30/2005	1464077.728	597019.783	691.445		0.41	1.60	0.410	PCI/G	Lead-210
11	12/1/2005	1464122.728	597019.783	703.183		1.37	1.50	1.370	PCI/G	Lead-210
12	12/1/2005	1464137.728	597019.783	708.625		0.42	1.10	0.420	PCI/G	Lead-210
13	12/1/2005	1464152.728	597019.783	710.754		0.58	1.30	0.580	PCI/G	Lead-210
14	11/29/2005	1463950.228	597032.774	697.324		-0.01	1.40	0.700	PCI/G	Lead-210
15	11/29/2005	1463965.228	597032.774	691.986		0.45	0.91	0.450	PCI/G	Lead-210
16	11/30/2005	1463980.228	597032.774	691.857		0.48	0.75	0.480	PCI/G	Lead-210
17	11/30/2005	1463995.228	597032.774	690.031		-0.03	1.00	0.500	PCI/G	Lead-210
18	11/30/2005	1464010.228	597032.774	689.241		0.62	1.20	0.620	PCI/G	Lead-210
19	11/30/2005	1464025.228	597032.774	688.075		1.40	1.90	1.400	PCI/G	Lead-210
20	11/30/2005	1464040.228	597032.774	688.067		-0.24	1.90	0.950	PCI/G	Lead-210
21	11/30/2005	1464055.228	597032.774	688.910		0.64	0.70	0.640	PCI/G	Lead-210
22	11/30/2005	1464070.228	597032.774	689.867		0.58	1.20	0.580	PCI/G	Lead-210
23	11/30/2005	1464085.228	597032.774	691.746	0.68		1.70		PCI/G	Lead-210
24	12/1/2005	1464115.228	597032.774	705.731		0.60	1.20	0.600	PCI/G	Lead-210
25	12/1/2005	1463957.728	597045.764	695.221		0.70	1.20	0.700	PCI/G	Lead-210
26	11/29/2005	1463972.728	597045.764	690.465		0.93	1.30	0.930	PCI/G	Lead-210
27	11/30/2005	1463987.728	597045.764	688.818		1.07	1.30	1.070	PCI/G	Lead-210
28	11/30/2005	1464002.728	597045.764	688.753		0.52	1.90	0.520	PCI/G	Lead-210
29	11/30/2005	1464017.728	597045.764	687.060		0.28	1.50	0.280	PCI/G	Lead-210
30	11/30/2005	1464032.728	597045.764	686.441		0.42	1.10	0.420	PCI/G	Lead-210
31	11/30/2005	1464047.728	597045.764	687.006		1.47	1.30	1.470	PCI/G	Lead-210
32	11/29/2005	1463950.228	597058.754	701.904		1.41	1.60	1.410	PCI/G	Lead-210
33	11/29/2005	1463965.228	597058.754	690.914		1.01	1.20	1.010	PCI/G	Lead-210
34	11/29/2005	1463980.228	597058.754	690.065		0.77	0.95	0.770	PCI/G	Lead-210
35	11/30/2005	1463995.228	597058.754	689.196		0.72	1.30	0.720	PCI/G	Lead-210
36	11/30/2005	1464010.228	597058.754	687.800		0.66	0.99	0.660	PCI/G	Lead-210
37	11/30/2005	1464025.228	597058.754	686.418	1.70		2.30		PCI/G	Lead-210
38	11/29/2005	1463957.728	597071.745	701.617		1.10	1.00	1.100	PCI/G	Lead-210
39	11/29/2005	1463972.728	597071.745	690.465		0.23	1.20	0.230	PCI/G	Lead-210
40	11/30/2005	1463987.728	597071.745	689.570		0.73	1.40	0.730	PCI/G	Lead-210
41	11/30/2005	1464002.728	597071.745	689.209		1.39	1.90	1.390	PCI/G	Lead-210
42	11/30/2005	1464017.728	597071.745	689.412	1.04		1.70		PCI/G	Lead-210
43	11/29/2005	1463950.228	597084.735	703.634		1.06	1.20	1.060	PCI/G	Lead-210
44	11/29/2005	1463965.228	597084.735	693.712		0.46	0.74	0.460	PCI/G	Lead-210
45	11/29/2005	1463980.228	597084.735	691.713		0.08	1.10	0.080	PCI/G	Lead-210
46	11/30/2005	1463995.228	597084.735	689.195		0.90	2.00	0.900	PCI/G	Lead-210
47	11/30/2005	1464010.228	597084.735	692.378		0.80	1.90	0.800	PCI/G	Lead-210
48	11/29/2005	1463957.728	597097.726	702.713		0.71	1.10	0.710	PCI/G	Lead-210
49	11/29/2005	1463972.728	597097.726	692.705		0.54	0.85	0.540	PCI/G	Lead-210
50	11/30/2005	1463987.728	597097.726	690.608		0.61	1.30	0.610	PCI/G	Lead-210
51	11/30/2005	1464002.728	597097.726	690.764		0.65	1.50	0.650	PCI/G	Lead-210
52	11/30/2005	1464017.728	597097.726	691.990	-0.30		1.80		PCI/G	Lead-210
53A	1/12/2005	1463965.228	597110.716	699.585		-0.10	2.30	1.150	PCI/G	Lead-210
54	12/1/2005	1463980.228	597110.716	689.535		0.16	1.60	0.160	PCI/G	Lead-210

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		0.09	1.30	0.090	PCI/G	Lead-210
56	11/30/2005	1464010.228	597110.716	693.807		0.73	1.50	0.730	PCI/G	Lead-210
57	12/1/2005	1464025.228	597110.716	702.228		0.98	1.60	0.980	PCI/G	Lead-210
58	11/29/2005	1463957.728	597123.706	704.129		0.17	1.10	0.170	PCI/G	Lead-210
59	11/29/2005	1463972.728	597123.706	699.094		1.02	1.30	1.020	PCI/G	Lead-210
60	12/1/2005	1463987.728	597123.706	696.134		-0.30	1.90	0.950	PCI/G	Lead-210
61	12/1/2005	1464002.728	597123.706	703.952		0.01	1.10	0.007	PCI/G	Lead-210
62	11/29/2005	1463980.228	597136.697	707.998		0.76	1.40	0.760	PCI/G	Lead-210
							Max	**1.470**	**PCI/G**	**Lead-210**
							Std. Dev.	**0.362**	**PCI/G**	**Lead-210**
							CO	**7.400**	**PCI/G**	**Lead-210**
							HS	**19.800**	**PCI/G**	**Lead-210**

SU1:

Duplicates:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.40	1.40	0.400	PCI/G	Lead-210
49	11/29/2005	1463972.728	597097.726	692.705		0.56	0.93	0.560	PCI/G	Lead-210
53A	1/12/2005	1463965.228	597110.716	699.585		0.30	2.40	0.300	PCI/G	Lead-210
54	12/1/2005	1463980.228	597110.716	689.535		0.41	1.40	0.410	PCI/G	Lead-210

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.26	1.70	0.260	PCI/G	Lead-210
72	11/29/2005	1463972.694	597058.672	690.490		0.51	0.80	0.510	PCI/G	Lead-210
73	11/30/2005	1463976.359	597105.094	691.120		0.63	0.90	0.630	PCI/G	Lead-210

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		0.60	1.80	0.600	PCI/G	Lead-210
64	12/1/2005	1464108.226	597012.324	705.189		1.02	0.88	1.020	PCI/G	Lead-210
65	11/30/2005	1464100.726	597025.315	695.267		0.40	1.90	0.400	PCI/G	Lead-210
66	12/1/2005	1464094.238	597036.159	701.163	0.80		2.00		PCI/G	Lead-210
67	11/30/2005	1464091.835	597019.553	692.932		0.71	1.20	0.710	PCI/G	Lead-210
68	11/30/2005	1464109.333	597019.104	698.411		0.47	1.70	0.470	PCI/G	Lead-210
							Max	**1.020**	**PCI/G**	**Lead-210**
							Std. Dev.	**0.244**	**PCI/G**	**Lead-210**
							CO	**7.400**	**PCI/G**	**Lead-210**
							HS	**19.800**	**PCI/G**	**Lead-210**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		1.19	0.99	1.190	PCI/G	Lead-210

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		0.31	1.30	0.310	PCI/G	Lead-210
70	11/30/2005	1464092.719	597027.063	695.267		1.32	1.70	1.320	PCI/G	Lead-210

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SU2:

63	11/30/2005	1464093.226	597012.324	696.566	0.05	0.02	0.053	PCI/G	Plutonium-238
64	12/1/2005	1464108.226	597012.324	705.189	0.71	0.03	0.710	PCI/G	Plutonium-238
65	11/30/2005	1464100.726	597025.315	695.267	3.46	0.04	3.460	PCI/G	Plutonium-238
66	12/1/2005	1464094.238	597036.159	701.163 34.00		0.03		PCI/G	Plutonium-238
67	11/30/2005	1464091.835	597019.553	692.932	2.26	0.04	2.260	PCI/G	Plutonium-238
68	11/30/2005	1464109.333	597019.104	698.411	5.40	0.04	5.400	PCI/G	Plutonium-238
						Max	**5.400**	**PCI/G**	**Plutonium-238**
						Std. Dev.	**2.151**	**PCI/G**	**Plutonium-238**
						CO	**55.000**	**PCI/G**	**Plutonium-238**
						HS	**165.000**	**PCI/G**	**Plutonium-238**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411	4.70	0.04	4.700	PCI/G	Plutonium-238

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932	2.34	0.04	2.340	PCI/G	Plutonium-238
70	11/30/2005	1464092.719	597027.063	695.267	1.58	0.04	1.580	PCI/G	Plutonium-238

SU1:

Bias Locations:

37	11/30/2005	1464025.228	597058.754	686.418	2.60	0.04	2.600	PCI/G	Plutonium-238
71	11/30/2005	1463968.419	597026.146	697.866	0.12	0.04	0.123	PCI/G	Plutonium-238
72	11/29/2005	1463972.694	597058.672	690.490	0.02	0.04	0.020	PCI/G	Plutonium-238
73	11/30/2005	1463976.359	597105.094	691.120	0.10	0.04	0.100	PCI/G	Plutonium-238

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PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.65	0.10	0.650	PCI/G	Radium-226
2	11/29/2005	1463957.728	597019.783	697.004		1.12	0.12	1.120	PCI/G	Radium-226
3	12/1/2005	1463972.728	597019.783	703.747		0.74	0.08	0.740	PCI/G	Radium-226
4	11/30/2005	1463987.728	597019.783	693.035		0.60	0.08	0.600	PCI/G	Radium-226
5	11/30/2005	1464002.728	597019.783	697.010		0.56	0.06	0.560	PCI/G	Radium-226
6	11/30/2005	1464017.728	597019.783	690.383		0.94	0.12	0.940	PCI/G	Radium-226
7	12/1/2005	1464032.728	597019.783	689.652		0.82	0.08	0.820	PCI/G	Radium-226
8	11/30/2005	1464047.728	597019.783	690.374		0.61	0.14	0.610	PCI/G	Radium-226
9	11/30/2005	1464062.728	597019.783	690.599		0.49	0.10	0.490	PCI/G	Radium-226
10	11/30/2005	1464077.728	597019.783	691.445		1.04	0.11	1.040	PCI/G	Radium-226
11	12/1/2005	1464122.728	597019.783	703.183		0.77	0.09	0.770	PCI/G	Radium-226
12	12/1/2005	1464137.728	597019.783	708.625		0.87	0.08	0.870	PCI/G	Radium-226
13	12/1/2005	1464152.728	597019.783	710.754		0.83	0.09	0.830	PCI/G	Radium-226
14	11/29/2005	1463950.228	597032.774	697.324		0.97	0.08	0.970	PCI/G	Radium-226
15	11/29/2005	1463965.228	597032.774	691.986		0.71	0.07	0.710	PCI/G	Radium-226
16	11/30/2005	1463980.228	597032.774	691.857		0.55	0.07	0.550	PCI/G	Radium-226
17	11/30/2005	1463995.228	597032.774	690.031		0.49	0.09	0.490	PCI/G	Radium-226
18	11/30/2005	1464010.228	597032.774	689.241		0.69	0.09	0.690	PCI/G	Radium-226
19	11/30/2005	1464025.228	597032.774	688.075		0.83	0.13	0.830	PCI/G	Radium-226
20	11/30/2005	1464040.228	597032.774	688.067		0.67	0.12	0.670	PCI/G	Radium-226
21	11/30/2005	1464055.228	597032.774	688.910		0.63	0.06	0.630	PCI/G	Radium-226
22	11/30/2005	1464070.228	597032.774	689.867		0.62	0.07	0.620	PCI/G	Radium-226
23	11/30/2005	1464085.228	597032.774	691.746	0.68		0.13		PCI/G	Radium-226
24	12/1/2005	1464115.228	597032.774	705.731		0.73	0.09	0.730	PCI/G	Radium-226
25	12/1/2005	1463957.728	597045.764	695.221		1.05	0.09	1.050	PCI/G	Radium-226
26	11/29/2005	1463972.728	597045.764	690.465		0.88	0.11	0.880	PCI/G	Radium-226
27	11/30/2005	1463987.728	597045.764	688.818		0.75	0.12	0.750	PCI/G	Radium-226
28	11/30/2005	1464002.728	597045.764	688.753		0.69	0.16	0.690	PCI/G	Radium-226
29	11/30/2005	1464017.728	597045.764	687.060		0.59	0.12	0.590	PCI/G	Radium-226
30	11/30/2005	1464032.728	597045.764	686.441		0.57	0.09	0.570	PCI/G	Radium-226
31	11/30/2005	1464047.728	597045.764	687.006		0.73	0.10	0.730	PCI/G	Radium-226
32	11/29/2005	1463950.228	597058.754	701.904		0.97	0.12	0.970	PCI/G	Radium-226
33	11/29/2005	1463965.228	597058.754	690.914		0.59	0.07	0.590	PCI/G	Radium-226
34	11/29/2005	1463980.228	597058.754	690.065		0.44	0.08	0.436	PCI/G	Radium-226
35	11/30/2005	1463995.228	597058.754	689.196		0.95	0.08	0.950	PCI/G	Radium-226
36	11/30/2005	1464010.228	597058.754	687.800		0.67	0.06	0.670	PCI/G	Radium-226
37	11/30/2005	1464025.228	597058.754	686.418	1.67		0.21		PCI/G	Radium-226
38	11/29/2005	1463957.728	597071.745	701.617		1.19	0.09	1.190	PCI/G	Radium-226
39	11/29/2005	1463972.728	597071.745	690.465		0.69	0.08	0.690	PCI/G	Radium-226
40	11/30/2005	1463987.728	597071.745	689.570		0.66	0.10	0.660	PCI/G	Radium-226
41	11/30/2005	1464002.728	597071.745	689.209		1.00	0.10	1.000	PCI/G	Radium-226
42	11/30/2005	1464017.728	597071.745	689.412	0.74		0.14		PCI/G	Radium-226
43	11/29/2005	1463950.228	597084.735	703.634		1.01	0.10	1.010	PCI/G	Radium-226
44	11/29/2005	1463965.228	597084.735	693.712		0.73	0.07	0.730	PCI/G	Radium-226
45	11/29/2005	1463980.228	597084.735	691.713		0.60	0.08	0.600	PCI/G	Radium-226
46	11/30/2005	1463995.228	597084.735	689.195		0.90	0.15	0.900	PCI/G	Radium-226
47	11/30/2005	1464010.228	597084.735	692.378		0.71	0.13	0.710	PCI/G	Radium-226
48	11/29/2005	1463957.728	597097.726	702.713		1.17	0.09	1.170	PCI/G	Radium-226
49	11/29/2005	1463972.728	597097.726	692.705		0.41	0.07	0.410	PCI/G	Radium-226
50	11/30/2005	1463987.728	597097.726	690.608		0.84	0.09	0.840	PCI/G	Radium-226
51	11/30/2005	1464002.728	597097.726	690.764		0.99	0.10	0.990	PCI/G	Radium-226
52	11/30/2005	1464017.728	597097.726	691.990	0.92		0.14		PCI/G	Radium-226
53A	1/12/2005	1463965.228	597110.716	699.585		0.91	0.46	0.910	PCI/G	Radium-226
54	12/1/2005	1463980.228	597110.716	689.535		0.76	0.13	0.760	PCI/G	Radium-226

PRS 11 Off Site Data from STL St. Louis

SU1:

Short

ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		0.74	0.10	0.740	PCI/G	Radium-226
56	11/30/2005	1464010.228	597110.716	693.807		1.22	0.11	1.220	PCI/G	Radium-226
57	12/1/2005	1464025.228	597110.716	702.228		0.88	0.12	0.880	PCI/G	Radium-226
58	11/29/2005	1463957.728	597123.706	704.129		0.75	0.08	0.750	PCI/G	Radium-226
59	11/29/2005	1463972.728	597123.706	699.094		1.02	0.13	1.020	PCI/G	Radium-226
60	12/1/2005	1463987.728	597123.706	696.134		0.83	0.13	0.830	PCI/G	Radium-226
61	12/1/2005	1464002.728	597123.706	703.952		0.86	0.08	0.860	PCI/G	Radium-226
62	11/29/2005	1463980.228	597136.697	707.998		0.83	0.10	0.830	PCI/G	Radium-226
							Max	**1.220**	**PCI/G**	**Radium-226**
							Std. Dev.	**0.190**	**PCI/G**	**Radium-226**
							CO	**2.900**	**PCI/G**	**Radium-226**
							HS	**4.700**	**PCI/G**	**Radium-226**

SU1:

Duplicates:

Short

ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.44	0.07	0.440	PCI/G	Radium-226
49	11/29/2005	1463972.728	597097.726	692.705		0.48	0.07	0.480	PCI/G	Radium-226
53A	1/12/2005	1463965.228	597110.716	699.585		0.93	0.13	0.930	PCI/G	Radium-226
54	12/1/2005	1463980.228	597110.716	689.535		0.79	0.12	0.790	PCI/G	Radium-226

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.67	0.10	0.670	PCI/G	Radium-226
72	11/29/2005	1463972.694	597058.672	690.490		0.36	0.06	0.361	PCI/G	Radium-226
73	11/30/2005	1463976.359	597105.094	691.120		0.67	0.07	0.670	PCI/G	Radium-226

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		1.07	0.15	1.070	PCI/G	Radium-226
64	12/1/2005	1464108.226	597012.324	705.189		0.73	0.08	0.730	PCI/G	Radium-226
65	11/30/2005	1464100.726	597025.315	695.267		0.88	0.11	0.880	PCI/G	Radium-226
66	12/1/2005	1464094.238	597036.159	701.163	1.13		0.16		PCI/G	Radium-226
67	11/30/2005	1464091.835	597019.553	692.932		0.73	0.07	0.730	PCI/G	Radium-226
68	11/30/2005	1464109.333	597019.104	698.411		0.92	0.17	0.920	PCI/G	Radium-226
							Max	**1.070**	**PCI/G**	**Radium-226**
							Std. Dev.	**0.143**	**PCI/G**	**Radium-226**
							CO	**2.900**	**PCI/G**	**Radium-226**
							HS	**4.700**	**PCI/G**	**Radium-226**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		0.82	0.11	0.820	PCI/G	Radium-226

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		0.87	0.09	0.870	PCI/G	Radium-226
70	11/30/2005	1464092.719	597027.063	695.267		0.63	0.10	0.630	PCI/G	Radium-226

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PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		1.39	0.67	1.390	PCI/G	Radium-224
2	11/29/2005	1463957.728	597019.783	697.004		2.60	0.90	2.600	PCI/G	Radium-224
3	12/1/2005	1463972.728	597019.783	703.747		1.18	0.61	1.180	PCI/G	Radium-224
4	11/30/2005	1463987.728	597019.783	693.035		1.38	0.60	1.380	PCI/G	Radium-224
5	11/30/2005	1464002.728	597019.783	697.010		1.09	0.71	1.090	PCI/G	Radium-224
6	11/30/2005	1464017.728	597019.783	690.383		2.10	0.80	2.100	PCI/G	Radium-224
7	12/1/2005	1464032.728	597019.783	689.652		1.90	0.90	1.900	PCI/G	Radium-224
8	11/30/2005	1464047.728	597019.783	690.374		1.60	1.20	1.600	PCI/G	Radium-224
9	11/30/2005	1464062.728	597019.783	690.599		1.41	1.20	1.410	PCI/G	Radium-224
10	11/30/2005	1464077.728	597019.783	691.445		2.80	0.90	2.800	PCI/G	Radium-224
11	12/1/2005	1464122.728	597019.783	703.183		1.57	0.75	1.570	PCI/G	Radium-224
12	12/1/2005	1464137.728	597019.783	708.625		2.40	1.00	2.400	PCI/G	Radium-224
13	12/1/2005	1464152.728	597019.783	710.754		3.20	1.20	3.200	PCI/G	Radium-224
14	11/29/2005	1463950.228	597032.774	697.324		2.90	0.90	2.900	PCI/G	Radium-224
15	11/29/2005	1463965.228	597032.774	691.986		1.42	0.63	1.420	PCI/G	Radium-224
16	11/30/2005	1463980.228	597032.774	691.857		2.00	0.80	2.000	PCI/G	Radium-224
17	11/30/2005	1463995.228	597032.774	690.031		1.41	0.96	1.410	PCI/G	Radium-224
18	11/30/2005	1464010.228	597032.774	689.241		1.53	0.63	1.530	PCI/G	Radium-224
19	11/30/2005	1464025.228	597032.774	688.075		2.30	0.80	2.300	PCI/G	Radium-224
20	11/30/2005	1464040.228	597032.774	688.067		1.41	0.94	1.410	PCI/G	Radium-224
21	11/30/2005	1464055.228	597032.774	688.910		1.45	0.51	1.450	PCI/G	Radium-224
22	11/30/2005	1464070.228	597032.774	689.867		1.90	0.90	1.900	PCI/G	Radium-224
23	11/30/2005	1464085.228	597032.774	691.746	1.50		1.00		PCI/G	Radium-224
24	12/1/2005	1464115.228	597032.774	705.731		2.20	0.70	2.200	PCI/G	Radium-224
25	12/1/2005	1463957.728	597045.764	695.221		2.30	0.80	2.300	PCI/G	Radium-224
26	11/29/2005	1463972.728	597045.764	690.465		1.62	0.76	1.620	PCI/G	Radium-224
27	11/30/2005	1463987.728	597045.764	688.818		1.90	1.30	1.900	PCI/G	Radium-224
28	11/30/2005	1464002.728	597045.764	688.753		1.70	1.50	1.700	PCI/G	Radium-224
29	11/30/2005	1464017.728	597045.764	687.060		1.60	1.20	1.600	PCI/G	Radium-224
30	11/30/2005	1464032.728	597045.764	686.441		1.70	0.90	1.700	PCI/G	Radium-224
31	11/30/2005	1464047.728	597045.764	687.006		2.10	0.70	2.100	PCI/G	Radium-224
32	11/29/2005	1463950.228	597058.754	701.904		2.10	0.80	2.100	PCI/G	Radium-224
33	11/29/2005	1463965.228	597058.754	690.914		1.16	0.81	1.160	PCI/G	Radium-224
34	11/29/2005	1463980.228	597058.754	690.065		1.38	0.49	1.380	PCI/G	Radium-224
35	11/30/2005	1463995.228	597058.754	689.196		2.00	0.70	2.000	PCI/G	Radium-224
36	11/30/2005	1464010.228	597058.754	687.800		1.04	0.53	1.040	PCI/G	Radium-224
37	11/30/2005	1464025.228	597058.754	686.418	14.10		1.70		PCI/G	Radium-224
38	11/29/2005	1463957.728	597071.745	701.617		2.60	0.70	2.600	PCI/G	Radium-224
39	11/29/2005	1463972.728	597071.745	690.465		1.90	0.70	1.900	PCI/G	Radium-224
40	11/30/2005	1463987.728	597071.745	689.570		1.27	0.81	1.270	PCI/G	Radium-224
41	11/30/2005	1464002.728	597071.745	689.209		1.90	1.40	1.900	PCI/G	Radium-224
42	11/30/2005	1464017.728	597071.745	689.412	2.80		1.10		PCI/G	Radium-224
43	11/29/2005	1463950.228	597084.735	703.634		2.20	0.90	2.200	PCI/G	Radium-224
44	11/29/2005	1463965.228	597084.735	693.712		1.70	0.80	1.700	PCI/G	Radium-224
45	11/29/2005	1463980.228	597084.735	691.713		0.99	0.65	0.990	PCI/G	Radium-224
46	11/30/2005	1463995.228	597084.735	689.195		2.60	1.80	2.600	PCI/G	Radium-224
47	11/30/2005	1464010.228	597084.735	692.378		1.80	1.50	1.800	PCI/G	Radium-224
48	11/29/2005	1463957.728	597097.726	702.713		2.60	1.20	2.600	PCI/G	Radium-224
49	11/29/2005	1463972.728	597097.726	692.705		0.84	0.47	0.840	PCI/G	Radium-224
50	11/30/2005	1463987.728	597097.726	690.608		1.58	0.76	1.580	PCI/G	Radium-224
51	11/30/2005	1464002.728	597097.726	690.764		3.50	1.30	3.500	PCI/G	Radium-224
52	11/30/2005	1464017.728	597097.726	691.990	4.00		1.10		PCI/G	Radium-224
53A	1/12/2005	1463965.228	597110.716	699.585		3.40	2.30	3.400	PCI/G	Radium-224
54	12/1/2005	1463980.228	597110.716	689.535		1.90	0.90	1.900	PCI/G	Radium-224

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		2.70	1.10	2.700	PCI/G	Radium-224
56	11/30/2005	1464010.228	597110.716	693.807		2.90	0.80	2.900	PCI/G	Radium-224
57	12/1/2005	1464025.228	597110.716	702.228		2.50	1.40	2.500	PCI/G	Radium-224
58	11/29/2005	1463957.728	597123.706	704.129		1.43	0.92	1.430	PCI/G	Radium-224
59	11/29/2005	1463972.728	597123.706	699.094		2.70	0.90	2.700	PCI/G	Radium-224
60	12/1/2005	1463987.728	597123.706	696.134		2.00	1.60	2.000	PCI/G	Radium-224
61	12/1/2005	1464002.728	597123.706	703.952		1.15	0.69	1.150	PCI/G	Radium-224
62	11/29/2005	1463980.228	597136.697	707.998		2.10	1.20	2.100	PCI/G	Radium-224
							Max	**3.500**	**PCI/G**	**Radium-224**
							Std. Dev.	**0.622**	**PCI/G**	**Radium-224**
							CO	**32.400**	**PCI/G**	**Radium-224**
							HS	**97.100**	**PCI/G**	**Radium-224**

SU1:

Duplicates:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.74	0.82	0.740	PCI/G	Radium-224
49	11/29/2005	1463972.728	597097.726	692.705		1.29	0.77	1.290	PCI/G	Radium-224
53A	1/12/2005	1463965.228	597110.716	699.585		3.80	2.30	3.800	PCI/G	Radium-224
54	12/1/2005	1463980.228	597110.716	689.535		2.40	1.40	2.400	PCI/G	Radium-224

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		1.60	1.40	1.600	PCI/G	Radium-224
72	11/29/2005	1463972.694	597058.672	690.490		1.17	0.62	1.170	PCI/G	Radium-224
73	11/30/2005	1463976.359	597105.094	691.120		1.20	0.52	1.200	PCI/G	Radium-224

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.76	0.03	0.760	PCI/G	Thorium-230
2	11/29/2005	1463957.728	597019.783	697.004		1.72	0.02	1.720	PCI/G	Thorium-230
3	12/1/2005	1463972.728	597019.783	703.747		0.97	0.01	0.970	PCI/G	Thorium-230
4	11/30/2005	1463987.728	597019.783	693.035		0.78	0.03	0.780	PCI/G	Thorium-230
5	11/30/2005	1464002.728	597019.783	697.010		0.85	0.02	0.850	PCI/G	Thorium-230
6	11/30/2005	1464017.728	597019.783	690.383		1.69	0.03	1.690	PCI/G	Thorium-230
7	12/1/2005	1464032.728	597019.783	689.652		1.11	0.01	1.110	PCI/G	Thorium-230
8	11/30/2005	1464047.728	597019.783	690.374		0.77	0.04	0.770	PCI/G	Thorium-230
9	11/30/2005	1464062.728	597019.783	690.599		0.69	0.03	0.690	PCI/G	Thorium-230
10	11/30/2005	1464077.728	597019.783	691.445		1.18	0.03	1.180	PCI/G	Thorium-230
11	12/1/2005	1464122.728	597019.783	703.183		1.43	0.03	1.430	PCI/G	Thorium-230
12	12/1/2005	1464137.728	597019.783	708.625		1.13	0.03	1.130	PCI/G	Thorium-230
13	12/1/2005	1464152.728	597019.783	710.754		1.22	0.02	1.220	PCI/G	Thorium-230
14	11/29/2005	1463950.228	597032.774	697.324		1.38	0.02	1.380	PCI/G	Thorium-230
15	11/29/2005	1463965.228	597032.774	691.986		1.63	0.01	1.630	PCI/G	Thorium-230
16	11/30/2005	1463980.228	597032.774	691.857		1.44	0.04	1.440	PCI/G	Thorium-230
17	11/30/2005	1463995.228	597032.774	690.031		0.77	0.02	0.770	PCI/G	Thorium-230
18	11/30/2005	1464010.228	597032.774	689.241		1.01	0.02	1.010	PCI/G	Thorium-230
19	11/30/2005	1464025.228	597032.774	688.075		1.00	0.05	1.000	PCI/G	Thorium-230
20	11/30/2005	1464040.228	597032.774	688.067		1.01	0.03	1.010	PCI/G	Thorium-230
21	11/30/2005	1464055.228	597032.774	688.910		0.66	0.02	0.660	PCI/G	Thorium-230
22	11/30/2005	1464070.228	597032.774	689.867		1.01	0.02	1.010	PCI/G	Thorium-230
23	11/30/2005	1464085.228	597032.774	691.746	1.17		0.04		PCI/G	Thorium-230
24	12/1/2005	1464115.228	597032.774	705.731		1.12	0.01	1.120	PCI/G	Thorium-230
25	12/1/2005	1463957.728	597045.764	695.221		1.79	0.03	1.790	PCI/G	Thorium-230
26	11/29/2005	1463972.728	597045.764	690.465		1.39	0.02	1.390	PCI/G	Thorium-230
27	11/30/2005	1463987.728	597045.764	688.818		1.04	0.02	1.040	PCI/G	Thorium-230
28	11/30/2005	1464002.728	597045.764	688.753		0.88	0.06	0.880	PCI/G	Thorium-230
29	11/30/2005	1464017.728	597045.764	687.060		2.00	0.03	2.000	PCI/G	Thorium-230
30	11/30/2005	1464032.728	597045.764	686.441		1.03	0.07	1.030	PCI/G	Thorium-230
31	11/30/2005	1464047.728	597045.764	687.006		0.89	0.02	0.890	PCI/G	Thorium-230
32	11/29/2005	1463950.228	597058.754	701.904		0.93	0.06	0.930	PCI/G	Thorium-230
33	11/29/2005	1463965.228	597058.754	690.914		0.89	0.03	0.890	PCI/G	Thorium-230
34	11/29/2005	1463980.228	597058.754	690.065		0.80	0.02	0.800	PCI/G	Thorium-230
35	11/30/2005	1463995.228	597058.754	689.196		1.05	0.04	1.050	PCI/G	Thorium-230
36	11/30/2005	1464010.228	597058.754	687.800		0.94	0.07	0.940	PCI/G	Thorium-230
37	11/30/2005	1464025.228	597058.754	686.418	5.18		0.01		PCI/G	Thorium-230
38	11/29/2005	1463957.728	597071.745	701.617		1.33	0.03	1.330	PCI/G	Thorium-230
39	11/29/2005	1463972.728	597071.745	690.465		1.21	0.02	1.210	PCI/G	Thorium-230
40	11/30/2005	1463987.728	597071.745	689.570		0.86	0.03	0.860	PCI/G	Thorium-230
41	11/30/2005	1464002.728	597071.745	689.209		0.97	0.02	0.970	PCI/G	Thorium-230
42	11/30/2005	1464017.728	597071.745	689.412	2.50		0.02		PCI/G	Thorium-230
43	11/29/2005	1463950.228	597084.735	703.634		1.03	0.03	1.030	PCI/G	Thorium-230
44	11/29/2005	1463965.228	597084.735	693.712		1.12	0.01	1.120	PCI/G	Thorium-230
45	11/29/2005	1463980.228	597084.735	691.713		1.06	0.03	1.060	PCI/G	Thorium-230
46	11/30/2005	1463995.228	597084.735	689.195		1.12	0.04	1.120	PCI/G	Thorium-230
47	11/30/2005	1464010.228	597084.735	692.378		0.99	0.04	0.990	PCI/G	Thorium-230
48	11/29/2005	1463957.728	597097.726	702.713		1.27	0.02	1.270	PCI/G	Thorium-230
49	11/29/2005	1463972.728	597097.726	692.705		1.02	0.01	1.020	PCI/G	Thorium-230
50	11/30/2005	1463987.728	597097.726	690.608		1.01	0.04	1.010	PCI/G	Thorium-230
51	11/30/2005	1464002.728	597097.726	690.764		1.02	0.02	1.020	PCI/G	Thorium-230
52	11/30/2005	1464017.728	597097.726	691.990	1.69		0.03		PCI/G	Thorium-230
53A	1/12/2005	1463965.228	597110.716	699.585		1.21	0.09	1.210	PCI/G	Thorium-230
54	12/1/2005	1463980.228	597110.716	689.535		1.10	0.03	1.100	PCI/G	Thorium-230

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		1.38	0.02	1.380	PCI/G	Thorium-230
56	11/30/2005	1464010.228	597110.716	693.807		1.27	0.01	1.270	PCI/G	Thorium-230
57	12/1/2005	1464025.228	597110.716	702.228		1.16	0.02	1.160	PCI/G	Thorium-230
58	11/29/2005	1463957.728	597123.706	704.129		0.82	0.02	0.820	PCI/G	Thorium-230
59	11/29/2005	1463972.728	597123.706	699.094		1.38	0.05	1.380	PCI/G	Thorium-230
60	12/1/2005	1463987.728	597123.706	696.134		0.85	0.01	0.850	PCI/G	Thorium-230
61	12/1/2005	1464002.728	597123.706	703.952		0.90	0.03	0.900	PCI/G	Thorium-230
62	11/29/2005	1463980.228	597136.697	707.998		0.96	0.05	0.960	PCI/G	Thorium-230
							Max	**2.000**	**PCI/G**	**Thorium-230**
							Std. Dev.	**0.282**	**PCI/G**	**Thorium-230**
							CO	**2.800**	**PCI/G**	**Thorium-230**
							HS	**4.600**	**PCI/G**	**Thorium-230**

SU1:

Duplicates:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.93	0.04	0.930	PCI/G	Thorium-230
49	11/29/2005	1463972.728	597097.726	692.705		0.92	0.01	0.920	PCI/G	Thorium-230
53A	1/12/2005	1463965.228	597110.716	699.585		1.63	0.05	1.630	PCI/G	Thorium-230
54	12/1/2005	1463980.228	597110.716	689.535		0.99	0.02	0.990	PCI/G	Thorium-230

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.89	0.04	0.890	PCI/G	Thorium-230
72	11/29/2005	1463972.694	597058.672	690.490		0.89	0.04	0.890	PCI/G	Thorium-230
73	11/30/2005	1463976.359	597105.094	691.120		0.98	0.01	0.980	PCI/G	Thorium-230

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		1.48	0.03	1.480	PCI/G	Thorium-230
64	12/1/2005	1464108.226	597012.324	705.189		0.86	0.02	0.860	PCI/G	Thorium-230
65	11/30/2005	1464100.726	597025.315	695.267		1.17	0.02	1.170	PCI/G	Thorium-230
66	12/1/2005	1464094.238	597036.159	701.163	1.41		0.03		PCI/G	Thorium-230
67	11/30/2005	1464091.835	597019.553	692.932		1.00	0.02	1.000	PCI/G	Thorium-230
68	11/30/2005	1464109.333	597019.104	698.411		1.14	0.02	1.140	PCI/G	Thorium-230
							Max	**1.480**	**PCI/G**	**Thorium-230**
							Std. Dev.	**0.231**	**PCI/G**	**Thorium-230**
							CO	**2.800**	**PCI/G**	**Thorium-230**
							HS	**4.600**	**PCI/G**	**Thorium-230**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		1.13	0.01	1.130	PCI/G	Thorium-230

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		1.18	0.03	1.180	PCI/G	Thorium-230
70	11/30/2005	1464092.719	597027.063	695.267		0.91	0.02	0.910	PCI/G	Thorium-230

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.42	0.03	0.420	PCI/G	Thorium-232
2	11/29/2005	1463957.728	597019.783	697.004		0.81	0.02	0.810	PCI/G	Thorium-232
3	12/1/2005	1463972.728	597019.783	703.747		0.73	0.02	0.730	PCI/G	Thorium-232
4	11/30/2005	1463987.728	597019.783	693.035		0.32	0.03	0.317	PCI/G	Thorium-232
5	11/30/2005	1464002.728	597019.783	697.010		0.14	0.04	0.135	PCI/G	Thorium-232
6	11/30/2005	1464017.728	597019.783	690.383		0.98	0.03	0.980	PCI/G	Thorium-232
7	12/1/2005	1464032.728	597019.783	689.652		0.63	0.02	0.630	PCI/G	Thorium-232
8	11/30/2005	1464047.728	597019.783	690.374		0.35	0.03	0.350	PCI/G	Thorium-232
9	11/30/2005	1464062.728	597019.783	690.599		0.36	0.02	0.360	PCI/G	Thorium-232
10	11/30/2005	1464077.728	597019.783	691.445		1.20	0.03	1.200	PCI/G	Thorium-232
11	12/1/2005	1464122.728	597019.783	703.183		0.76	0.02	0.760	PCI/G	Thorium-232
12	12/1/2005	1464137.728	597019.783	708.625		0.81	0.01	0.810	PCI/G	Thorium-232
13	12/1/2005	1464152.728	597019.783	710.754		0.58	0.03	0.580	PCI/G	Thorium-232
14	11/29/2005	1463950.228	597032.774	697.324		1.38	0.02	1.380	PCI/G	Thorium-232
15	11/29/2005	1463965.228	597032.774	691.986		1.58	0.02	1.580	PCI/G	Thorium-232
16	11/30/2005	1463980.228	597032.774	691.857		0.53	0.04	0.530	PCI/G	Thorium-232
17	11/30/2005	1463995.228	597032.774	690.031		0.21	0.02	0.209	PCI/G	Thorium-232
18	11/30/2005	1464010.228	597032.774	689.241		0.70	0.02	0.700	PCI/G	Thorium-232
19	11/30/2005	1464025.228	597032.774	688.075		0.75	0.05	0.750	PCI/G	Thorium-232
20	11/30/2005	1464040.228	597032.774	688.067		0.44	0.01	0.440	PCI/G	Thorium-232
21	11/30/2005	1464055.228	597032.774	688.910		0.50	0.01	0.500	PCI/G	Thorium-232
22	11/30/2005	1464070.228	597032.774	689.867		0.53	0.02	0.530	PCI/G	Thorium-232
23	11/30/2005	1464085.228	597032.774	691.746	0.60		0.04		PCI/G	Thorium-232
24	12/1/2005	1464115.228	597032.774	705.731		0.80	0.02	0.800	PCI/G	Thorium-232
25	12/1/2005	1463957.728	597045.764	695.221		0.89	0.03	0.890	PCI/G	Thorium-232
26	11/29/2005	1463972.728	597045.764	690.465		1.11	0.04	1.110	PCI/G	Thorium-232
27	11/30/2005	1463987.728	597045.764	688.818		0.42	0.02	0.420	PCI/G	Thorium-232
28	11/30/2005	1464002.728	597045.764	688.753		0.66	0.06	0.660	PCI/G	Thorium-232
29	11/30/2005	1464017.728	597045.764	687.060		0.58	0.03	0.580	PCI/G	Thorium-232
30	11/30/2005	1464032.728	597045.764	686.441		0.59	0.07	0.590	PCI/G	Thorium-232
31	11/30/2005	1464047.728	597045.764	687.006		1.62	0.02	1.620	PCI/G	Thorium-232
32	11/29/2005	1463950.228	597058.754	701.904		0.67	0.04	0.670	PCI/G	Thorium-232
33	11/29/2005	1463965.228	597058.754	690.914		0.31	0.03	0.314	PCI/G	Thorium-232
34	11/29/2005	1463980.228	597058.754	690.065		0.45	0.01	0.450	PCI/G	Thorium-232
35	11/30/2005	1463995.228	597058.754	689.196		0.44	0.04	0.440	PCI/G	Thorium-232
36	11/30/2005	1464010.228	597058.754	687.800		0.41	0.07	0.410	PCI/G	Thorium-232
37	11/30/2005	1464025.228	597058.754	686.418	14.80		0.02		PCI/G	Thorium-232
38	11/29/2005	1463957.728	597071.745	701.617		0.71	0.01	0.710	PCI/G	Thorium-232
39	11/29/2005	1463972.728	597071.745	690.465		**2.39**	0.04	**2.390**	PCI/G	Thorium-232
40	11/30/2005	1463987.728	597071.745	689.570		0.32	0.03	0.322	PCI/G	Thorium-232
41	11/30/2005	1464002.728	597071.745	689.209		0.47	0.04	0.470	PCI/G	Thorium-232
42	11/30/2005	1464017.728	597071.745	689.412	4.63		0.04		PCI/G	Thorium-232
43	11/29/2005	1463950.228	597084.735	703.634		0.62	0.03	0.620	PCI/G	Thorium-232
44	11/29/2005	1463965.228	597084.735	693.712		0.52	0.02	0.520	PCI/G	Thorium-232
45	11/29/2005	1463980.228	597084.735	691.713		0.88	0.01	0.880	PCI/G	Thorium-232
46	11/30/2005	1463995.228	597084.735	689.195		0.60	0.04	0.600	PCI/G	Thorium-232
47	11/30/2005	1464010.228	597084.735	692.378		0.64	0.04	0.640	PCI/G	Thorium-232
48	11/29/2005	1463957.728	597097.726	702.713		0.89	0.03	0.890	PCI/G	Thorium-232
49	11/29/2005	1463972.728	597097.726	692.705		0.53	0.02	0.530	PCI/G	Thorium-232
50	11/30/2005	1463987.728	597097.726	690.608		0.59	0.02	0.590	PCI/G	Thorium-232
51	11/30/2005	1464002.728	597097.726	690.764		0.42	0.02	0.420	PCI/G	Thorium-232
52	11/30/2005	1464017.728	597097.726	691.990	5.16		0.01		PCI/G	Thorium-232
53A	1/12/2005	1463965.228	597110.716	699.585		0.73	0.10	0.730	PCI/G	Thorium-232
54	12/1/2005	1463980.228	597110.716	689.535		0.74	0.02	0.740	PCI/G	Thorium-232

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		**2.57**	0.02	**2.570**	PCI/G	Thorium-232
56	11/30/2005	1464010.228	597110.716	693.807		1.03	0.02	1.030	PCI/G	Thorium-232
57	12/1/2005	1464025.228	597110.716	702.228		0.37	0.02	0.374	PCI/G	Thorium-232
58	11/29/2005	1463957.728	597123.706	704.129		0.49	0.01	0.490	PCI/G	Thorium-232
59	11/29/2005	1463972.728	597123.706	699.094		1.10	0.03	1.100	PCI/G	Thorium-232
60	12/1/2005	1463987.728	597123.706	696.134		0.54	0.03	0.540	PCI/G	Thorium-232
61	12/1/2005	1464002.728	597123.706	703.952		0.48	0.04	0.480	PCI/G	Thorium-232
62	11/29/2005	1463980.228	597136.697	707.998		0.49	0.05	0.490	PCI/G	Thorium-232
							Max	**2.570**	**PCI/G**	**Thorium-232**
							Std. Dev.	**0.452**	**PCI/G**	**Thorium-232**
							CO	**2.100**	**PCI/G**	**Thorium-232**
							HS	**3.500**	**PCI/G**	**Thorium-232**

SU1:

Duplicates:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.33	0.04	0.330	PCI/G	Thorium-232
49	11/29/2005	1463972.728	597097.726	692.705		0.33	0.02	0.329	PCI/G	Thorium-232
53A	1/12/2005	1463965.228	597110.716	699.585		0.84	0.07	0.840	PCI/G	Thorium-232
54	12/1/2005	1463980.228	597110.716	689.535		1.05	0.03	1.050	PCI/G	Thorium-232

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.63	0.04	0.630	PCI/G	Thorium-232
72	11/29/2005	1463972.694	597058.672	690.490		0.34	0.02	0.335	PCI/G	Thorium-232
73	11/30/2005	1463976.359	597105.094	691.120		1.10	0.02	1.100	PCI/G	Thorium-232

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		1.06	0.03	1.060	PCI/G	Thorium-232
64	12/1/2005	1464108.226	597012.324	705.189		0.46	0.02	0.460	PCI/G	Thorium-232
65	11/30/2005	1464100.726	597025.315	695.267		0.69	0.02	0.690	PCI/G	Thorium-232
66	12/1/2005	1464094.238	597036.159	701.163	2.96		0.01		PCI/G	Thorium-232
67	11/30/2005	1464091.835	597019.553	692.932		0.65	0.03	0.650	PCI/G	Thorium-232
68	11/30/2005	1464109.333	597019.104	698.411		0.83	0.01	0.830	PCI/G	Thorium-232
							Max	**1.060**	**PCI/G**	**Thorium-232**
							Std. Dev.	**0.223**	**PCI/G**	**Thorium-232**
							CO	**2.100**	**PCI/G**	**Thorium-232**
							HS	**3.500**	**PCI/G**	**Thorium-232**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		0.82	0.02	0.820	PCI/G	Thorium-232

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		0.63	0.02	0.630	PCI/G	Thorium-232
70	11/30/2005	1464092.719	597027.063	695.267		0.53	0.02	0.530	PCI/G	Thorium-232

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.49	0.02	0.491	PCI/G	Uranium-238
2	11/29/2005	1463957.728	597019.783	697.004		0.70	0.02	0.700	PCI/G	Uranium-238
3	12/1/2005	1463972.728	597019.783	703.747		0.78	0.02	0.780	PCI/G	Uranium-238
4	11/30/2005	1463987.728	597019.783	693.035		0.58	0.01	0.580	PCI/G	Uranium-238
5	11/30/2005	1464002.728	597019.783	697.010		0.42	0.02	0.417	PCI/G	Uranium-238
6	11/30/2005	1464017.728	597019.783	690.383		0.85	0.03	0.850	PCI/G	Uranium-238
7	12/1/2005	1464032.728	597019.783	689.652		0.79	0.01	0.790	PCI/G	Uranium-238
8	11/30/2005	1464047.728	597019.783	690.374		0.68	0.03	0.680	PCI/G	Uranium-238
9	11/30/2005	1464062.728	597019.783	690.599		0.65	0.02	0.650	PCI/G	Uranium-238
10	11/30/2005	1464077.728	597019.783	691.445		1.00	0.01	1.000	PCI/G	Uranium-238
11	12/1/2005	1464122.728	597019.783	703.183		0.70	0.01	0.700	PCI/G	Uranium-238
12	12/1/2005	1464137.728	597019.783	708.625		0.81	0.01	0.810	PCI/G	Uranium-238
13	12/1/2005	1464152.728	597019.783	710.754		0.71	0.01	0.710	PCI/G	Uranium-238
14	11/29/2005	1463950.228	597032.774	697.324		0.94	0.02	0.940	PCI/G	Uranium-238
15	11/29/2005	1463965.228	597032.774	691.986		1.12	0.02	1.120	PCI/G	Uranium-238
16	11/30/2005	1463980.228	597032.774	691.857		0.70	0.01	0.700	PCI/G	Uranium-238
17	11/30/2005	1463995.228	597032.774	690.031		0.58	0.01	0.580	PCI/G	Uranium-238
18	11/30/2005	1464010.228	597032.774	689.241		0.75	0.01	0.750	PCI/G	Uranium-238
19	11/30/2005	1464025.228	597032.774	688.075		0.74	0.02	0.740	PCI/G	Uranium-238
20	11/30/2005	1464040.228	597032.774	688.067		0.66	0.03	0.660	PCI/G	Uranium-238
21	11/30/2005	1464055.228	597032.774	688.910		0.58	0.03	0.580	PCI/G	Uranium-238
22	11/30/2005	1464070.228	597032.774	689.867		0.69	0.01	0.690	PCI/G	Uranium-238
23	11/30/2005	1464085.228	597032.774	691.746	2.21		0.02		PCI/G	Uranium-238
24	12/1/2005	1464115.228	597032.774	705.731		0.71	0.02	0.710	PCI/G	Uranium-238
25	12/1/2005	1463957.728	597045.764	695.221		1.04	0.04	1.040	PCI/G	Uranium-238
26	11/29/2005	1463972.728	597045.764	690.465		0.85	0.02	0.850	PCI/G	Uranium-238
27	11/30/2005	1463987.728	597045.764	688.818		0.63	0.02	0.630	PCI/G	Uranium-238
28	11/30/2005	1464002.728	597045.764	688.753		0.74	0.02	0.740	PCI/G	Uranium-238
29	11/30/2005	1464017.728	597045.764	687.060		0.73	0.01	0.730	PCI/G	Uranium-238
30	11/30/2005	1464032.728	597045.764	686.441		0.91	0.01	0.910	PCI/G	Uranium-238
31	11/30/2005	1464047.728	597045.764	687.006		0.78	0.02	0.780	PCI/G	Uranium-238
32	11/29/2005	1463950.228	597058.754	701.904		0.73	0.01	0.730	PCI/G	Uranium-238
33	11/29/2005	1463965.228	597058.754	690.914		0.69	0.02	0.690	PCI/G	Uranium-238
34	11/29/2005	1463980.228	597058.754	690.065		0.53	0.01	0.533	PCI/G	Uranium-238
35	11/30/2005	1463995.228	597058.754	689.196		0.72	0.02	0.720	PCI/G	Uranium-238
36	11/30/2005	1464010.228	597058.754	687.800		0.67	0.02	0.670	PCI/G	Uranium-238
37	11/30/2005	1464025.228	597058.754	686.418	2.88		0.02		PCI/G	Uranium-238
38	11/29/2005	1463957.728	597071.745	701.617		0.89	0.01	0.890	PCI/G	Uranium-238
39	11/29/2005	1463972.728	597071.745	690.465		0.85	0.01	0.850	PCI/G	Uranium-238
40	11/30/2005	1463987.728	597071.745	689.570		0.62	0.01	0.620	PCI/G	Uranium-238
41	11/30/2005	1464002.728	597071.745	689.209		0.86	0.02	0.860	PCI/G	Uranium-238
42	11/30/2005	1464017.728	597071.745	689.412	1.63		0.02		PCI/G	Uranium-238
43	11/29/2005	1463950.228	597084.735	703.634		0.71	0.02	0.710	PCI/G	Uranium-238
44	11/29/2005	1463965.228	597084.735	693.712		0.88	0.01	0.880	PCI/G	Uranium-238
45	11/29/2005	1463980.228	597084.735	691.713		0.69	0.01	0.690	PCI/G	Uranium-238
46	11/30/2005	1463995.228	597084.735	689.195		1.05	0.02	1.050	PCI/G	Uranium-238
47	11/30/2005	1464010.228	597084.735	692.378		0.72	0.01	0.720	PCI/G	Uranium-238
48	11/29/2005	1463957.728	597097.726	702.713		1.00	0.02	1.000	PCI/G	Uranium-238
49	11/29/2005	1463972.728	597097.726	692.705		0.60	0.02	0.600	PCI/G	Uranium-238
50	11/30/2005	1463987.728	597097.726	690.608		0.51	0.03	0.510	PCI/G	Uranium-238
51	11/30/2005	1464002.728	597097.726	690.764		0.77	0.01	0.770	PCI/G	Uranium-238
52	11/30/2005	1464017.728	597097.726	691.990	1.01		0.01		PCI/G	Uranium-238
53A	1/12/2005	1463965.228	597110.716	699.585		0.71	0.05	0.710	PCI/G	Uranium-238
54	12/1/2005	1463980.228	597110.716	689.535		0.67	0.04	0.670	PCI/G	Uranium-238

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		1.03	0.03	1.030	PCI/G	Uranium-238
56	11/30/2005	1464010.228	597110.716	693.807		0.84	0.02	0.840	PCI/G	Uranium-238
57	12/1/2005	1464025.228	597110.716	702.228		0.87	0.03	0.870	PCI/G	Uranium-238
58	11/29/2005	1463957.728	597123.706	704.129		0.76	0.01	0.760	PCI/G	Uranium-238
59	11/29/2005	1463972.728	597123.706	699.094		1.32	0.01	1.320	PCI/G	Uranium-238
60	12/1/2005	1463987.728	597123.706	696.134		0.73	0.02	0.730	PCI/G	Uranium-238
61	12/1/2005	1464002.728	597123.706	703.952		0.65	0.01	0.650	PCI/G	Uranium-238
62	11/29/2005	1463980.228	597136.697	707.998		0.57	0.01	0.571	PCI/G	Uranium-238
							Max	**1.320**	**PCI/G**	**Uranium-238**
							Std. Dev.	**0.164**	**PCI/G**	**Uranium-238**
							CO	**2.200**	**PCI/G**	**Uranium-238**
							HS	**4.200**	**PCI/G**	**Uranium-238**

SU1:

Duplicates:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.69	0.02	0.690	PCI/G	Uranium-238
49	11/29/2005	1463972.728	597097.726	692.705		0.64	0.03	0.640	PCI/G	Uranium-238
53A	1/12/2005	1463965.228	597110.716	699.585		0.72	0.02	0.720	PCI/G	Uranium-238
54	12/1/2005	1463980.228	597110.716	689.535		0.65	0.02	0.650	PCI/G	Uranium-238

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.65	0.02	0.650	PCI/G	Uranium-238
72	11/29/2005	1463972.694	597058.672	690.490		0.67	0.01	0.670	PCI/G	Uranium-238
73	11/30/2005	1463976.359	597105.094	691.120		1.40	0.03	1.400	PCI/G	Uranium-238

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		0.84	0.03	0.840	PCI/G	Uranium-238
64	12/1/2005	1464108.226	597012.324	705.189		0.79	0.02	0.790	PCI/G	Uranium-238
65	11/30/2005	1464100.726	597025.315	695.267		1.00	0.01	1.000	PCI/G	Uranium-238
66	12/1/2005	1464094.238	597036.159	701.163	0.96		0.01		PCI/G	Uranium-238
67	11/30/2005	1464091.835	597019.553	692.932		0.97	0.02	0.970	PCI/G	Uranium-238
68	11/30/2005	1464109.333	597019.104	698.411		0.64	0.01	0.640	PCI/G	Uranium-238
							Max	**1.000**	**PCI/G**	**Uranium-238**
							Std. Dev.	**0.145**	**PCI/G**	**Uranium-238**
							CO	**2.200**	**PCI/G**	**Uranium-238**
							HS	**4.200**	**PCI/G**	**Uranium-238**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		0.84	0.02	0.840	PCI/G	Uranium-238

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		0.83	0.03	0.830	PCI/G	Uranium-238
70	11/30/2005	1464092.719	597027.063	695.267		1.00	0.02	1.000	PCI/G	Uranium-238

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PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
1	11/29/2005	1463942.728	597019.783	702.064		0.59	1.30	0.590	PCI/G	Protactinium-231
2	11/29/2005	1463957.728	597019.783	697.004		0.85	1.70	0.850	PCI/G	Protactinium-231
3	12/1/2005	1463972.728	597019.783	703.747		0.89	1.20	0.890	PCI/G	Protactinium-231
4	11/30/2005	1463987.728	597019.783	693.035		0.52	1.20	0.520	PCI/G	Protactinium-231
5	11/30/2005	1464002.728	597019.783	697.010		0.40	0.93	0.400	PCI/G	Protactinium-231
6	11/30/2005	1464017.728	597019.783	690.383		1.82	1.80	1.820	PCI/G	Protactinium-231
7	12/1/2005	1464032.728	597019.783	689.652		0.17	1.10	0.170	PCI/G	Protactinium-231
8	11/30/2005	1464047.728	597019.783	690.374		0.64	1.60	0.640	PCI/G	Protactinium-231
9	11/30/2005	1464062.728	597019.783	690.599		1.54	1.80	1.540	PCI/G	Protactinium-231
10	11/30/2005	1464077.728	597019.783	691.445		2.00	2.00	2.000	PCI/G	Protactinium-231
11	12/1/2005	1464122.728	597019.783	703.183		0.74	1.50	0.740	PCI/G	Protactinium-231
12	12/1/2005	1464137.728	597019.783	708.625		1.56	1.40	1.560	PCI/G	Protactinium-231
13	12/1/2005	1464152.728	597019.783	710.754		0.85	1.30	0.850	PCI/G	Protactinium-231
14	11/29/2005	1463950.228	597032.774	697.324		1.30	1.70	1.300	PCI/G	Protactinium-231
15	11/29/2005	1463965.228	597032.774	691.986		1.51	1.30	1.510	PCI/G	Protactinium-231
16	11/30/2005	1463980.228	597032.774	691.857		0.82	1.00	0.820	PCI/G	Protactinium-231
17	11/30/2005	1463995.228	597032.774	690.031		0.35	1.20	0.350	PCI/G	Protactinium-231
18	11/30/2005	1464010.228	597032.774	689.241		0.83	1.30	0.830	PCI/G	Protactinium-231
19	11/30/2005	1464025.228	597032.774	688.075		0.56	1.70	0.560	PCI/G	Protactinium-231
20	11/30/2005	1464040.228	597032.774	688.067		1.30	2.20	1.300	PCI/G	Protactinium-231
21	11/30/2005	1464055.228	597032.774	688.910		0.72	1.00	0.720	PCI/G	Protactinium-231
22	11/30/2005	1464070.228	597032.774	689.867		0.33	1.20	0.330	PCI/G	Protactinium-231
23	11/30/2005	1464085.228	597032.774	691.746	1.20		2.00		PCI/G	Protactinium-231
24	12/1/2005	1464115.228	597032.774	705.731		0.18	1.30	0.180	PCI/G	Protactinium-231
25	12/1/2005	1463957.728	597045.764	695.221		1.24	1.50	1.240	PCI/G	Protactinium-231
26	11/29/2005	1463972.728	597045.764	690.465		1.50	1.50	1.500	PCI/G	Protactinium-231
27	11/30/2005	1463987.728	597045.764	688.818		0.95	1.70	0.950	PCI/G	Protactinium-231
28	11/30/2005	1464002.728	597045.764	688.753		1.30	2.20	1.300	PCI/G	Protactinium-231
29	11/30/2005	1464017.728	597045.764	687.060		1.40	1.90	1.400	PCI/G	Protactinium-231
30	11/30/2005	1464032.728	597045.764	686.441		0.45	1.10	0.450	PCI/G	Protactinium-231
31	11/30/2005	1464047.728	597045.764	687.006		1.82	1.50	1.820	PCI/G	Protactinium-231
32	11/29/2005	1463950.228	597058.754	701.904		0.30	1.60	0.300	PCI/G	Protactinium-231
33	11/29/2005	1463965.228	597058.754	690.914		0.42	1.10	0.420	PCI/G	Protactinium-231
34	11/29/2005	1463980.228	597058.754	690.065		0.53	0.99	0.530	PCI/G	Protactinium-231
35	11/30/2005	1463995.228	597058.754	689.196		1.16	1.30	1.160	PCI/G	Protactinium-231
36	11/30/2005	1464010.228	597058.754	687.800		0.72	1.00	0.720	PCI/G	Protactinium-231
37	11/30/2005	1464025.228	597058.754	686.418	13.50		3.90		PCI/G	Protactinium-231
38	11/29/2005	1463957.728	597071.745	701.617		0.18	1.30	0.180	PCI/G	Protactinium-231
39	11/29/2005	1463972.728	597071.745	690.465		2.39	1.60	2.390	PCI/G	Protactinium-231
40	11/30/2005	1463987.728	597071.745	689.570		1.30	1.60	1.300	PCI/G	Protactinium-231
41	11/30/2005	1464002.728	597071.745	689.209		0.70	1.90	0.700	PCI/G	Protactinium-231
42	11/30/2005	1464017.728	597071.745	689.412	2.80		2.50		PCI/G	Protactinium-231
43	11/29/2005	1463950.228	597084.735	703.634		1.11	1.70	1.110	PCI/G	Protactinium-231
44	11/29/2005	1463965.228	597084.735	693.712		0.19	0.94	0.190	PCI/G	Protactinium-231
45	11/29/2005	1463980.228	597084.735	691.713		0.98	1.40	0.980	PCI/G	Protactinium-231
46	11/30/2005	1463995.228	597084.735	689.195		0.40	2.10	0.400	PCI/G	Protactinium-231
47	11/30/2005	1464010.228	597084.735	692.378		0.20	2.00	0.200	PCI/G	Protactinium-231
48	11/29/2005	1463957.728	597097.726	702.713		1.32	1.50	1.320	PCI/G	Protactinium-231
49	11/29/2005	1463972.728	597097.726	692.705		0.24	0.84	0.240	PCI/G	Protactinium-231
50	11/30/2005	1463987.728	597097.726	690.608		0.80	1.50	0.800	PCI/G	Protactinium-231
51	11/30/2005	1464002.728	597097.726	690.764		1.32	1.60	1.320	PCI/G	Protactinium-231
52	11/30/2005	1464017.728	597097.726	691.990	3.90		2.60		PCI/G	Protactinium-231
53A	1/12/2005	1463965.228	597110.716	699.585		0.70	2.70	0.700	PCI/G	Protactinium-231
54	12/1/2005	1463980.228	597110.716	689.535		1.10	2.00	1.100	PCI/G	Protactinium-231

PRS 11 Off Site Data from STL St. Louis

SU1:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
55	11/30/2005	1463995.228	597110.716	691.604		1.20	1.50	1.200	PCI/G	Protactinium-231
56	11/30/2005	1464010.228	597110.716	693.807		1.40	1.70	1.400	PCI/G	Protactinium-231
57	12/1/2005	1464025.228	597110.716	702.228		0.97	1.70	0.970	PCI/G	Protactinium-231
58	11/29/2005	1463957.728	597123.706	704.129		0.36	1.20	0.360	PCI/G	Protactinium-231
59	11/29/2005	1463972.728	597123.706	699.094		1.80	1.90	1.800	PCI/G	Protactinium-231
60	12/1/2005	1463987.728	597123.706	696.134		0.40	1.90	0.400	PCI/G	Protactinium-231
61	12/1/2005	1464002.728	597123.706	703.952		0.63	1.20	0.630	PCI/G	Protactinium-231
62	11/29/2005	1463980.228	597136.697	707.998		0.06	1.50	0.060	PCI/G	Protactinium-231
							Max	**2.390**	**PCI/G**	**Protactinium-231**
							Std. Dev.	**0.536**	**PCI/G**	**Protactinium-231**
							CO	**4.000**	**PCI/G**	**Protactinium-231**
							HS	**11.810**	**PCI/G**	**Protactinium-231**

SU1:

Duplicates:

Short ID	Date Taken	X Coord	Y Coord	Elev.	Buffer Zone Result	Result	MDC	Used	Unit	Isotope
17	11/30/2005	1463995.228	597032.774	690.031		0.21	1.40	0.210	PCI/G	Protactinium-231
49	11/29/2005	1463972.728	597097.726	692.705		0.15	0.93	0.150	PCI/G	Protactinium-231
53A	1/12/2005	1463965.228	597110.716	699.585		1.60	2.90	1.600	PCI/G	Protactinium-231
54	12/1/2005	1463980.228	597110.716	689.535		1.44	1.70	1.440	PCI/G	Protactinium-231

SU1:

Bias Locations:

71	11/30/2005	1463968.419	597026.146	697.866		0.90	1.90	0.900	PCI/G	Protactinium-231
72	11/29/2005	1463972.694	597058.672	690.490		0.13	0.79	0.130	PCI/G	Protactinium-231
73	11/30/2005	1463976.359	597105.094	691.120		0.15	0.96	0.150	PCI/G	Protactinium-231

SU2:

63	11/30/2005	1464093.226	597012.324	696.566		1.80	2.20	1.800	PCI/G	Protactinium-231
64	12/1/2005	1464108.226	597012.324	705.189		1.46	1.30	1.460	PCI/G	Protactinium-231
65	11/30/2005	1464100.726	597025.315	695.267		1.20	2.00	1.200	PCI/G	Protactinium-231
66	12/1/2005	1464094.238	597036.159	701.163	4.40		2.80		PCI/G	Protactinium-231
67	11/30/2005	1464091.835	597019.553	692.932		1.14	1.30	1.140	PCI/G	Protactinium-231
68	11/30/2005	1464109.333	597019.104	698.411		0.90	2.10	0.900	PCI/G	Protactinium-231
							Max	**1.800**	**PCI/G**	**Protactinium-231**
							Std. Dev.	**0.343**	**PCI/G**	**Protactinium-231**
							CO	**4.000**	**PCI/G**	**Protactinium-231**
							HS	**11.810**	**PCI/G**	**Protactinium-231**

SU2:

Duplicates:

68	11/30/2005	1464109.333	597019.104	698.411		1.00	1.50	1.000	PCI/G	Protactinium-231

SU2:

Bias Locations:

69	11/30/2005	1464100.965	597018.969	692.932		0.92	1.60	0.920	PCI/G	Protactinium-231
70	11/30/2005	1464092.719	597027.063	695.267		0.39	1.70	0.390	PCI/G	Protactinium-231

Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
0.102	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)
0.362	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)
0.536	Pa-231+D	4	(pCi/g)
0.622	Ra-224	32.38	(pCi/g)
0.190	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.282	Th-230+D	2.8	(pCi/g)
0.452	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)
0.164	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
0.010	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1-alpha}$	1.645		
Type II Error	0.2		
Z_{1-beta}	0.842		
Effective	0.30	*(s)*	
Sign p	0.945201		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.30
Rel Shift	1.690
(N)	10.00

Th-230 Area Factor (N) 400

(Main Contributor)

Table D in Std. VSAP not available to obtain area for N calculation for Th-230 (SMDC 461.7)
Area for N calculation based upon Pu-238 (SMDC 350), which is the best match

Sample Grid Spacing

SU Area	1,084.25	m^2
Grid Length	9.7	m
Grid Height	8.4	m

Sample Grid Spacing

SU Area	11,658.61	ft^2
Grid Length	31.8	ft
Grid Height	27.5	ft

Default 15-foot Triangular Grid to be used

PRS	11

Survey Unit	SU1

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PRS 11 SU1 Th-232 Sign Test

ID	X (Easting)	Y (Northing)	Activity (pCi/g) Th-232	CO-Meas	Sign Test
SU1-PRS11-001	1463942.728	597019.783	0.42	1.680	1
SU1-PRS11-002	1463957.728	597019.783	0.81	1.290	1
SU1-PRS11-003	1463972.728	597019.783	0.73	1.370	1
SU1-PRS11-004	1463987.728	597019.783	0.32	1.783	1
SU1-PRS11-005	1464002.728	597019.783	0.14	1.965	1
SU1-PRS11-006	1464017.728	597019.783	0.98	1.120	1
SU1-PRS11-007	1464032.728	597019.783	0.63	1.470	1
SU1-PRS11-008	1464047.728	597019.783	0.35	1.750	1
SU1-PRS11-009	1464062.728	597019.783	0.36	1.740	1
SU1-PRS11-010	1464077.728	597019.783	1.20	0.900	1
SU1-PRS11-011	1464122.728	597019.783	0.76	1.340	1
SU1-PRS11-012	1464137.728	597019.783	0.81	1.290	1
SU1-PRS11-013	1464152.728	597019.783	0.58	1.520	1
SU1-PRS11-014	1463950.228	597032.774	1.38	0.720	1
SU1-PRS11-015	1463965.228	597032.774	1.58	0.520	1
SU1-PRS11-016	1463980.228	597032.774	0.53	1.570	1
SU1-PRS11-017	1463995.228	597032.774	0.21	1.891	1
SU1-PRS11-018	1464010.228	597032.774	0.70	1.400	1
SU1-PRS11-019	1464025.228	597032.774	0.75	1.350	1
SU1-PRS11-020	1464040.228	597032.774	0.44	1.660	1
SU1-PRS11-021	1464055.228	597032.774	0.50	1.600	1
SU1-PRS11-022	1464070.228	597032.774	0.53	1.570	1
SU1-PRS11-023	1464085.228	597032.774	Buffer Sample Th-232 > CO, Omitted from data set		
SU1-PRS11-024	1464115.228	597032.774	0.80	1.300	1
SU1-PRS11-025	1463957.728	597045.764	0.89	1.210	1
SU1-PRS11-026	1463972.728	597045.764	1.11	0.990	1
SU1-PRS11-027	1463987.728	597045.764	0.42	1.680	1
SU1-PRS11-028	1464002.728	597045.764	0.66	1.440	1
SU1-PRS11-029	1464017.728	597045.764	0.58	1.520	1
SU1-PRS11-030	1464032.728	597045.764	0.59	1.510	1
SU1-PRS11-031	1464047.728	597045.764	1.62	0.480	1
SU1-PRS11-032	1463950.228	597058.754	0.67	1.430	1
SU1-PRS11-033	1463965.228	597058.754	0.31	1.786	1
SU1-PRS11-034	1463980.228	597058.754	0.45	1.650	1
SU1-PRS11-035	1463995.228	597058.754	0.44	1.660	1
SU1-PRS11-036	1464010.228	597058.754	0.41	1.690	1
SU1-PRS11-037	1464025.228	597058.754	Buffer Sample Th-232 > CO, Omitted from data set		
SU1-PRS11-038	1463957.728	597071.745	0.71	1.390	1
SU1-PRS11-039	1463972.728	597071.745	**2.39**	-0.290	Negative
SU1-PRS11-040	1463987.728	597071.745	0.32	1.778	1
SU1-PRS11-041	1464002.728	597071.745	0.47	1.630	1
SU1-PRS11-042	1464017.728	597071.745	Buffer Sample Th-232 > CO, Omitted from data set		
SU1-PRS11-043	1463950.228	597084.735	0.62	1.480	1
SU1-PRS11-044	1463965.228	597084.735	0.52	1.580	1
SU1-PRS11-045	1463980.228	597084.735	0.88	1.220	1
SU1-PRS11-046	1463995.228	597084.735	0.60	1.500	1
SU1-PRS11-047	1464010.228	597084.735	0.64	1.460	1
SU1-PRS11-048	1463957.728	597097.726	0.89	1.210	1
SU1-PRS11-049	1463972.728	597097.726	0.53	1.570	1
SU1-PRS11-050	1463987.728	597097.726	0.59	1.510	1

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PRS 11 SU1 Th-232 Sign Test (Cont.)

ID	X (Easting)	Y (Northing)	Activity (pCi/g) Th-232	CO-Meas	Sign Test
SU1-PRS11-051	1464002.728	597097.726	0.42	1.680	1
SU1-PRS11-052	1464017.728	597097.726	Buffer Sample Th-232 > CO, Omitted from data set		
SU1-PRS11-053A	1463965.228	597110.716	0.73	1.370	1
SU1-PRS11-054	1463980.228	597110.716	0.74	1.360	1
SU1-PRS11-055	1463995.228	597110.716	**2.57**	-0.470	Negative
SU1-PRS11-056	1464010.228	597110.716	1.03	1.070	1
SU1-PRS11-057	1464025.228	597110.716	0.37	1.726	1
SU1-PRS11-058	1463957.728	597123.706	0.49	1.610	1
SU1-PRS11-059	1463972.728	597123.706	1.10	1.000	1
SU1-PRS11-060	1463987.728	597123.706	0.54	1.560	1
SU1-PRS11-061	1464002.728	597123.706	0.48	1.620	1
SU1-PRS11-062	1463980.228	597136.697	0.49	1.610	1

Average:	0.72
Std. Deviation:	0.45
Median:	0.60
Maximum:	2.57
Cleanup Obj.:	2.10
Hot Spot:	3.5
N:	58
Sum:	56
k Crit	36
P/F	**PASS**

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PRS 11 SU1 Th-232 Pro UCL

Data File PRS 11 Variable: SU1 Th-232

Raw Statistics	
Number of Valid Samples	58
Number of Unique Samples	46
Minimum	0.14
Maximum	2.57
Mean	0.720345
Median	0.595
Standard Deviation	0.451881
Variance	0.204196
Coefficient of Variation	0.627312
Skewness	2.356255

Gamma Statistics	
k hat	3.643029
k star (bias corrected)	3.466091
Theta hat	0.197732
Theta star	0.207826
nu hat	422.5914
nu star	402.0665
Approx.Chi Square Value (.05)	356.5781
Adjusted Level of Significance	0.045862
Adjusted Chi Square Value	355.4923

Log-transformed Statistics	
Minimum of log data	-1.96611
Maximum of log data	0.943906
Mean of log data	-0.47151
Standard Deviation of log data	0.524494
Variance of log data	0.275094

PASS - 95% UCL < CO (2.1 pCi/g)

RECOMMENDATION
Data are lognormal (0.05)

Use H-UCL

Normal Distribution Test	
Lilliefors Test Statisitic	0.197226
Lilliefors 5% Critical Value	0.116337
Data not normal at 5% significance level	

95% UCL (Assuming Normal Distribution)	
Student's-t UCL	0.819554

Gamma Distribution Test	
A-D Test Statistic	1.141368
A-D 5% Critical Value	0.755066
K-S Test Statistic	0.11959
K-S 5% Critical Value	0.117399
Data do not follow gamma distribution	
at 5% significance level	

95% UCLs (Assuming Gamma Distribution)	
Approximate Gamma UCL	0.812239
Adjusted Gamma UCL	0.81472

Lognormal Distribution Test	
Lilliefors Test Statisitic	0.085381
Lilliefors 5% Critical Value	0.116337
Data are lognormal at 5% significance level	

95% UCLs (Assuming Lognormal Distribution)	
95% H-UCL	**0.816075**
95% Chebyshev (MVUE) UCL	0.940692
97.5% Chebyshev (MVUE) UCL	1.03871
99% Chebyshev (MVUE) UCL	1.231247

95% Non-parametric UCLs	
CLT UCL	0.817942
Adj-CLT UCL (Adjusted for skewness)	0.837557
Mod-t UCL (Adjusted for skewness)	0.822614
Jackknife UCL	0.819554
Standard Bootstrap UCL	0.81811
Bootstrap-t UCL	0.848629
Hall's Bootstrap UCL	0.857227
Percentile Bootstrap UCL	0.822759
BCA Bootstrap UCL	0.826207
95% Chebyshev (Mean, Sd) UCL	0.97898
97.5% Chebyshev (Mean, Sd) UCL	1.090891
99% Chebyshev (Mean, Sd) UCL	1.310719

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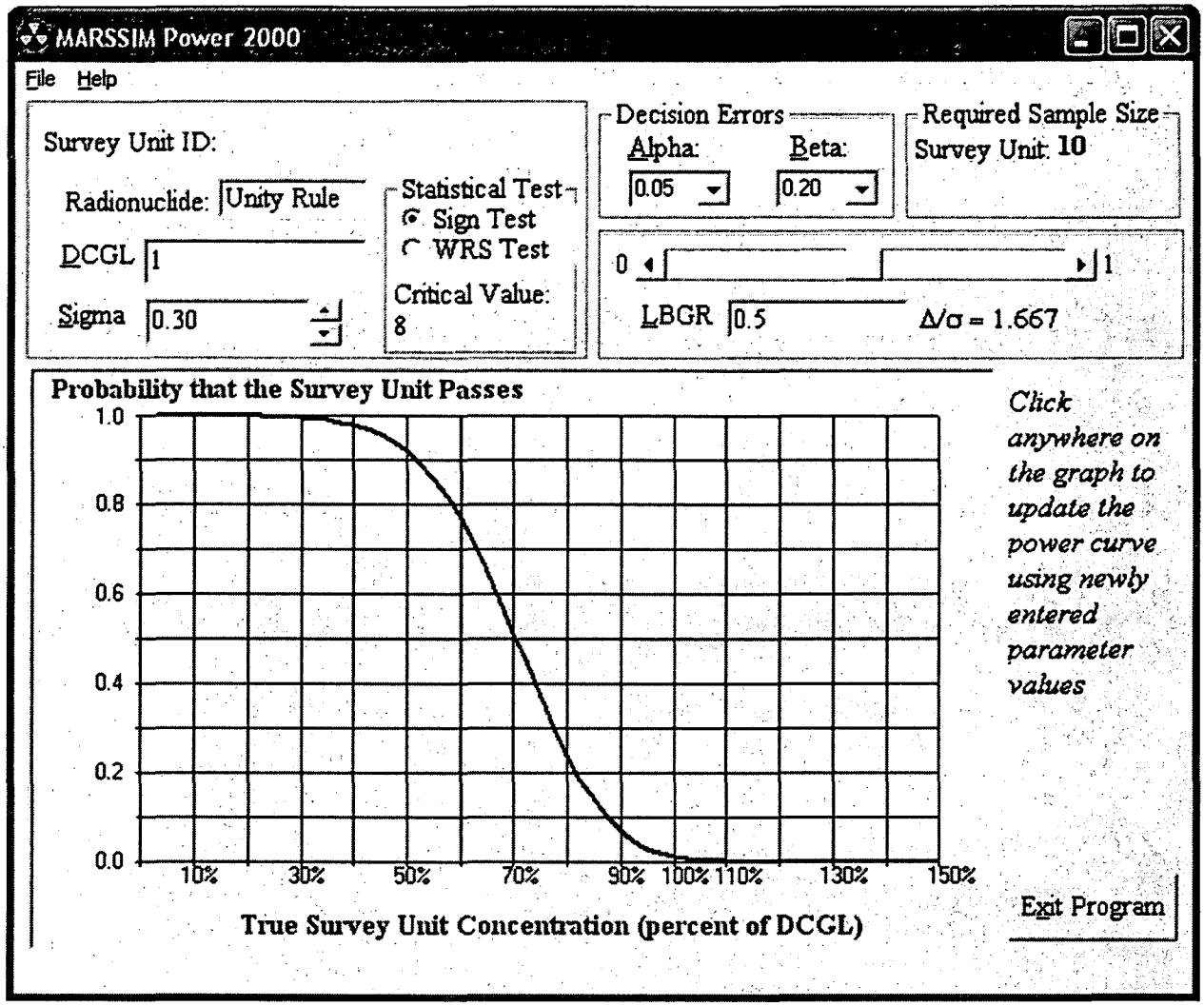
PRS11 SU1 Retrospective Power Curve



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Sample Standard Deviation (s)	Radionuclide	Cleanup Objective	Units
0.154	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)
0.244	Pb-210+D	7.4	(pCi/g)
	Np-237+D	10.4	(pCi/g)
	Ni-95	2.5	(pCi/g)
2.151	Pu-238	55	(pCi/g)
	Pu-239/240	62	(pCi/g)
0.343	Pa-231+D	4	(pCi/g)
	Ra-224	32.38	(pCi/g)
0.143	Ra-226+D	2.9	(pCi/g)
	Ra-228	2.1	(pCi/g)
	Th-228+D	2.6	(pCi/g)
0.231	Th-230+D	2.8	(pCi/g)
0.223	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)
0.145	U-238+D	2.2	(pCi/g)
	Bi-207	1.2	(pCi/g)
0.015	Bi-210m	8.3	(pCi/g)
	Tc-99	2140	(pCi/g)
	Sr-90	94.72	(pCi/g)

Type I Error	0.05		
$Z_{1-alpha}$	1.645		
Type II Error	0.2		
Z_{1-beta}	0.842		
Effective	0.19	*(s)*	
Sign p	0.993790		

Calculate the Total Effective (s)

Estimate (N) - Sign Test

DCGL	1
LBGR	0.50
Delta	0.50
(s)	0.19
Rel Shift	2.637
(N)	8.00

Pu-238 Area Factor (N) 20

(Main Contributor)

Special Considerations for Small Area (<100 m^2) - Six (6) Locations

Sample Grid Spacing

SU Area	55.01	m^2
Grid Length	2.4	m
Grid Height	2.1	m

Sample Grid Spacing

SU Area	591.49	ft^2
Grid Length	8.0	ft
Grid Height	6.9	ft

Default 15-foot Triangular Grid to be used

PRS 11

Survey Unit SU2

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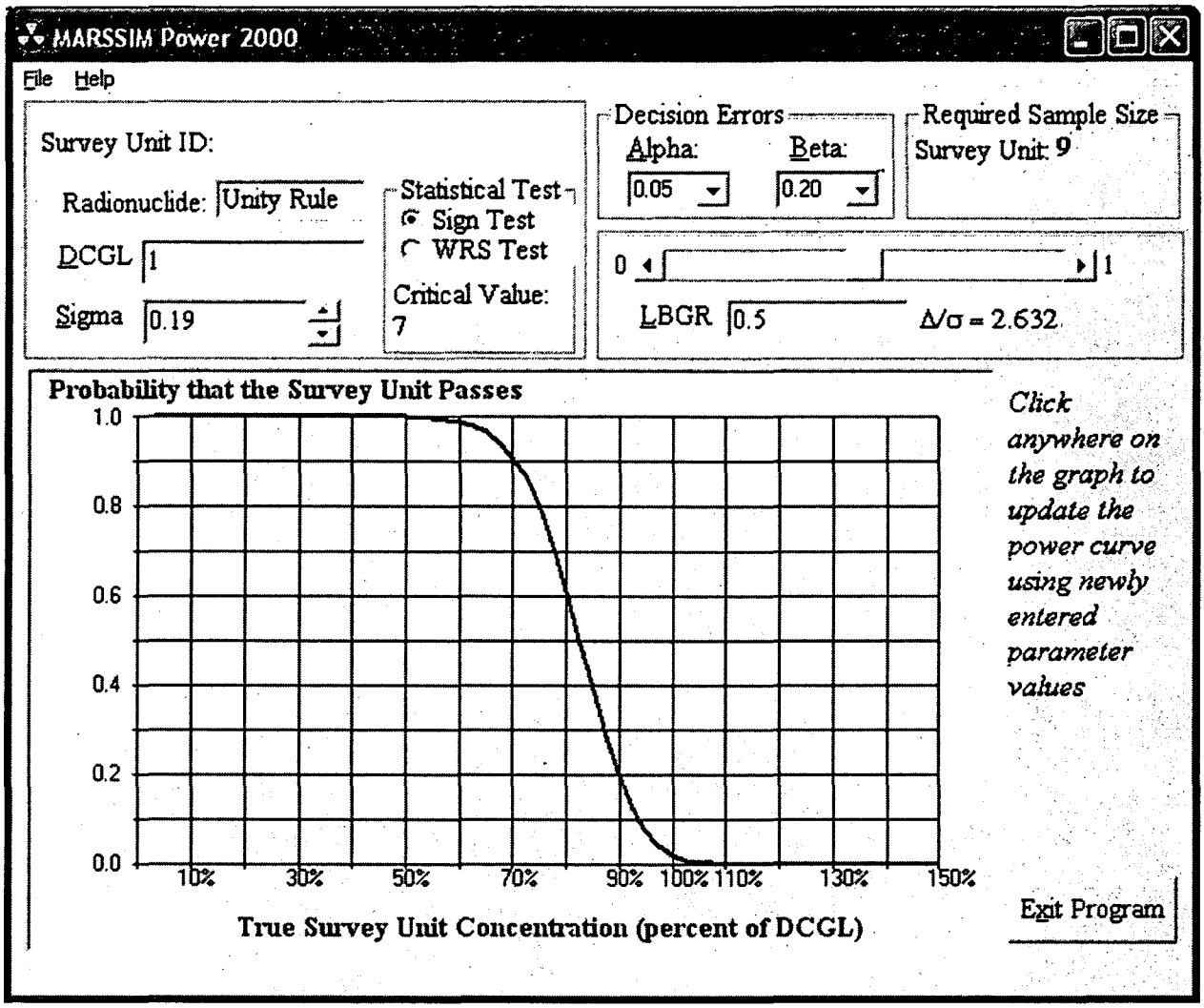
PRS11 SU2 Retrospective Power Curve



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APPENDIX E

DATA REVIEW & VALIDATION

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Review & Validation Report

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Acronyms and Abbreviations

DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FDRPD	Field Duplicate Relative Percent Difference
LDRPD	Laboratory Duplicate Relative Percent Difference
MDA	minimum detectable activity
MDC	minimum detectable concentration
MEIMS	Mound Environmental Information Management System
MS	matrix spike
MSD	Matrix spike duplicate
PRS	potential release site
RPD	relative percent difference
SOW	Statement of Work
SUD	survey unit design
USEPA	United States Environmental Protection Agency
VSAP	Verification Sampling and Analysis Plan

1.0 Introduction

1.1 Introduction

This data assessment report has been prepared to describe the data quality for Potential Release Site (PRS) 11 Verification data. 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. Data validation is a detailed review of the laboratory data packages, which include 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. Data validation was performed on 10% of the samples. The results of the data validation are assessed to identify whether any systemic problems are apparent.

2.0 Field Work Quality Assurance

2.1 Work Plan Compliance

Work was generally performed in compliance with the Survey Unit Design (SUD) received by email on 14 November 2005 and the Mound Method Compendium. The following exceptions to the work plan compliance occurred during the field sampling events (Table 1).

Table 1 — List of Variances

Variance	Description
1	**Field Sampling — December 2005** The original SUD projected 68 samples for gamma spectrometry, isotopic thorium, and isotopic uranium analysis, and 6 samples for isotopic plutonium analysis. During the field event, 73 samples were collected for gamma spectrometry, isotopic thorium, and isotopic plutonium analysis, and 12 samples were collected for isotopic plutonium analysis. The additional samples were the results of OEPA bias samples specified in the field during sample collection.
2	**Laboratory Reporting — January 2006** The laboratory did not originally report Pa-231. Pa-231 was added as an analyte of concern per the SUD submitted by Mark Spivey to Weston on 11/14/05. The laboratory was requested to report the analyte on 4 January 06. The data was re-processed and

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Table 1 — List of Variances	
Variance	**Description**
	reported by the laboratory with Pa-231 on 1/11/06. All results were less than 4 pCi/g – the site action limit, except for samples PRS11-0-01-037-000003 and PRS11-0-01-066-000006. No re-analyses were requested.
3	**Re-sampling – January 2006** One grid in PRS 11 failed to meet criteria. The grid was further remediated, and CH2M Hill collected two verification samples and a field duplicate from the remediated grid on 12 January 2006. The data from the re-verification sample has also been incorporated into this report.
4	**Missing Gamma Replicate Data – January 2006** Per the gamma spectrometry method (A-015), a sample specified as MS/MSD must be analyzed in replicate by the laboratory. The laboratory is not required to perform an MS/MSD on the gamma fraction. The laboratory failed to provide the replicate data and was notified to correct the deficiency. The missing data were received on 23 January 2006.
5	**Deficient Plutonium Matrix Spike/Matrix Spike Duplicate – January 2006** The matrix spike/matrix spike duplicate results for plutonium-238 in sample 000062 were far below the acceptance limit. The laboratory attributed the low recovery to the sample matrix. The laboratory was requested to re-prepare and re-analyze the plutonium matrix spikes on sample 000062 to demonstrate the deficiency could be attributed to matrix interference. The re-analysis data was received on 23 January 2006 and did not confirm the matrix interference. The laboratory was ordered to evaluate the deficiency and then to analyze several samples in replicate.

2.2 Field Quality Control Frequency – Verification Sampling

The field sampling team is responsible for introducing or specifying field quality control samples, e.g., field rinsates, field duplicates, matrix spike/matrix spike duplicates, and trip blanks. There were two field sampling events during the PRS 11 field verification project. The first round of samples was collected by Weston Solutions, Inc. between 29 November 2005 and 1 December 2005, inclusively. A second, hot spot remediation verification sampling event occurred on 12 January 2006 with the samples collected by CH2M Hill. The results of both sampling events are discussed in this report. The field quality control frequencies required for PRS 11 are as follows:

- Field rinsates will be collected at a frequency of 1 per 20 samples.

  Dedicated sampling equipment was used for the collection of the soil samples and no field rinsates were required.

- Field duplicates will be collected at a frequency of 1 per 20 samples.

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- Matrix spike/matrix spike duplicates will be collected at a frequency of 1 per 20 samples.

The compliance with field quality control frequencies is assessed in the following subsections.

2.2.1 December Sampling Event

The field quality assurance frequencies (Table 2) were met or exceeded for the project.

Table 2 — December Sampling Event Quality Control Sample Frequency

Analysis	Number of Samples	Field Rinsates	Field Duplicates	Matrix Spikes	Trip Blanks
Isotopic Thorium	73	NA	4	4	NA
Isotopic Uranium	73	NA	4	4	NA
Isotopic Plutonium	12	NA	1	1	NA
Gamma Spectrometry	73	NA	4	4	NA

NA: not applicable

2.2.2 January Sampling Event

Samples PRS 11 SU1-53A and PRS 11 SU1-53AFD were submitted as verification samples for radiological analysis. The field quality control frequency (Table 3) was met or exceeded.

Table 3 — January Sampling Event Quality Control Sample Frequency

Analysis	Number of Samples	Field Rinsates	Field Duplicates	Matrix Spikes[1]	Trip Blanks
Isotopic Thorium	1	NA	1	0	NA
Isotopic Uranium	1	NA	1	0	NA
Gamma Spectrometry	1	NA	1	0	NA

[1] Matrix spike frequency met as part of the first sampling event.

3.0 Data Review and Data Validation

3.1 Data Review

The quality control data submitted with the analytical data packages were reviewed and assessed. The results of the assessment are presented in this section. The following qualifications (Table 4) were used to indicate data quality problems identified during the

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data review process. The qualifications are essentially the same as those used for data validation.

Table 4 — Data Review Qualifications

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

3.1.1 Radiological Analysis

The field team submitted samples for isotopic thorium analysis. Table 5 shows the number of samples submitted for analysis.

Table 5 — Radiological Sample Quantities

Analysis	Number of Samples (Dec.)	Number of Samples (Jan.)
Isotopic Thorium	73	1
Isotopic Uranium	73	1
Isotopic Plutonium	12	0
Gamma Spectrometry	73	1

Data review elements, including yields, matrix spikes, laboratory blanks, laboratory duplicates, field rinsates, and field duplicates, are evaluated in the following subsections.

3.1.1.1 Yields

Yields were determined for isotopic thorium, isotopic uranium, and isotopic plutonium analyses by alpha spectrometry, and are used to assess and adjust for analytical inefficiencies that occur during sample preparation and analysis. The thorium yields ranged from 32% in sample 000036 to 102% in sample 000002, with an average recovery of 76%. The uranium yields ranged from 37% in samples 000009 and 000028 to 110% in sample 000022, with an average recovery of 95%. The plutonium yields ranged from 90% in sample 000015 to 103% in sample 000009, with an average recovery of 97%. These recoveries were all within the acceptance range of 20 – 120%.

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3.1.1.2 Matrix Spikes

Matrix spikes (MSs) are prepared to verify that the sample matrix is not interfering with the accurate and precise determination of target parameters. Four matrix spike samples were specified by the field team: 000020, 000041, 000066, and 000077. Only sample 000062 was submitted for isotopic plutonium MS/MSD analysis. Table 6 lists by spike compound the number of spikes, the lowest recovery, the highest recovery, and the average.

Table 6 — Radiological Matrix Spike Results

Sample	No. of Spikes	Low Recovery (%)	High Recovery (%)	Average (%)
Plutonium-238	1	-20	-18	-19
Plutonium-239	1	99	114	106
Thorium-228	4	81	110	100
Thorium-230	4	66	106	83
Thorium-232	4	86	117	108
Uranium-234	4	92	104	97
Uranium-238	4	87	99	95

The laboratory reported a matrix interference problem that impacted the plutonium-238 results. The laboratory was requested to re-prepare and re-analyze the matrix spike sample for plutonium-238 to confirm the matrix spike interference. The result of the re-analysis (67%, 80%) did not support that the low plutonium-238 recovery was due to matrix interference. An examination of the plutonium spike data showed the following:

- The spike activity was not significantly greater than the sample activity, e.g., 1.49 pCi/g was spiked into a sample concentration of 5.4 pCi/g. Because the spike activity is much smaller than the sample activity, the possibility of erratic spike results is greater.

- The re-analysis of the sample, matrix spike, and matrix spike duplicate identified that the sample activity for plutonium-238 is probably less than 5.40 pCi/g and contributed to the calculated low recovery.

As a result of the matrix spike and the re-analyzed matrix spike results not matching, the laboratory was requested to re-analyze 000062 a third time and also re-analyze two

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other samples submitted for plutonium (10%). The re-analyses were assessed for comparability of the data as shown in Table 7.

Table 7 — Plutonium Comparability

Sample ID	Plutonium-238		
	Original (pCi/g)	Re-analysis (pCi/g)	RPD (%)
000062	5.4	3.17	26.02
000063	4.7	3.51	14.49
000069	34	44.8	13.71

RPD: relative percent difference

The re-analysis indicates that the original and re-analyzed samples are comparable (RPD <50%). The poor matrix spike recoveries in the original analysis are attributed to the low spike activity relative to the sample activity. The plutonium-238 data are qualified estimated (J) due to the second low recovery (<80%) of plutonium-238 of 67%. The data were considered usable for two reasons:

- The sample results were not near the site action limit.
- The low recoveries are still partially attributable to the selection of a spiking solution activity that is the sample activity.

The thorium-228 and thorium-232 spike results were within 80 – 120% recovery range. These recoveries were judged good, and the thorium-228 and thorium-232 data are usable without qualification. The thorium-230 recoveries included 4 of the 8 spike results below 80%. The lower spike recoveries indicate a slight potential negative bias. Because no thorium-230 results closely approached the cleanup objective, the slight bias has no impact on the data usability; however, the recoveries do indicate a possible systemic low bias, and the positive results for thorium-230 should be treated as estimated (J). The thorium data are usable. The uranium spike results were within the 80 – 120% recovery range. These recoveries were judged good, and the data are usable without qualification.

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3.1.1.3 Laboratory Blanks

Laboratory blanks are used to verify that laboratory handling and procedures are not contaminating samples with target parameters. Two laboratory blanks were introduced during the isotopic plutonium analyses. No target parameters were detected in the blanks.

Five laboratory blanks were introduced during isotopic uranium analyses of the December samples. Uranium-234 was detected in two blanks at 0.022 and 0.027 pCi/g. Since only two of the five blanks contained contamination, the contamination was not systemic. The blank result, blank ID F5L120000-015B, of 0.022 pCi/g occurred in batch F5L070176. The blank result, blank ID F5L120000-14B, of 0.027 pCi/g occurred in batch F5L070157. The presence of the trace contaminant may introduce a very slight positive bias in the sample results from these two batches. Uranium-234 was not a parameter of interest, and the SUD contained no cleanup objective for this isotope. Because uranium-234 is not a parameter of interest and bias is very small, the data usability is not affected.

Six laboratory blanks were introduced during the isotopic thorium analyses of the December samples. Thorium-230 was detected in four of the blanks at activities of 0.032 pCi/g, 0.039 pCi/g, 0.035 pCi/g, and 0.034 pCi/g. The frequency of detection indicates that systemic low level contamination occurred in the laboratory. Since the blank results for thorium-230 are very similar and the contamination is systemic, all of the thorium-230 data should be treated as estimated (J) with a very slight positive bias. The qualification has no impact on data usability. Thorium-230 only exceeded the cleanup objective, in one sample, 000038. The thorium-230 result is nearly twice the cleanup objective and the slight positive bias has no impact on this data usability. *[note; this result is not a part of the PRS 11 verification data set].*

Six laboratory blanks were introduced during the gamma spectrometry analyses of the December samples. No target parameters were detected in any of the gamma spectrometry blanks.

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Laboratory blanks were introduced for thorium, uranium, and gamma spectrometry analysis of the January samples. Only thorium-230 was detected in the laboratory blanks. Thorium-230 was reported at 0.44 pCi/g in blank F6A170000-269B. The detected activity is sufficient to indicate a possible positive bias. The associate thorium-230 result should be treated as estimated (J) with a positive bias. Because the thorium-230 results in both the original and duplicate sample were below the cleanup objective, the positive bias has no impact on the data usability.

3.1.1.4 Laboratory Duplicates

December Sampling Event

Laboratory duplicates are used to assess the sample analysis precision. Table 8 lists the analysis, the number of samples submitted, and the number of laboratory duplicate analyses. For the isotopic analyses, Method A-012, the laboratory must either analyze a matrix spike and replicate (laboratory duplicate) or a matrix spike/matrix spike duplicate. Matrix spike/matrix spike duplicate analyses were performed for the isotopic analyses; thus, the lack of laboratory duplicates for these analyses does not impact the data quality.

Table 8 — Laboratory Duplicate Quantities

Analysis	Number of Samples	Number of Lab Duplicates
Isotopic Thorium	73	1
Isotopic Uranium	73	0
Isotopic Plutonium	12	0
Gamma Spectrometry	73	5

The laboratory duplicate samples were evaluated by calculating the relative percent differences (RPDs). Relative percent differences were not calculated for duplicate pairs where both results were not detected or less than 2x the MDA (minimum detectable activity). If one result was greater than 2x the MDA and the other result was not detected, a 200% relative percent difference was used. If one result was greater than 2x the MDA and the other result was detected at less than 2x the MDA, the RPD was calculated. After calculating the relative percent differences, an average of relative percent differences for each analyte was calculated.

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Sample 000076 was analyzed in replicate by the laboratory for isotopic thorium. The relative percent differences for this replicate analysis were very good at less than 10%. Because only one replicate was analyzed, it is not possible to use this information to make a systemic evaluation. No qualifications or usability impacts to the isotopic thorium data were made on the basis of the replicate results.

Samples 000001, 000020, 000021, 000025, 000041, 000049, 000052, 000062, and 000073 were analyzed in replicate by gamma spectrometry. The only target parameters in the samples and replicate samples identified at activities sufficiently above the Minimum Detectable Concentration (MDC) were lead-210, potassium-40, radium-226, and radium-224. Except for lead-210, the calculated RPDs for these parameters were very good and less than 15%. The one lead-210 replicate pair that exceeded acceptance criteria included a not detected result and a result 3 times the MDC. Because the detected activity for lead was so near the MDC, the variance was attributed to an anomaly and was not judged to be significant. Table 9 lists the average RPDs for these parameters.

Table 9 — Lab Duplicate RPDs for Radioisotopes

Analyte	All Detections	
	Frequency of Detection	Average RPD (%)
Thorium-228	1	7
Thorium-230	1	0
Thorium-232	1	3
Lead-210	1	200
Potassium-40	10	5
Radium-226	9	7
Radium-224	7	16.4

January Sampling Event

Sample PRS 11 SU1-53A was analyzed in duplicate by the laboratory for thorium, uranium, and gamma spectrometry analysis. The relative percent differences for isotopic thorium and isotopic uranium analysis were all acceptable. The laboratory did not report the laboratory duplicate results for Pa-231, Bi-210, or Ra-224, and these were not evaluated. Because the results for all gamma spectrometry results in the sample,

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and the associated field duplicate were less than 2x the MDC, no relative percent differences could be calculated. The data are unqualified. Because only one sample was collected for radiological analysis during the January sampling event, the sample was submitted as a field duplicate, and the field duplicate precision results were acceptable; the absence of the laboratory duplicate data is not significant and does not impact the usability of the data.

3.1.1.5 Field Rinsates

Field rinsates are introduced to determine whether field decontamination procedures and field handling procedures could be contaminating sample results with target parameters. Dedicated equipment was used during this project, and no field rinsates were needed.

3.1.1.6 Field Duplicates

December Sampling Event

Field duplicates are used to assess the sample collection and sample analysis precision. Table 10 lists the analysis, the number of samples submitted, and the number of field duplicates submitted.

Table 10 — Field Duplicate Quantities

Analysis	Number of Samples	Number of Field Duplicates
Isotopic Thorium	73	4
Isotopic Uranium	73	4
Isotopic Plutonium	12	1
Gamma Spectrometry	73	4

The field duplicate samples were evaluated by calculating the relative percent differences. Relative percent differences were not calculated for duplicate pairs where 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 not detected, a 200% relative percent difference was used. If one result was greater than 2x the MDA and the other result was detected at less than 2x the MDA, the RPD was calculated. After calculating the relative percent

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differences, an average of relative percent differences for each analyte was calculated. Samples 000020/000021, 000041/000042, 000062/000063, and 000073/000074 were submitted as field duplicates. The results are shown in Table 11.

Table 11 — Field Duplicate RPDs for Radioisotopes

Analyte	All Detections	
	Frequency of Detection	Average RPD (%)
Thorium-228 (54%)	4	23
Thorium-230	4	10
Thorium-232	4	32
Uranium-234	4	23
Uranium-238	4	14
Plutonium-238	1	14
Potassium-40	4	9
Radium-226	4	10
Radium-224	2	27

The average relative percent differences were all less than 50%. Only thorium-230 in sample pair 000073/000074 exceeded the field replicate criteria of 50% at 54%. The high relative percent difference indicates a potential inaccuracy in the reported activities for thorium-230. Because the other three field duplicates were acceptable, there was only a single exceedance, and the exceedance was by only 4%, the issue was not judged to be systemic.

January Sampling Event

One field duplicate of sample PRS 11 SU1-53A was submitted during the January sampling event. Only isotopic uranium and isotopic thorium results were reported at activities sufficiently above the MDC to evaluate. The relative percent differences were calculated for uranium-234, uranium-238, thorium-228, thorium-230, and thorium-232. All of the calculated relative percent differences were acceptable (<50%).

3.2 Data Validation

Data validation was subcontracted to TechLaw, Inc. Table 12 shows the number of samples submitted by analysis and the number of samples validated.

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Table 12 — Data Validation Frequency Chart

Analysis	Number of Samples	Number of Samples Validated
Isotopic Thorium	73	8
Isotopic Uranium	73	8
Isotopic Plutonium	12	2
Gamma Spectrometry	73	8

Table 13 shows the specific samples that were submitted for data validation and which analyses were validated.

Table 13 – Validated Samples

Sample ID	Isotopic Plutonium	Isotopic Thorium	Isotopic Uranium	Gamma Spectrometry
000001		X	X	X
000023		X	X	X
000034		X	X	X
000051		X	X	X
000056		X	X	X
000062	X	X	X	X
000069	X	X	X	X
000073		X	X	X

During data validation, four types of problems were identified:

- Precision for a laboratory duplicate analysis, relative percent difference, greater than acceptance limits.
- Precision for a field duplicate analysis, relative percent difference, greater than acceptance limits.
- A matrix spike recovery below acceptance limits.
- A gamma spectrometry analysis performed without sufficient ingrowth time.

Each of the problems identified above is discussed in the following subsections and assessed for impact to the data usability. The qualified results are summarized at the end of this section in Table 14.

3.2.1 Laboratory Duplicate

Laboratory duplicates are used to assess the precision of the laboratory analysis. The laboratory duplicate samples were evaluated by calculating the relative percent differences. In sample 000062, Pa-231 was qualified estimated (J) due to a calculated RPD of 136%. During data review, the same sample was not qualified because the results were within 2x the MDC. The high RPD is due to increased uncertainty of sample activities that are near the instrument limit. The qualification does not impact the usability of the data. Th-228 was qualified estimated (J) in sample 000073 with a calculated RPD of 55%.

3.2.2 Field Duplicates

Field duplicates are used to assess the sample collection and sample analysis precision. The field duplicate samples were evaluated by calculating the relative percent differences. A Th-228 result was qualified estimated (J) in sample 000073/000074 with a calculated RPD of 55%. The calculated RPD was just slightly above the guidance value of 50%. The high RPD indicates variability in the sample result. The issue was also identified during data review. The data are usable with this qualification.

3.2.3 Matrix Spikes

Matrix spikes are prepared to verify the sample matrix is not interfering with the accurate and precise determination of target parameters. The plutonium-238 result was qualified in sample 000062 due to a low matrix spike recovery of 67%. In the data review section, a more detailed assessment of the spike recovery is presented. The low recovery was judged systemic, and all positive plutonium-238 results should be treated as estimated (J). The qualification should not impact the usability of the data.

Four samples were qualified estimated (J) due to poor thorium-230 matrix spike recoveries: 000056, 000062, 000069, and 000073. The frequency of qualifications indicates a potential systemic low bias, and all positive thorium-230 results should be treated as estimated (J). The qualification should not impact the usability of the data.

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3.2.4 Inadequate Time for Ingrowth

In some cases, more than one isotope will emit energy in a specific energy region. In order to be able to separate and accurately measure the activity of a select isotope in one of these overlapping ranges, samples need to be counted, set aside for a period of time (ingrowth), and re-counted. Because the samples were processed on an accelerated turn around time, the laboratory could not allow adequate ingrowth time. By not allowing the appropriate ingrowth time, the results for radium-224 and radium-226 could be reported with a slight bias. The bias was qualified by the validator, and the results of all radium-224 and radium-226 samples should be treated as estimated (J) due to the possible slight bias. Because the radium results used to support verification were significantly less than the site action limit, the bias and associated qualification should not impact the data usability.

3.2.5 Data Qualifications Table

Table 14 lists the qualifications assigned during data validation.

Table 14 – Validated Samples/Qualifications

Sample ID	Isotope	Reason for Qualification	Qual.
000062	Pu-238	MSR (67%)	J-S (-)
000062	Pa-231	LDRPD (136%)	J
000062	Ra-226	Equilibrium w/Bi-214	J (-)
000056	Ra-226	Equilibrium w/Bi-214	J (-)
000069	Ra-226	Equilibrium w/Bi-214	J (-)
000062	Ra-224	Equilibrium w/Pb-214	J (+)
000056	Ra-224	Equilibrium w/Pb-214	J (+)
000069	Ra-224	Equilibrium w/Pb-214	J (+)
000056	Th-230	MSR (72%)	J (-)
000062	Th-230	MSR (72%)	J (-)
000069	Th-230	MSR (72%)	J (-)
000023	Ra-226	Equilibrium w/Bi-214	J (-)
000023	Ra-224	Equilibrium w/Pb-214	J (+)
000001	Ra-226	Equilibrium w/Bi-214	J (-)
000001	Ra-224	Equilibrium w/Pb-214	J (+)
000034	Ra-226	Equilibrium w/Bi-214	J (-)
000034	Ra-224	Equilibrium w/Pb-214	J (+)
000051	Ra-226	Equilibrium w/Bi-214	J (-)
000051	Ra-224	Equilibrium w/Pb-214	J (+)
000073	Ra-226	Equilibrium w/Bi-214	J (-)
000073	Ra-224	Equilibrium w/Pb-214	J (+)
000073	Th-230	MSR (71%)	J-S(-)
000073	Th-228	FDRPD (55%)	J

Codes:

MSR – Matrix Spike Recovery

LDRPD – Laboratory Duplicate Relative Percent Difference

FDRPD – Field Duplicate Relative Percent Difference

J – Estimated

S – Spike

(-) – Negative bias

(+) – Positive bias

4.0 References

DOE (U.S. Department of Energy). 22 January 2002. *Methods Compendium*. Mound Plant, Miamisburg OH. Technical Manual MD-80045, Issue 2.

EPA (U.S. Environmental Protection Agency). July 1999. *Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services.* Region IV, Science and Ecosystem Support Division, Office of Quality Assurance, Athens GA. Revision 2.1.

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APPENDIX F

ENGINEERING REPORT

BOWSER MORNER®

Recommendations for Soil Removal Project, The Mound
Miamisburg, Ohio

For

CH2M Hill, Mound, Inc.
P.O. Box 3030
Miamisburg, Ohio 45343-3030

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Recommendations for Soil Removal Project, The Mound
Miamisburg, Ohio

For

CH2M Hill, Mound, Inc.
P.O. Box 3030
Miamisburg, Ohio 45343-3030

Report No. 134305-0705-198

July 15, 2005

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ENGINEERING REPORT

REPORT TO: CH2M Hill Mound, Inc.
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Attn: Mr. Mark Spivey

REPORT DATE: July 15, 2005

REPORT NO: 134305-0705-198

REPORT ON: Recommendations for Soil Removal Project, The Mound, Miamisburg, Ohio

1.0 INTRODUCTION

This project consists of the removal of soil fill and crushed drums from a triangular area in the Mound complex in Miamisburg, Ohio. Based on a site topographic map provided by the client, each side of the triangular area is about 150 feet to 220 feet long. An old, unspecified landfill area is next to the east side of this study area. The top of the fill area is at an elevation of 732 feet while the street level next to this study area is at an elevation of 702 feet.

Excavation to remove the soil fill was in progress at the time this report was prepared. The contractor created a southwesterly cut slope at a grade of 1-1/2 (horizontal) to 1 (vertical). The toe of the excavation was at an approximate elevation of 702 feet in front of the cut slope. The bottom of the excavation will extend to an elevation of 692 feet to allow the safe removal of as many of the crushed metal drums as possible. Based on the contract with the contractor, the side slope will be maintained at 1-1/2 (horizontal) to 1 (vertical) for safety and to prevent disturbances of the embankment between the area with buried drums and the unspecified landfill area to the east.

The purposes of our study were to provide consultation for maximizing the bottom of the excavation area to remove as many crushed drums as possible, to determine the maximum safe slope in the excavation, and to provide the estimated excavation volume for each of the proposed excavation methods.

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The following methods were formulated during this study and discussed with Mr. Mark Spivey with CH2M Hill Mound, Inc.:

1) Install tie-back sheet piles from the top of the slope to lower the top of the excavation and increase the exposed area at the bottom of the excavation.

2) Perform soil borings to verify the fill and original soil conditions so that the grade of the cut slope could be increased.

3) Provide other excavation methods to increase the exposure at the bottom of the excavation.

The first method was discussed with Mr. Spivey during our first site visit about one week before the excavation operation began on the site. Mr. Spivey said that while this method could have been considered earlier, it was no longer possible since a contract had been finalized with the earthwork contractor. Since any change in the original design with a 1-1/2 (horizontal) to 1 (vertical) cut slope could delay the project, which is unacceptable, no further consideration of the first method was needed. The remaining methods are discussed below.

2.0 WORK PERFORMED

For the second and the third methods, four borings were proposed to be made from the top of the cut slope. These borings were intended to provide information on the fill and original soil conditions. However, due to the limited area at the top of the cut slope, only two soil borings were made at the locations shown on the boring location plan (Figure 2). The borings were made with a boring rig mounted on a track vehicle using hollow-stem augers and standard penetration resistance methods. The standard penetration tests were performed in accordance with ASTM D1586, which includes a 140-pound hammer, 30-inch drops, and two-inch-O.D. split-spoon samplers driven at maximum depth intervals of five feet or at major changes in stratum, whichever occurred first. The disturbed split-spoon samples were visually classified, logged, sealed in moisture-proof jars, and taken to the Bowser-Morner laboratory for study. The depths

where these "A"-type split-spoon samples were collected are noted on the corresponding boring logs.

3.0 SOIL AND GROUNDWATER CONDITIONS

Based on the information from the two borings made for this study, the subgrade soil conditions are described in descending order below:

- 23 to 24 feet of undocumented and uncontrolled fill consisting of topsoil; brown lean clay; brown and gray, sandy lean clay; and brown and gray sandy clay and silt.
- Below the fill layer, four to 20 feet of medium-stiff-to-very-stiff, brown or gray, sandy lean clay.
- In Boring 1 and below the gray, sandy, lean clay layer, five feet of very stiff, brown lean clay with sand.
- In Boring 2 and below the brown, sandy, lean clay layer, stiff, olive-gray lean clay with sand extending to the bottom of this boring at a depth of 45 feet.
- In Boring 1 and below the brown lean clay with sand layer, three feet of very dense, brown silty sand.
- Auger refusal on apparent bedrock occurred at the bottom of Boring 1 at a depth of 36 feet.

Groundwater was not encountered during the boring operations. Free groundwater is defined as water that seeps into an open borehole before it is backfilled. Groundwater observations were made during the boring operations by noting the depth of water on the boring tools and in the open boreholes following withdrawal of the boring augers. However, it should be noted that short-term water level readings are not necessarily a reliable indication of the groundwater level and that significant fluctuations may occur due to variations in rainfall and other factors. For specific questions on the soil conditions, please refer to the individual boring logs in Appendix A.

4.0 EVALUATION OF SOIL STRENGTH PARAMETER

The strength parameters of the existing fill over the buried metal drums and the original soil layer were evaluated based on the conditions of the fill and the soil layers

indicated in the two borings made for this study. These strength parameters are discussed below.

4.1 UNDOCUMENTED AND UNCONTROLLED FILL

The angle of friction for the undocumented and uncontrolled fill was estimated based on correlations with the Standard Penetration Test (SPT-N) results indicated in the borings made for this study.

Figure 1 below was reproduced from *Soils and Foundations Handbook*, State of Florida Department of Transportation, 1974. Based on Figure 1 and the average "N" value of 25, the strength parameter "ϕ" is 30 degrees. Based on our experience with similar materials, a cohesion of 250 psf and a unit weight of 125 pcf were assumed for the existing fill.

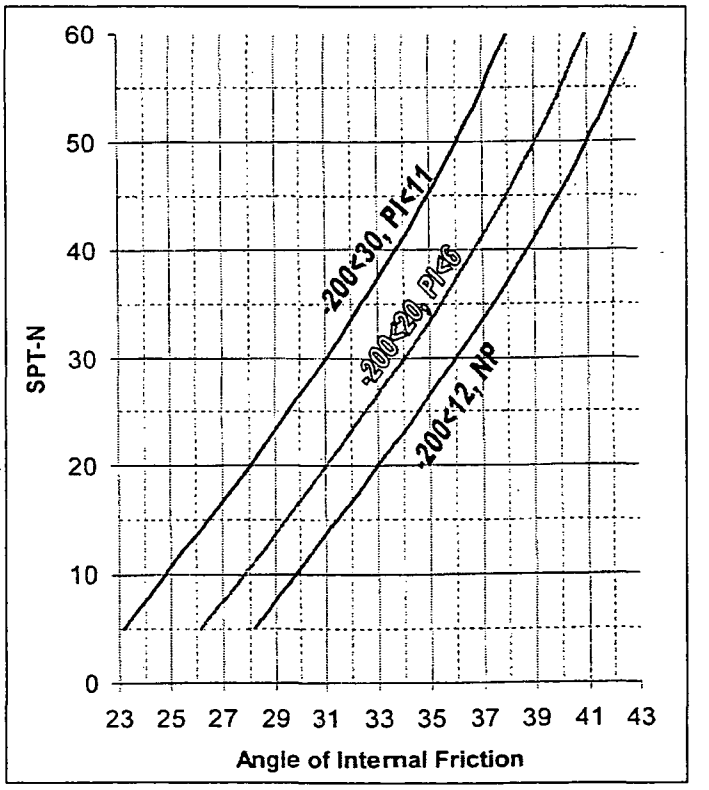

Figure 1. Angle of Internal Friction vs. SPT-N (from Peck, 1974).

4.2 ORIGINAL LEAN CLAY

The strength parameter "ϕ" for the original, lean clay layer was also determined to be about 30 degrees, with the average "N" value of 25. Again, based on our experience with similar types of soil, a cohesion of 250 psf and a unit weight of 125 pcf were assumed for the original, lean clay layer.

5.0 DISCUSSION AND RECOMMENDATIONS

5.1 CONSIDERATION OF STEEPER CUT SLOPE AND SHEAR WALLS

Based on the soil conditions indicated in the two borings made for this study, the grade of the cut slope may be increased from 1-1/2 (horizontal) to 1 (vertical) to a slope of 1 (horizontal) to 1 (vertical). Additionally, a near-vertical shear wall may be considered at the toe of the cut slope to increase the excavation area at the bottom of the excavation. Evaluations of these methods are discussed below.

5.2 SUBGRADE SOIL CLASSIFICATION FOR EXCAVATION

Based on the Occupational Safety and Health Administration's (OSHA's) Subpart P-Excavations (29 CFR PART 1926), cohesive soil with an unconfined compressive strength of 3,000 pounds per square foot (psf) or greater can be classified as Type "A" soil. Cohesive soil with an unconfined compressive strength greater than 1,000 psf but less than 3,000 psf can be classified as Type "B" soil, and cohesive soil with an unconfined compressive strength of 1,000 psf or less can be classified as Type "C" soil. Dense or very dense granular soil with no water can be classified as Type "B" soil; the other granular soils should be classified as Type "C" soil. Previously disturbed soil (fill) should not be classified as Type "A" soil.

Based on the standard penetration test (SPT) results from this study, the subgrade soils at the site are classified as shown in Table 1.

TABLE 1. Subgrade Soil Classification (OSHA)

Boring No.	Depth (ft.)	OSHA Soil Type
1	0.0 – 24.0	B
	24.0 – 33.0	A
	33.0 – 36.0	B
2	0.0 – 23.0	B
	23.0 – 38.0	A
	38.0 – 45.0	B

If weaker soil is encountered below stronger soil, the excavations in the stronger soil above the weaker soil layer have to be designed or prepared in accordance with the weaker soil type. At the time of our study, free groundwater was not encountered during the boring operations. Any groundwater encountered at the site should be lowered to at least three feet below the bottom of the maximum. Otherwise, the bottoms of the excavation will be very soft due to the groundwater seepage. All submerged soil or soil from which water is freely seeping should be classified as Type "C" soil.

Based on the OSHA subgrade soil classifications outlined in Table 3 and from the results of the standard penetration tests (SPT), the cut slope for the excavation of the soil at the site can be maintained at 1 (horizontal) to 1 (vertical).

5.3 SHEAR WALL METHOD

The present cut slope is at a grade of 1-1/2 (horizontal) to 1 (vertical). The cut slope can be increased to a slope of 1 (horizontal) to 1 (vertical). Additionally, the near-vertical shear wall may be able to extend from an elevation of 702 feet (even with the street level) to the proposed bottom of the excavation at an elevation of 692 feet to increase the area at the bottom of the excavation. Based on the soil strength parameters determined in the previous sections and the cut slope of 1 (horizontal) to 1 (vertical), and with the near-vertical shear wall extending from an elevation of 702 feet to an elevation of 692 feet at the toe of the cut slope, the slope stability analyses were performed based on short-term and long-term conditions.

The short-term conditions depend on the cohesion only of the soil to resist the sliding failure. The long-term conditions depend on the combination of the cohesion and the internal friction between soil particles. The long-term conditions of the cut slope also apply to the slope if it becomes saturated with surface water runoff during construction.

The slope-stability analyses were performed using the computer program STABL6H. This program was developed at Purdue University in cooperation with the Federal Highway Administration. The program is capable of determining the factor of safety for potential failure surfaces of given configurations and includes a search routine that locates the surface that gives a minimum factor of safety. The Simplified Bishop method was used for circular failure surfaces (rotational stability analysis). The program uses a limited equilibrium procedure applied to the method of slices. A plotting subroutine provides graphical representation of the analyzed slope sections, including pertinent analysis information such as the most-critical failure surfaces and the factors of safety for these most-critical surfaces.

Based on information from the two borings made for this study and existing information for similar materials, the input parameters for the subgrade materials were selected for use in the slope-stability analyses. The slope-stability analyses were performed under static conditions using both short-term and long-term, effective strength parameters. An overall side slope of 1 (horizontal) to 1 (vertical) was used in the analyses. Table 2 summarizes the strength parameters used for the analyses.

TABLE 2. Strength Parameters for Slope Stability Analyses

Material	Test Condition	Dry Unit Weight (pcf)	Effective Strength ϕ' (°)	Cohesion C' (psf)
Fill	Short-term	125	0	1000
	Long-term	125	30	250
Lean Clay	Short-term	125	0	1000
	Long-term	125	30	250

5.4 RESULTS OF SLOPE STABILITY ANALYSES

The results of the slope stability analyses are summarized in Table 3. The computer printouts and calculations are included in Appendix B of this report.

TABLE 3. Results of Slope Stability Analyses

Analysis Condition	Vertical Shear Wall	Minimum Factor of Safety
Short-term	No Shear Wall	1.26
Short-term	Full face shear wall	1.12
Long-term	No Shear Wall	1.21
Long-term	Full face shear wall	1.02

Based on the results of the slope-stability analyses, the minimum factors of safety of the 1 (horizontal) to 1 (vertical) cut slope are between 1.21 and 1.26 for long-term and short-term conditions.

The 1 (horizontal) to 1 (vertical) cut slope with a full-face shear wall at the toe may become unstable after a few months or if the slope is fully saturated with water due to rain. As a result, we do not recommend that a full-face shear wall be excavated at the toe of the 1 (horizontal) to 1 (vertical) cut slope.

5.5 SOIL REMOVAL RECOMMENDATIONS

To maintain a safe slope and to increase the amount of excavation below the existing flat level, we recommend that alternating 10-foot-wide sections of excavation be performed from the top of the flat area at an elevation of 702 feet to reach the buried, crushed-drums at an elevation of 692 feet. The trench excavations should be perpendicular to the toe of the slope. No worker should be allowed to enter the 10-foot-wide excavations. After all of the crushed drums have been removed from each alternating 10-foot-wide trench, the trench should be backfilled with compacted soil fill. The remaining alternating sections of 10-foot-wide soil then can be removed, and the crushed drums can be removed from those sections. The overall side slope in front of the landfill can be maintained at 1 (horizontal) to 1 (vertical), not to exceed a total height of

28 feet.

Performing the full-face, open, vertical-cut excavation at the toe of the slope may cause failure of the slope. The failure of the slope would jeopardize the integrity of the landfill to contain the undesirable materials. If failure of the slope were to occur, the failed material would need to be excavated, opening up the protected landfill and increasing the chances of breaking the landfill seal.

5.6 VOLUME OF EXCAVATION

Based on the topographic map provided by the client, the excavation volumes have been determined between elevations of 702 feet and 692 feet.

If the side slope will be maintained at a 1-1/2 (horizontal) to 1 (vertical) slope, the amount of excavation of the material below an elevation of 702 feet will be 4,483 cubic yards. The amount of surface area of excavation will be 8,466 square feet. For the 1-1/2 (horizontal) to 1 (vertical) cut slope with the vertical shear wall, the excavation of the material will be 5,915 cubic yards, an increase of 1,432 cubic yards. The amount of surface area of excavation for the 1-1/2 (horizontal) to 1 (vertical) cut slope with the vertical shear wall will be 15,970 square feet, an increase of 7,504 square feet.

The total amount of excavation with a 1 (horizontal) to 1 (vertical) cut slope with no vertical shear wall will be about 5,198 cubic yards, which increases the cut volume by 715 cubic yards from the 1-1/2 (horizontal) to 1 (vertical) cut slope with no vertical shear wall. The amount of surface area of excavation for the 1 (horizontal) to 1 (vertical) cut slope with no vertical shear wall will be about 10,718 square feet, which increases the surface area of excavation by 2,252 square feet from the 1-1/2 (horizontal) to 1 (vertical) cut slope with no vertical shear wall. The total amount of excavation with a 1 (horizontal) to 1 (vertical) cut slope with the vertical shear wall will be about 6,512 cubic yards, an increase in cut volume of 2,029 cubic yards from the 1-1/2 (horizontal) to 1 (vertical) cut slope with no vertical shear wall. The amount of surface area of excavation for the 1 (horizontal) to 1 (vertical) cut slope with the vertical shear wall will be about 17,582 square feet, which increases the surface area of excavation by 9,116 square feet

from the 1-1/2 (horizontal) to 1 (vertical) cut slope with no vertical shear wall.

If you have any questions, please contact us.

Respectfully Submitted
BOWSER-MORNER, INC.

Chris R. Ryan, M.S., E.I.T.
Geotechnical Engineer

Richard J. Tseng, Ph.D., P.E.
Vice President
Chief Geotechnical Engineer

CRR/RJYT/kmw
3-Addressee
2-File

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APPENDIX A

BORING LOGS AND PRINTS

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Important Information About Your

Geotechnical Engineering Report

Subsurface problems are a principal cause of construction delays, cost overruns, claims, and disputes.

The following information is provided to help you manage your risks.

Geotechnical Services Are Performed for Specific Purposes, Persons, and Projects

Geotechnical engineers structure their services to meet the specific needs of their clients. A geotechnical engineering study conducted for a civil engineer may not fulfill the needs of a construction contractor or even another civil engineer. Because each geotechnical engineering study is unique, each geotechnical engineering report is unique, prepared *solely* for the client. *No one except you* should rely on your geotechnical engineering report without first conferring with the geotechnical engineer who prepared it. *And no one—not even you*—should apply the report for any purpose or project except the one originally contemplated.

Read the Full Report

Serious problems have occurred because those relying on a geotechnical engineering report did not read it all. Do not rely on an executive summary. Do not read selected elements only.

A Geotechnical Engineering Report Is Based on A Unique Set of Project-Specific Factors

Geotechnical engineers consider a number of unique, project-specific factors when establishing the scope of a study. Typical factors include: the client's goals, objectives, and risk management preferences; the general nature of the structure involved, its size, and configuration; the location of the structure on the site; and other planned or existing site improvements, such as access roads, parking lots, and underground utilities. Unless the geotechnical engineer who conducted the study specifically indicates otherwise, *do not rely on a geotechnical engineering report* that was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

Typical changes that can erode the reliability of an existing geotechnical engineering report include those that affect:

- the function of the proposed structure, as when it's changed from a parking garage to an office building, or from a light industrial plant to a refrigerated warehouse,
- elevation, configuration, location, orientation, or weight of the proposed structure,
- composition of the design team, or
- project ownership.

As a general rule, *always* inform your geotechnical engineer of project changes—even minor ones—and request an assessment of their impact. *Geotechnical engineers cannot accept responsibility or liability for problems that occur because their reports do not consider developments of which they were not informed.*

Subsurface Conditions Can Change

A geotechnical engineering report is based on conditions that existed at the time the study was performed. *Do not rely on a geotechnical engineering report* whose adequacy may have been affected by: the passage of time; by man-made events, such as construction on or adjacent to the site; or by natural events, such as floods, earthquakes, or groundwater fluctuations. *Always* contact the geotechnical engineer before applying the report to determine if it is still reliable. A minor amount of additional testing or analysis could prevent major problems.

Most Geotechnical Findings Are Professional Opinions

Site exploration identifies subsurface conditions *only* at those points where subsurface tests are conducted or samples are taken. Geotechnical engineers review field and laboratory data and then apply their professional judgment to render an *opinion* about subsurface conditions throughout the site. Actual subsurface conditions may differ—sometimes significantly—from those indicated in your report. Retaining the geotechnical engineer who developed your report to provide construction observation is the most effective method of managing the risks associated with unanticipated conditions.

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A Report's Recommendations Are *Not* Final

Do not overrely on the construction recommendations included in your report. *Those recommendations are not final*, because geotechnical engineers develop them principally from judgment and opinion. Geotechnical engineers can finalize their recommendations only by observing actual subsurface conditions revealed during construction. *The geotechnical engineer who developed your report cannot assume responsibility or liability for the report's recommendations if that engineer does not perform construction observation.*

A Geotechnical Engineering Report Is Subject To Misinterpretation

Other design team members' misinterpretation of geotechnical engineering reports has resulted in costly problems. Lower that risk by having your geotechnical engineer confer with appropriate members of the design team after submitting the report. Also retain your geotechnical engineer to review pertinent elements of the design team's plans and specifications. Contractors can also misinterpret a geotechnical engineering report. Reduce that risk by having your geotechnical engineer participate in prebid and preconstruction conferences, and by providing construction observation.

Do Not Redraw the Engineer's Logs

Geotechnical engineers prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. To prevent errors or omissions, the logs included in a geotechnical engineering report should *never* be redrawn for inclusion in architectural or other design drawings. Only photographic or electronic reproduction is acceptable, *but recognize that separating logs from the report can elevate risk.*

Give Contractors a Complete Report and Guidance

Some owners and design professionals mistakenly believe they can make contractors liable for unanticipated subsurface conditions by limiting what they provide for bid preparation. To help prevent costly problems, give contractors the complete geotechnical engineering report, *but* preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report was not prepared for purposes of bid development and that the report's accuracy is limited; encourage them to confer with the geotechnical engineer who prepared the report (a modest fee may be required) and/or to conduct additional study to obtain the specific types of information they need or prefer. A prebid conference can also be valuable. *Be sure contractors have sufficient time* to perform additional study. Only then might you be in a position to give contractors the best information available to you, while requiring them to at least share some of the financial responsibilities stemming from unanticipated conditions.

Read Responsibility Provisions Closely

Some clients, design professionals, and contractors do not recognize that geotechnical engineering is far less exact than other engineering disciplines. This lack of understanding has created unrealistic expectations that have led to disappointments, claims, and disputes. To help reduce such risks, geotechnical engineers commonly include a variety of explanatory provisions in their reports. Sometimes labeled "limitations", many of these provisions indicate where geotechnical engineers responsibilities begin and end, to help others recognize their own responsibilities and risks. *Read these provisions closely.* Ask questions. Your geotechnical engineer should respond fully and frankly.

Geoenvironmental Concerns Are Not Covered

The equipment, techniques, and personnel used to perform a *geoenvironmental* study differ significantly from those used to perform a *geotechnical* study. For that reason, a geotechnical engineering report does not usually relate any geoenvironmental findings, conclusions, or recommendations; e.g., about the likelihood of encountering underground storage tanks or regulated contaminants. *Unanticipated environmental problems have led to numerous project failures.* If you have not yet obtained your own geoenvironmental information, ask your geotechnical consultant for risk management guidance. *Do not rely on an environmental report prepared for someone else.*

Rely on Your Geotechnical Engineer for Additional Assistance

Membership in ASFE exposes geotechnical engineers to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a construction project. Confer with your ASFE-member geotechnical engineer for more information.

ASFE
The Best People on Earth
8811 Colesville Road Suite G106 Silver Spring, MD 20910
Telephone: 301-565-2733 Facsimile: 301-589-2017
email: info@asfe.org www.asfe.org

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BORING LOG TERMINOLOGY

Stratum Depth:

Distance in feet and/or inches below ground surface.

Stratum Elevation:

Elevation in feet below ground surface elevation.

Description of Materials:

Major types of soil material existing at boring location. Soil classification based on one of the following systems: Unified Soil Classification System., Ohio State Highway Classification System. Highway Research Board Classification System. Federal Aviation Authority Classification System. Visual Classification.

Sample No.:

Sample numbers are designated consecutively, increasing with depth for each boring.

Sample Type:

"A" Split spoon. 2" O.D., 1-3/8" I.D., 18" in length.

"B" Rock Core

"C" Shelby Tube 3" O.D. except where noted

"D" Soil Probe

"E" Auger Cuttings

"F" Sonic

Sample Depth:

Depth below top of ground at which appropriate sample was taken.

Blows per 6" on Sampler:

The number of blows required to drive a 2" O.D., 1-3/8" I.D., split spoon sampler, using a 140 pound hammer with a 30-inch free fall, is recorded for 6" drive increments. (Example: 3/8/9).

"N" Blows/Ft.:

Standard penetration resistance. This value is based on the total number of blows required for the last 12" of penetration. (Example: 3/8/9: N = 8 + 9 = 17)

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Water Observations:

Depth of water recorded in test boring is measured from top of ground to top of water level. Initial depth indicates water level during boring, completion depth indicates water level immediately after boring, and depth after "X" number hours indicates water level after letting water rise or fall over a time period. Water observations in pervious soil are considered reliable ground water levels for that date. Water observations in impervious soils can not be considered accurate ground water measurements for that date unless records are made over several days' time. Factors such as weather, soil porosity, etc., will cause the ground water level to fluctuate for both pervious and impervious soils.

SOIL DESCRIPTION

Color:

When the color of the soil is uniform throughout, the color recorded will be such as brown, gray, or black and may be modified by adjectives such as light and dark. If the soil's predominant color is shaded by a secondary color, the secondary color precedes the primary color, such as: gray-brown, yellow-brown. If two major and distinct colors are swirled throughout the soil, the colors will be modified by the term mottled, such as: mottled brown and gray.

Particle Size		Visual
Boulders		Larger than 8"
Cobbles		8" to 3"
Gravel	– Coarse	3" to 3/4"
	– Fine	2 mm. To 3/4"
Sand	– Coarse	2 mm. – 0.6 mm. (Pencil lead size)
	– Medium	0.6 mm. – 0.2mm. Table sugar and salt size)
	– Fine	0.2 mm. – 0.06 mm. (Powdered sugar and human hair size)
Silt		0.06 mm. – 0.002 mm.
Clay		0.002 and smaller (Particle size of both Silt and Clay not visible To naked eye

Soil Components

Major Component:	Minor Component Term
Gravel	Trace 1-10%
Sand	Some 11-35%
Silt	And 36-50%
Clay	

Moisture Content

Term	Relative Moisture
Dry	Powdery
Damp	Moisture content below plastic limit
Moist	Moisture content above plastic limit but below liquid limit
Wet	Moisture content Above liquid limit

Condition of Soil Relative to Compactness Granular Material

Very Loose	5 blows/ft. or less
Loose	6 to 10 blows/ft.
Medium Dense	11 to 30 blows/ft.
Dense	30 to 50 blows/ft.
Very Dense	51 blows/ft. or more

Condition of Soil Relative to Consistency Cohesive Material

Very Soft	3 blows/ft. or less
Soft	4 to 5 blows/ft.
Medium Stiff	6 to 10 blows/ft.
Stiff	11 to 15 blows/ft.
Very stiff	16 to 30 blows/ft.
Hard	31 blows ft. or more

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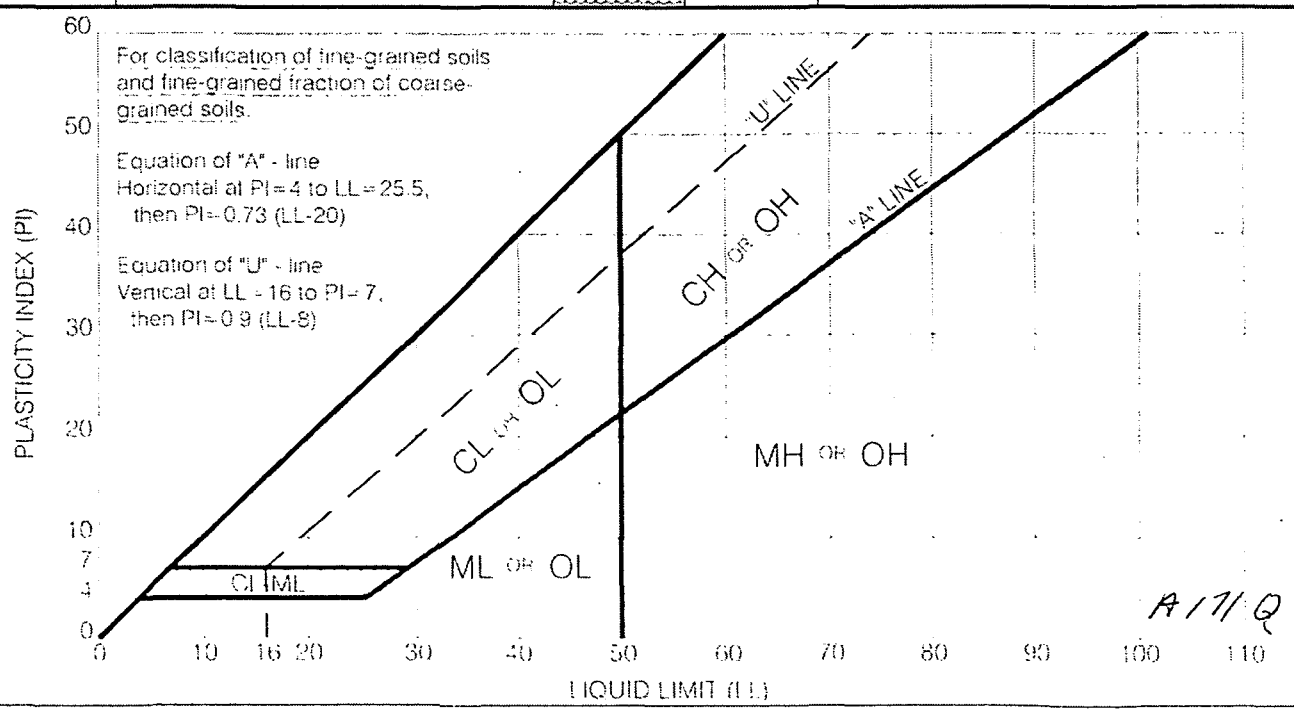
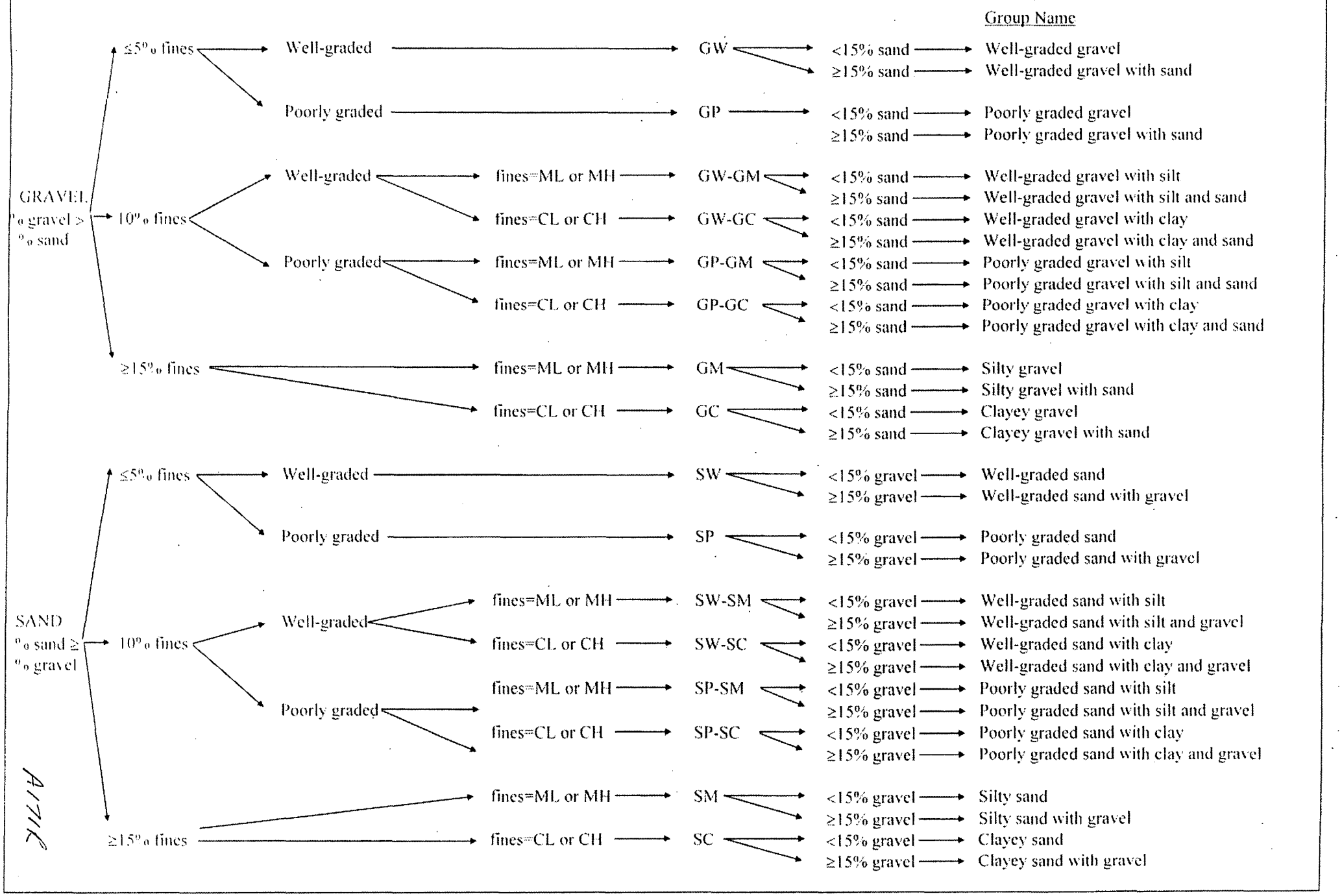
UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVEL WELL-GRADED GRAVEL WITH SAND
				GP	POORLY GRADED GRAVEL POORLY GRADED GRAVEL WITH SAND
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES APPRECIABLE AMT. OF FINES)		GM	SILTY GRAVEL SILTY GRAVEL WITH SAND
				GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SAND WELL-GRADED SAND WITH GRAVEL
				SP	POORLY GRADED SAND POORLY GRADED SAND WITH GRAVEL
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMT. OF FINES)		SM	SILTY SAND SILTY SAND WITH GRAVEL
				SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILT AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	SILT, SILT WITH SAND, SANDY SILT GRAVELLY SILT, GRAVELLY SILT WITH SAND
				CL	LEAN CLAY WITH SAND, SANDY LEAN CLAY GRAVELLY LEAN CLAY WITH SAND
				OL	ORGANIC CLAY, SANDY ORGANIC CLAY ORGANIC SILT, SANDY ORGANIC SILT WITH GRAVEL
	SILT AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	ELASTIC SILT WITH SAND, SANDY ELASTIC SILT GRAVELLY ELASTIC SILT WITH SAND
				CH	FAT CLAY WITH SAND, SANDY FAT CLAY GRAVELLY FAT CLAY WITH SAND
				OH	ORGANIC CLAY WITH SAND, SANDY ORGANIC CLAY, ORGANIC SILT, SANDY ORGANIC SILT
	HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS



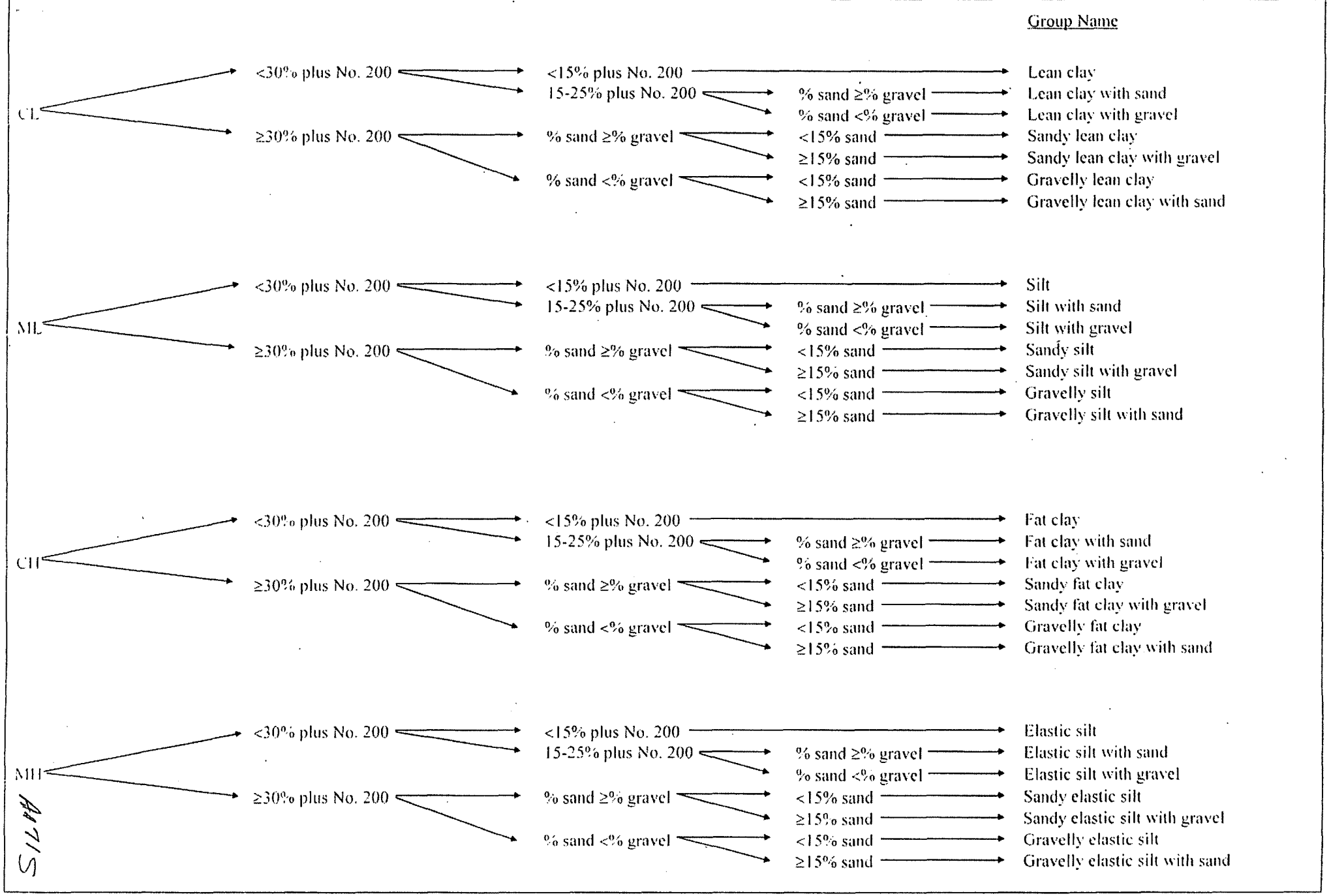
A/1/Q

Flow Chart for Visually Identifying Soils Based on ASTM D-2488



A1714

Flow Chart for Visually Identifying Soils Based on ASTM D-2488



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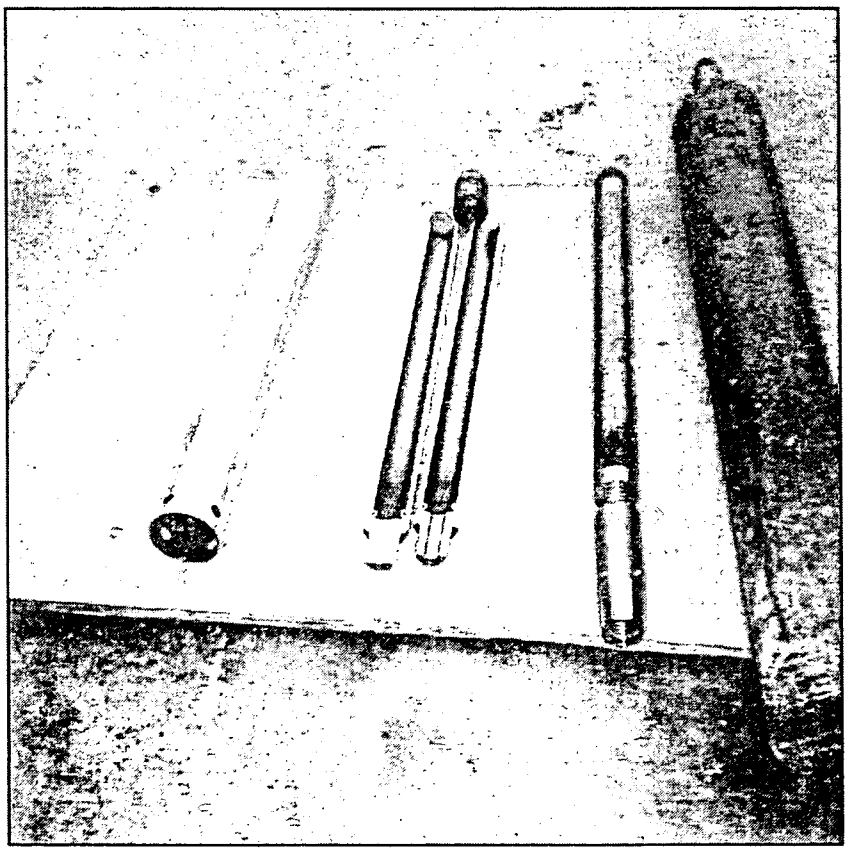
STANDARD PENETRATION RESISTANCE (ASTM D1586)

The purpose of this test is to determine the relative consistency of the soils in a boring, or from boring over the site. This method consists of making a hole in the ground and driving a 2-inch O.D. split spoon sampler into the soil with a 140-pound hammer dropped from a height of 30 inches. The sampler is driven 18 inches and the number of blows recorded for each 6 inches of penetration. Values of standard penetration (N) are determined in blows per foot, summarizing the flows required for the last two 6-inche increments of penetration.

Example : 2-6-8; N = 14

THIN-WALLED SAMPLER (ASTM D1587)

The purpose of the thin-walled sampler is to recover a relatively undisturbed soil sample for laboratory tests. The sampler is a thin-walled seamless tube with a 3-inch outside diameter, which is hydraulically pressed into the ground, at a constant rate. The ends are then sealed to prevent soil moisture loss, and the tube is returned to the laboratory for tests.



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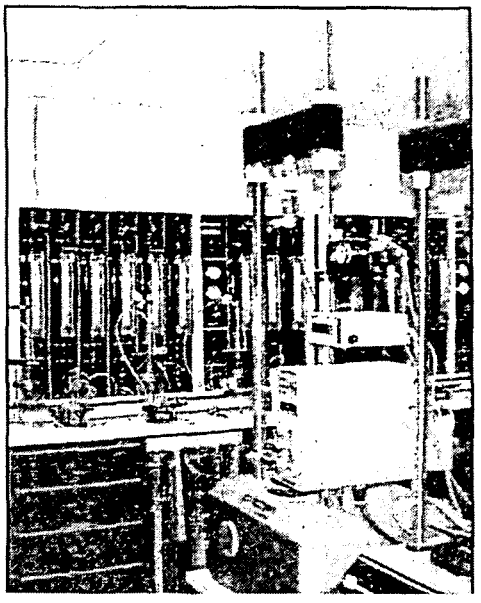
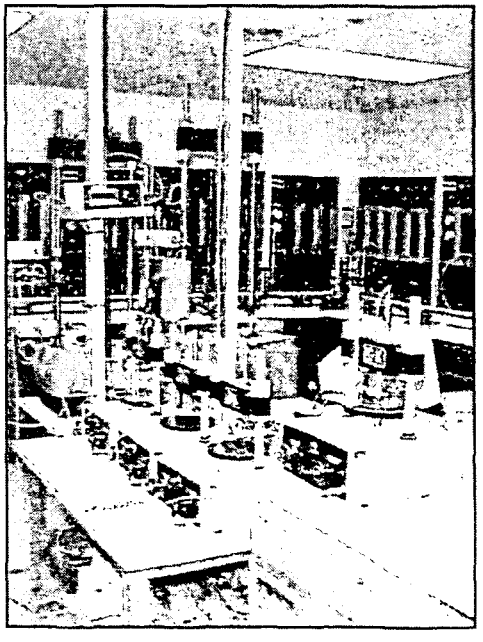
UNCONFINED COMPRESSION OR TRIAXIAL TESTS (ASTM D 2166)



The unconfined compression test and the triaxial tests are performed to determine the shearing strength of the soil, to use in establishing its safe bearing capacity. In order to perform the unconfined compression test, it is necessary that the soil exhibit sufficient cohesion to stand in an unsupported cylinder. These tests are normally performed on samples which are 6.0 inches in height and 2.85 inches in diameter. In the triaxial test, various lateral stresses can be applied to more closely simulate the actual field conditions. There are several different types of triaxial tests. These are, however, normally performed on constant strain apparatus with a deformation rate of 0.05 inches per minute.

CONSOLIDATION TEST (ASTM D 2435)



The purpose of this test is to determine the compressibility of the soil. This test is performed on a sample of soil which is 2.5 inches in diameter and 1.0 inch in height, and has been trimmed from relatively "undisturbed" samples. The test is performed with a lever system or an air activated piston for applying load. The loads are applied in increments and allowed to remain on the sample for a period of 24 hours. The consolidation of the sample under each individual load is measured and a curve of void ratio vs. Pressure is obtained. From the information obtained in this manner and the column loads of the structure, it is possible to calculate the settlement of each individual building column. This information, together with the shearing strength of the soil, is used to determine the safe bearing capacity for a particular structure.

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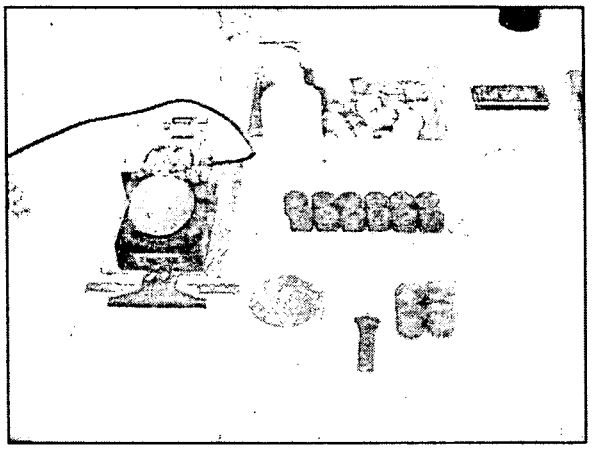
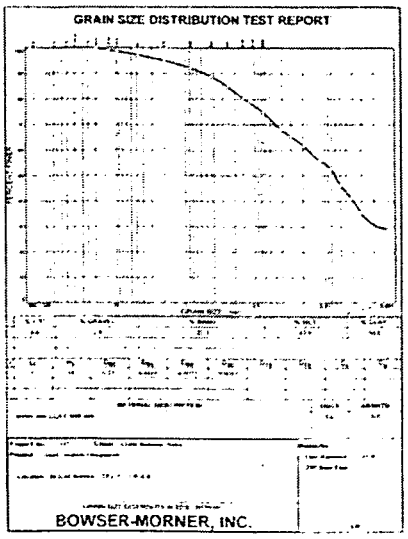
REVISED TO ASTM D4318
ATTERBERG LIMITS (ASTM D423 AND D424)

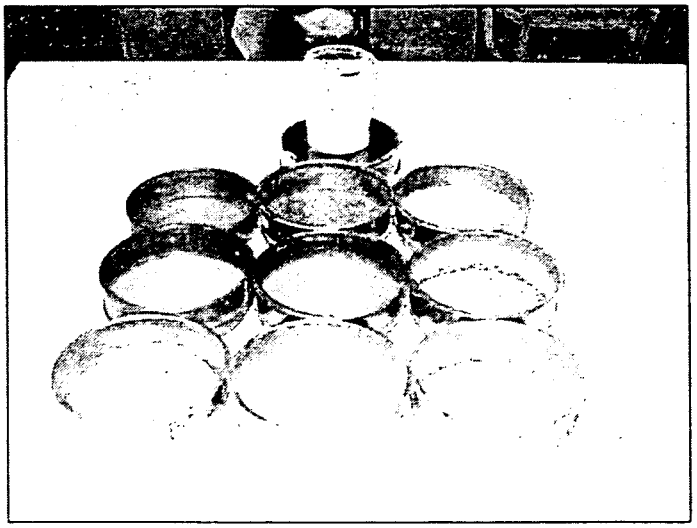
These tests determine the liquid and plastic limits of soils having a predominant percentage of fine particle (silt and clay) sizes. The liquid limit of a soil is the moisture content expressed as a percent at which the soil changes from a liquid to a plastic state, and the plastic limit is the moisture content at which the soil changes from a plastic to a semi-solid state. Their difference is defined as the plasticity index (P.I. = L.L. - P.L.), which is the change in moisture content required to change the soil from a "semi-solid" to a liquid. These tests furnish information about the soil properties which is important in determining their relative swelling potential and their classifications.



MECHANICAL ANALYSIS (ASTM D422)

This test determines the percent of each particle size of a soil. A sieve analysis is conducted on particle sizes greater than a No. 200 sieve (0.074 mm), and a hydrometer test on particles smaller than the No.200 sieve. The gradation curve is drawn through the points of cumulative percent of particle size, and plotted on semi-logarithmic paper for the combined sieve and hydrometer analysis. This test, together with the Atterberg Limits tests, is used to classify a soil.





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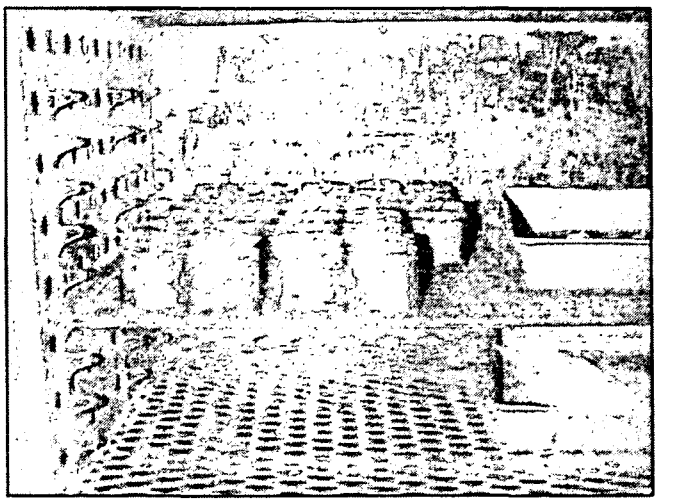
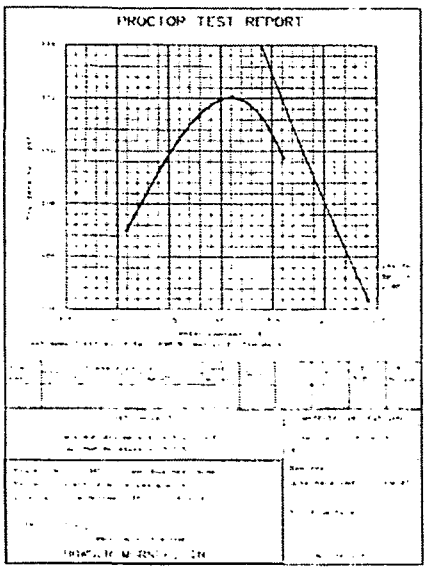
NATURAL MOISTURE CONTENT (ASTM D2216)

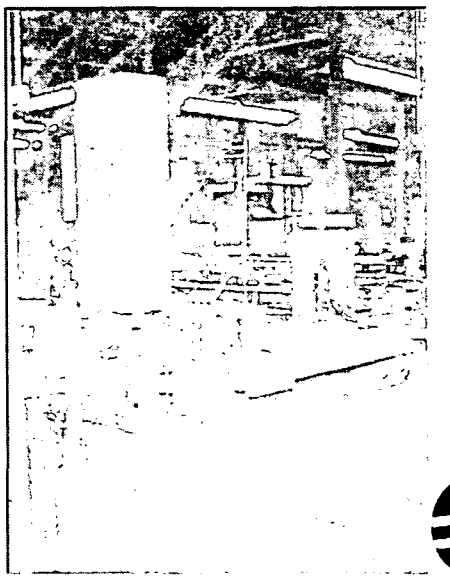
The purpose of this test is to indicate the range of moisture contents present in the soil. A wet sample is weighed, placed in the constant temperature oven at 105° for 24 hours, and re-weighed. The moisture content is the change in weight divided by the dry weight.



PROCTOR TESTS

The purpose of these tests is to determine the maximum density and optimum moisture content of a soil. The Modified Proctor test is performed in accordance with ASTM D1557-70. The test is performed by dropping a 10-pound hammer 25 times from an 18-inch height on each of 5 equal layers of soil in a 1/30 cubic foot mold, which represents a compaction effort of 56,250 foot pounds per cubic foot. The moisture content is then raised, and this procedure is repeated. A moisture density curve is then plotted, with the density on the ordinate axis and the moisture on the abscissa axis. The moisture content at which the maximum density requirement can be achieved with a minimum compactive effort is designated as the optimum moisture content (O.M.C.). The Standard Proctor test is performed in accordance with ASTM D698-70. This test is similar to the Modified Proctor test and is performed by dropping a 5.5 pound hammer 25 times from a height of 12 inches on 3 equal layers of soil in a 1/30 cubic foot mold, which represents a compaction effort of 12,375 foot pounds per cubic foot. This test gives proportionately lower results than the Modified Proctor test.





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BORING LOG TERMINOLOGY

Stratum Depth:

Distance in feet and/or inches below ground surface.

Stratum Elevation:

Elevation in feet below ground surface elevation.

Description of Materials:

Major types of soil material existing at boring location. Soil classification based on one of the following systems: Unified Soil Classification System., Ohio State Highway Classification System. Highway Research Board Classification System. Federal Aviation Authority Classification System, Visual Classification.

Sample No.:

Sample numbers are designated consecutively, increasing with depth for each boring.

Sample Type:

"A" Split spoon, 2" O.D., 1-3/8" I.D., 18" in length.

"B" Rock Core

"C" Shelby Tube 3" O.D. except where noted

"D" Soil Probe

"E" Auger Cuttings

"F" Sonic

Sample Depth:

Depth below top of ground at which appropriate sample was taken.

Blows per 6" on Sampler:

The number of blows required to drive a 2" O.D., 1-3/8" I.D., split spoon sampler, using a 140 pound hammer with a 30-inch free fall, is recorded for 6" drive increments. (Example: 3/8/9).

"N" Blows/Ft.:

Standard penetration resistance. This value is based on the total number of blows required for the last 12" of penetration. (Example: 3/8/9: N = 8 + 9 = 17)

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Water Observations:

Depth of water recorded in test boring is measured from top of ground to top of water level. Initial depth indicates water level during boring, completion depth indicates water level immediately after boring, and depth after "X" number hours indicates water level after letting water rise or fall over a time period. Water observations in pervious soil are considered reliable ground water levels for that date. Water observations in impervious soils can not be considered accurate ground water measurements for that date unless records are made over several days' time. Factors such as weather, soil porosity, etc., will cause the ground water level to fluctuate for both pervious and impervious soils.

SOIL DESCRIPTION

Color:

When the color of the soil is uniform throughout, the color recorded will be such as brown, gray, or black and may be modified by adjectives such as light and dark. If the soil's predominant color is shaded by a secondary color, the secondary color precedes the primary color, such as: gray-brown, yellow-brown. If two major and distinct colors are swirled throughout the soil, the colors will be modified by the term mottled, such as: mottled brown and gray.

Particle Size		Visual
Boulders		Larger than 8"
Cobbles		8" to 3"
Gravel	– Coarse	3" to 3/4"
	– Fine	2 mm. To 3/4"
Sand	– Coarse	2 mm. – 0.6 mm. (Pencil lead size)
	– Medium	0.6 mm. – 0.2mm. Table sugar and salt size)
	– Fine	0.2 mm. – 0.06 mm. (Powdered sugar and human hair size)
Silt		0.06 mm. – 0.002 mm.
Clay		0.002 and smaller (Particle size of both Silt and Clay not visible To naked eye

Soil Components

Major Component:	Minor Component Term
Gravel	Trace 1-10%
Sand	Some 11-35%
Silt	And 36-50%
Clay	

Moisture Content

Term	Relative Moisture
Dry	Powdery
Damp	Moisture content below plastic limit
Moist	Moisture content above plastic limit but below liquid limit
Wet	Moisture content Above liquid limit

Condition of Soil Relative to Compactness Granular Material

Very Loose	5 blows/ft. or less
Loose	6 to 10 blows/ft.
Medium Dense	11 to 30 blows/ft.
Dense	30 to 50 blows/ft.
Very Dense	51 blows/ft. or more

Condition of Soil Relative to Consistency Cohesive Material

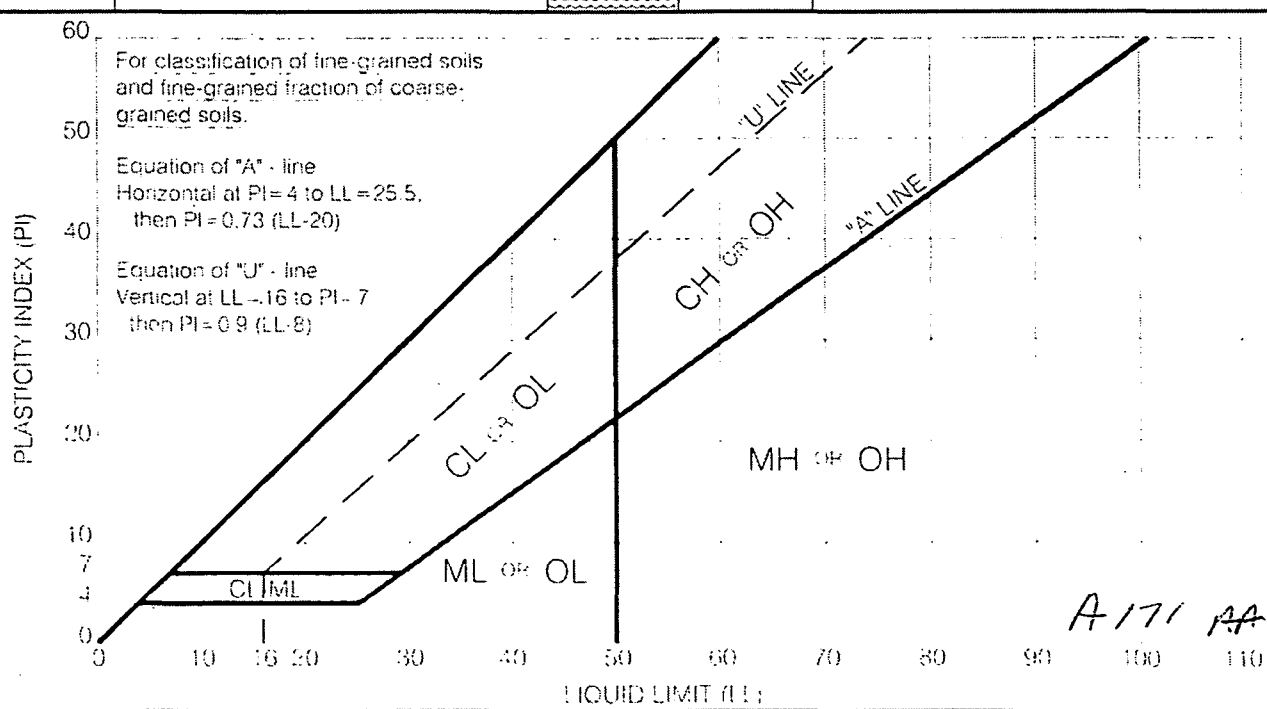
Very Soft	3 blows/ft. or less
Soft	4 to 5 blows/ft.
Medium Stiff	6 to 10 blows/ft.
Stiff	11 to 15 blows/ft.
Very stiff	16 to 30 blows/ft.
Hard	31 blows/ft. or more

A1112

BOWSER MORNER

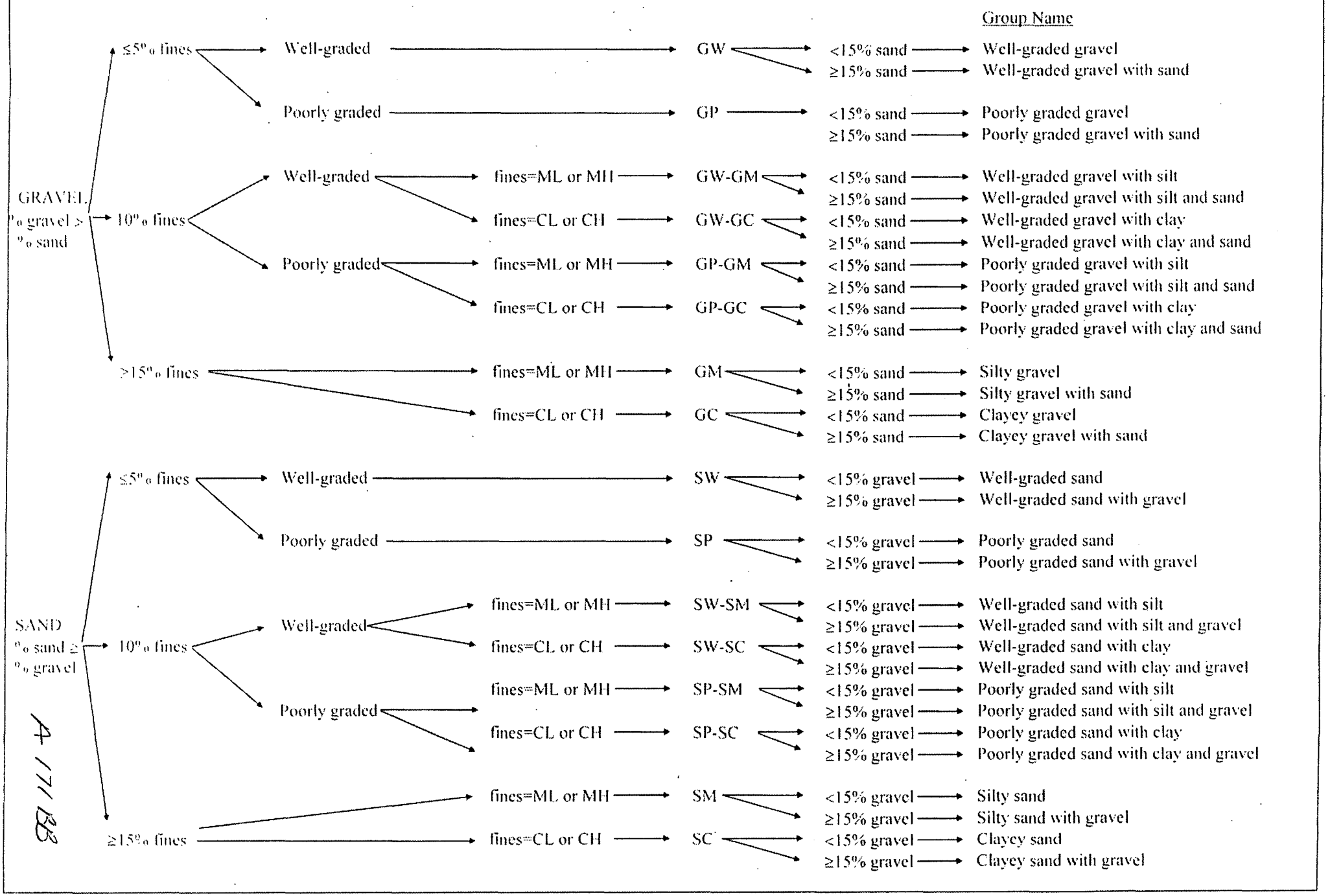
UNIFIED CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GRAPH SYMBOL	LETTER SYMBOL	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVEL WELL-GRADED GRAVEL WITH SAND
				GP	POORLY GRADED GRAVEL POORLY GRADED GRAVEL WITH SAND
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES APPRECIABLE AMT. OF FINES)		GM	SILTY GRAVEL SILTY GRAVEL WITH SAND
				GC	CLAYEY GRAVEL CLAYEY GRAVEL WITH SAND
	SAND AND SANDY SOILS	CLEAN SAND (LITTLE OR NO FINES)		SW	WELL-GRADED SAND WELL-GRADED SAND WITH GRAVEL
				SP	POORLY GRADED SAND POORLY GRADED SAND WITH GRAVEL
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMT. OF FINES)		SM	SILTY SAND SILTY SAND WITH GRAVEL
				SC	CLAYEY SAND CLAYEY SAND WITH GRAVEL
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILT AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	SILT, SILT WITH SAND, SANDY SILT GRAVELLY SILT, GRAVELLY SILT WITH SAND
				CL	LEAN CLAY WITH SAND, SANDY LEAN CLAY GRAVELLY LEAN CLAY WITH SAND
				OL	ORGANIC CLAY, SANDY ORGANIC CLAY ORGANIC SILT, SANDY ORGANIC SILT WITH GRAVEL
	SILT AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	ELASTIC SILT WITH SAND, SANDY ELASTIC SILT GRAVELLY ELASTIC SILT WITH SAND
				CH	FAT CLAY WITH SAND, SANDY FAT CLAY GRAVELLY FAT CLAY WITH SAND
				OH	ORGANIC CLAY WITH SAND, SANDY ORGANIC CLAY, ORGANIC SILT, SANDY ORGANIC SILT
	HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS



A171 AA

Flow Chart for Visually Identifying Soils Based on ASTM D-2488



A 171 B2

Flow Chart for Visually Identifying Soils Based on ASTM D-2488

				Group Name
CL	<30% plus No. 200	<15% plus No. 200		Lean clay
		15-25% plus No. 200	% sand ≥% gravel	Lean clay with sand
			% sand <% gravel	Lean clay with gravel
	≥30% plus No. 200	% sand ≥% gravel	<15% sand	Sandy lean clay
			≥15% sand	Sandy lean clay with gravel
		% sand <% gravel	<15% sand	Gravelly lean clay
			≥15% sand	Gravelly lean clay with sand
ML	<30% plus No. 200	<15% plus No. 200		Silt
		15-25% plus No. 200	% sand ≥% gravel	Silt with sand
			% sand <% gravel	Silt with gravel
	≥30% plus No. 200	% sand ≥% gravel	<15% sand	Sandy silt
			≥15% sand	Sandy silt with gravel
		% sand <% gravel	<15% sand	Gravelly silt
			≥15% sand	Gravelly silt with sand
CH	<30% plus No. 200	<15% plus No. 200		Fat clay
		15-25% plus No. 200	% sand ≥% gravel	Fat clay with sand
			% sand <% gravel	Fat clay with gravel
	≥30% plus No. 200	% sand ≥% gravel	<15% sand	Sandy fat clay
			≥15% sand	Sandy fat clay with gravel
		% sand <% gravel	<15% sand	Gravelly fat clay
			≥15% sand	Gravelly fat clay with sand
MH	<30% plus No. 200	<15% plus No. 200		Elastic silt
		15-25% plus No. 200	% sand ≥% gravel	Elastic silt with sand
			% sand <% gravel	Elastic silt with gravel
	≥30% plus No. 200	% sand ≥% gravel	<15% sand	Sandy elastic silt
			≥15% sand	Sandy elastic silt with gravel
		% sand <% gravel	<15% sand	Gravelly elastic silt
			≥15% sand	Gravelly elastic silt with sand

A171 e2

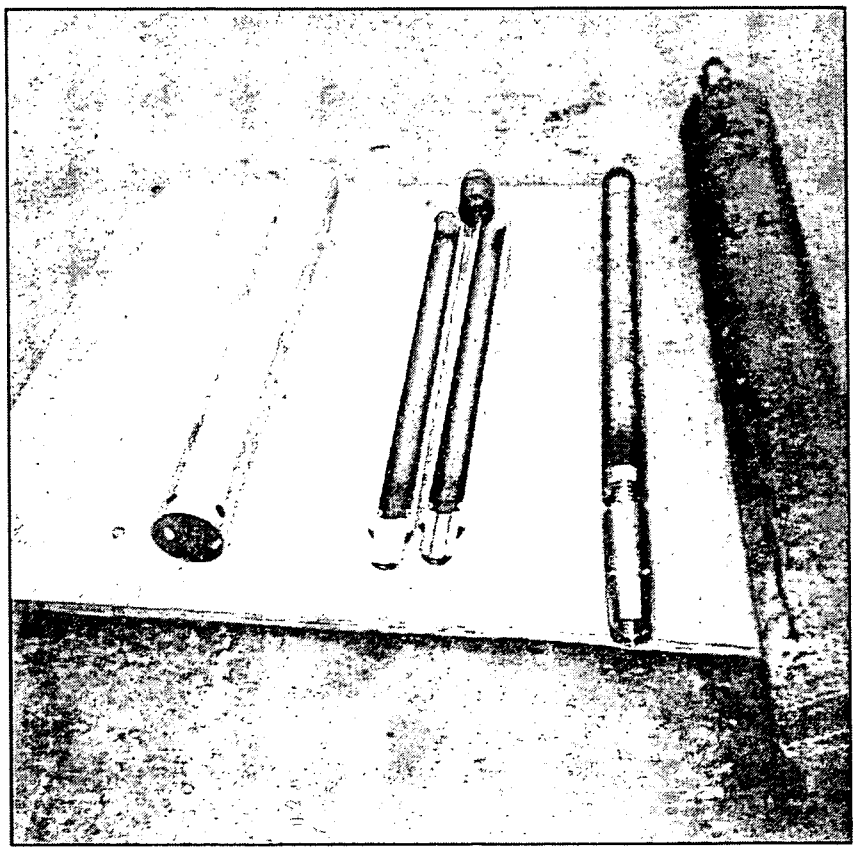
STANDARD PENETRATION RESISTANCE (ASTM D1586)

The purpose of this test is to determine the relative consistency of the soils in a boring, or from boring over the site. This method consists of making a hole in the ground and driving a 2-inch O.D. split spoon sampler into the soil with a 140-pound hammer dropped from a height of 30 inches. The sampler is driven 18 inches and the number of blows recorded for each 6 inches of penetration. Values of standard penetration (N) are determined in blows per foot, summarizing the flows required for the last two 6-inche increments of penetration.

Example : 2-6-8; N = 14

THIN-WALLED SAMPLER (ASTM D1587)

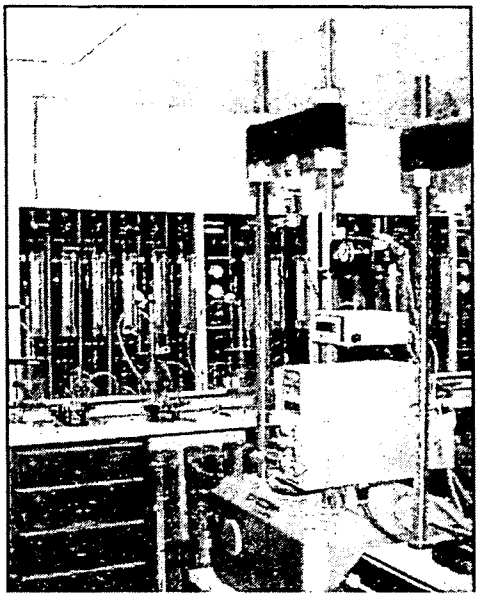
The purpose of the thin-walled sampler is to recover a relatively undisturbed soil sample for laboratory tests. The sampler is a thin-walled seamless tube with a 3-inch outside diameter, which is hydraulically pressed into the ground, at a constant rate. The ends are then sealed to prevent soil moisture loss, and the tube is returned to the laboratory for tests.



A171 DD

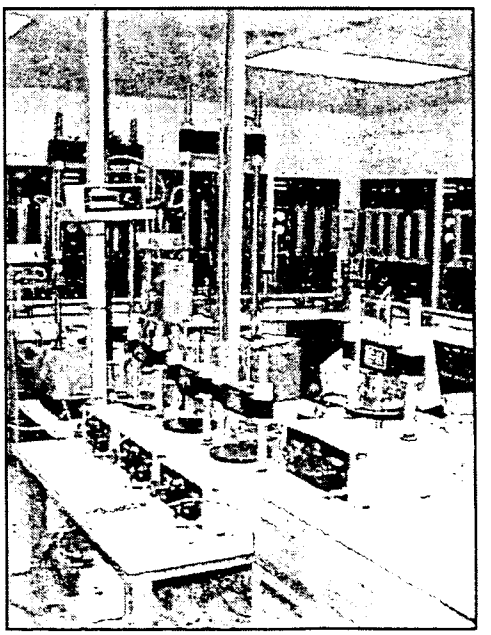
BOWSER MORNER

UNCONFINED COMPRESSION OR TRIAXIAL TESTS (ASTM D 2166)



The unconfined compression test and the triaxial tests are performed to determine the shearing strength of the soil, to use in establishing its safe bearing capacity. In order to perform the unconfined compression test, it is necessary that the soil exhibit sufficient cohesion to stand in an unsupported cylinder. These tests are normally performed on samples which are 6.0 inches in height and 2.85 inches in diameter. In the triaxial test, various lateral stresses can be applied to more closely simulate the actual field conditions. There are several different types of triaxial tests. These are, however, normally performed on constant strain apparatus with a deformation rate of 0.05 inches per minute.

CONSOLIDATION TEST (ASTM D 2435)



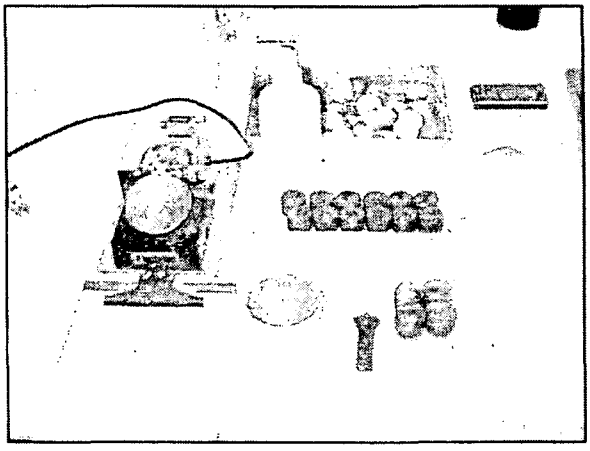
The purpose of this test is to determine the compressibility of the soil. This test is performed on a sample of soil which is 2.5 inches in diameter and 1.0 inch in height, and has been trimmed from relatively "undisturbed" samples. The test is performed with a lever system or an air activated piston for applying load. The loads are applied in increments and allowed to remain on the sample for a period of 24 hours. The consolidation of the sample under each individual load is measured and a curve of void ratio vs. Pressure is obtained. From the information obtained in this manner and the column loads of the structure, it is possible to calculate the settlement of each individual building column. This information, together with the shearing strength of the soil, is used to determine the safe bearing capacity for a particular structure.

A m EE

BOWSER MORNER

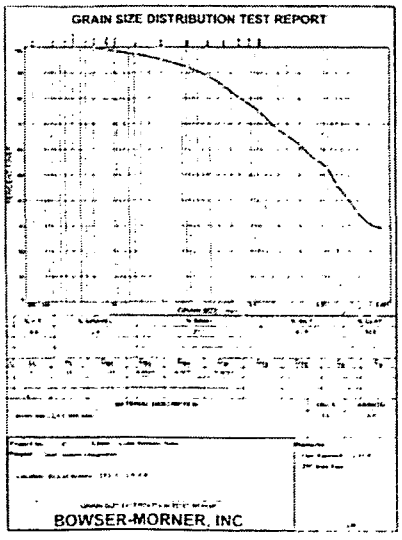
REVISED TO ASTM D4318
ATTERBERG LIMITS (ASTM D423 AND D424)

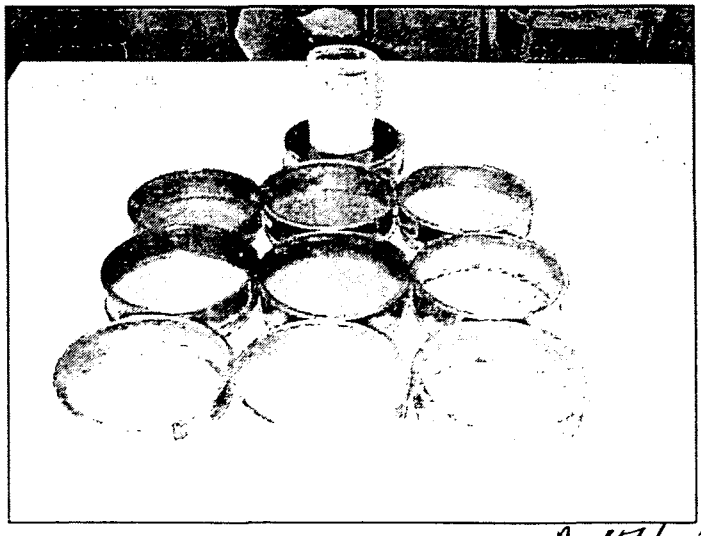
These tests determine the liquid and plastic limits of soils having a predominant percentage of fine particle (silt and clay) sizes. The liquid limit of a soil is the moisture content expressed as a percent at which the soil changes from a liquid to a plastic state, and the plastic limit is the moisture content at which the soil changes from a plastic to a semi-solid state. Their difference is defined as the plasticity index (P.I. = L.L. - P.L.), which is the change in moisture content required to change the soil from a "semi-solid" to a liquid. These tests furnish information about the soil properties which is important in determining their relative swelling potential and their classifications.



MECHANICAL ANALYSIS (ASTM D422)

This test determines the percent of each particle size of a soil. A sieve analysis is conducted on particle sizes greater than a No. 200 sieve (0.074 mm), and a hydrometer test on particles smaller than the No.200 sieve. The gradation curve is drawn through the points of cumulative percent of particle size, and plotted on semi-logarithmic paper for the combined sieve and hydrometer analysis. This test, together with the Atterberg Limits tests, is used to classify a soil.



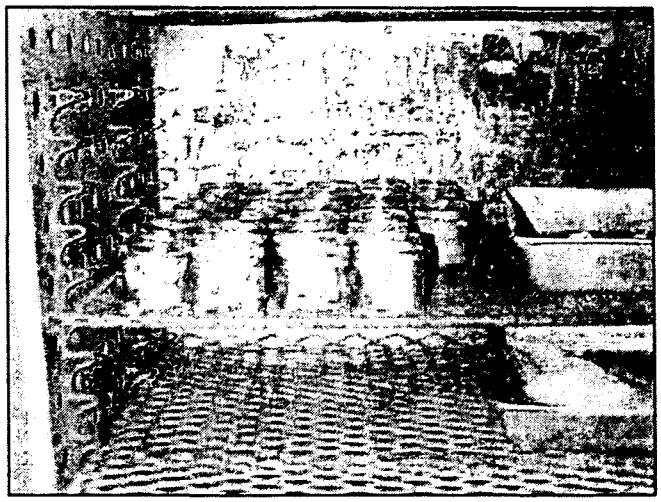


A 171 FF

BOWSER MORNER

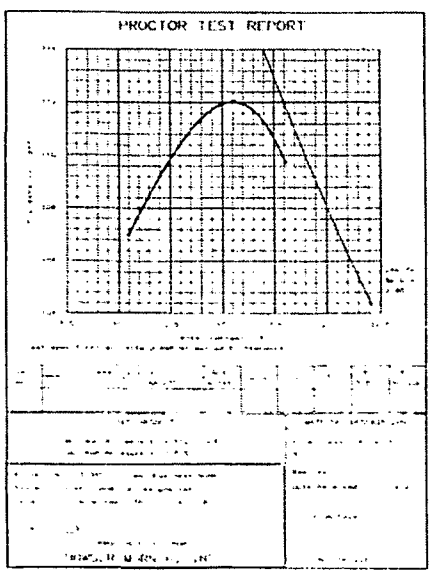
NATURAL MOISTURE CONTENT (ASTM D2216)

The purpose of this test is to indicate the range of moisture contents present in the soil. A wet sample is weighed, placed in the constant temperature oven at 105° for 24 hours, and re-weighed. The moisture content is the change in weight divided by the dry weight.



PROCTOR TESTS

The purpose of these tests is to determine the maximum density and optimum moisture content of a soil. The Modified Proctor test is performed in accordance with ASTM D1557-70. The test is performed by dropping a 10-pound hammer 25 times from an 18-inch height on each of 5 equal layers of soil in a 1/30 cubic foot mold, which represents a compaction effort of 56,250 foot pounds per cubic foot. The moisture content is then raised, and this procedure is repeated. A moisture density curve is then plotted, with the density on the ordinate axis and the moisture on the abscissa axis. The moisture content at which the maximum density requirement can be achieved with a minimum compactive effort is designated as the optimum moisture content (O.M.C.). The Standard Proctor test is performed in accordance with ASTM D698-70. This test is similar to the Modified Proctor test and is performed by dropping a 5.5 pound hammer 25 times from a height of 12 inches on 3 equal layers of soil in a 1/30 cubic foot mold, which represents a compaction effort of 12,375 foot pounds per cubic foot. This test gives proportionately lower results than the Modified Proctor test.



A171GG

BOWSER MORNER

CLIENT	JOB NO.		
CH2M HILL MOUND INC	134305		
PROJECT	BORING STARTED 6/1/05	BORING COMPLETED 6/1/05	1
CONSULTATION FOR SOIL REMOVAL, MOUND FACILITY, MIAMISBURG, OHIO	DRILLER MJ	METHOD 3 1/4" HSA	Boring No.
	TYPED BY kmw		Sheet 1 of 2

PROJECT LOCATION
LAT. LONG.
SURFACE ELEVATION
BORING LOCATION
As shown on Boring Location Plan.
It has been necessary to interpolate between samples. Therefore, the contacts between the various soil strata should not be taken as absolute.

DEPTH	SAMPLE NO.	SAMPLER TYPE / RECOVERY	GRAPHIC LOG	VISUAL CLASSIFICATION OF THE MATERIAL	BLOW COUNTS	N VALUE, blows/ft. (10 20 30 40 50 60 70 80 90)	REMARKS
				(FILL) TOPSOIL			
1.0	1A			(FILL) Medium stiff brown lean CLAY (trace sand, trace gravel) - moist	3 3 5	8	
2.0							
3.0							
4.0	2A			(FILL) Very stiff brown and gray sandy lean CLAY (trace gravel) - damp	4 10 12	22	
5.0							
6.0							
7.0							
8.0							
9.0	3A			(Becomes hard at 8.5')	9 28 18	46	
10.0							
11.0							
12.0							
13.0							
14.0	4A			(Becomes very stiff at 13.5')	6 10 13	23	
15.0							
16.0							
17.0							
18.0				(FILL) Hard brown sandy lean CLAY (trace gravel) - damp	11 15 18	33	
19.0	5A						
20.0							
21.0							
22.0							

Continued Next Page

A 171 HH

WATER LEVEL MEASUREMENTS

	DEPTH	DATE
INITIAL	NONE	6/1/2005
AT COMPLETION	NONE	6/1/2005
OTHER	N/A	N/A

A — SPLIT SPOON
B — ROCK CORE
C — SHELBY TUBE
D — SOIL PROBE
E — AUGER CUTTINGS
F — SONIC

4518 TAYLORSVILLE ROAD
PO BOX 51
DAYTON, OHIO 45424
PH 937.236.8805
FAX 937.233.2016
BOWSER MORNER

GINT Report Used: NEWLOGIN Report No.: 134305-0705-198.GPJ GINT Template Used: NEWLOGIN.GDT Date Printed: 7/20/05

CLIENT	JOB NO.		
CH2M HILL MOUND INC	134305		
PROJECT	BORING STARTED 6/1/05	BORING COMPLETED 6/1/05	1
CONSULTATION FOR SOIL REMOVAL, MOUND FACILITY, MIAMISBURG, OHIO	DRILLER MJ	METHOD 3 1/4" HSA	Boring No.
	TYPED BY kmw		Sheet 2 of 2

PROJECT LOCATION
LAT. LONG.
SURFACE ELEVATION
BORING LOCATION
As shown on Boring Location Plan.
It has been necessary to interpolate between samples. Therefore, the contacts between the various soil strata should not be taken as absolute.

DEPTH	SAMPLE NO.	SAMPLER TYPE / RECOVERY	GRAPHIC LOG	VISUAL CLASSIFICATION OF THE MATERIAL	BLOW COUNTS	COMMENTS / N VALUE, blows/ft. (10 20 30 40 50 60 70 80 90)	REMARKS
23.0				(FILL) Dense brown sandy lean CLAY (trace gravel) - damp			
24.0	6A			(ORIGINAL) Very stiff gray sandy lean CLAY (trace gravel) - damp	9 11 13	◇24	
25.0							
26.0							
27.0							
28.0				Very stiff brown lean CLAY with sand (trace gravel) - moist			
29.0	7A				4 6 10	◇16	
30.0							
31.0							
32.0							
33.0				Very dense brown silty SAND (trace gravel) - damp			
34.0	8A				15 20 17	◇37	
35.0							
36.0				Apparent BEDROCK (Auger refual at 36.0')			
				Bottom of boring at 36.0 feet			
37.0							
38.0							
39.0							
40.0							
41.0							
42.0							
43.0							
44.0							
45.0							
46.0							
47.0							
48.0							

AM II

GINT Report Used: NEWLOGIN Report No.: 134305-0705-198.GPJ GINT Template Used: NEWLOGIN.GDT Date Printed: 7/20/05

CLIENT	JOB NO.		
CH2M HILL MOUND INC	134305		
PROJECT	BORING STARTED 6/1/05	BORING COMPLETED 6/1/05	2
CONSULTATION FOR SOIL REMOVAL, MOUND FACILITY, MIAMISBURG, OHIO	DRILLER MJ	METHOD 3 1/4" HSA	Boring No.
	TYPED BY kmw		Sheet 1 of 2

PROJECT LOCATION
LAT. LONG.
SURFACE ELEVATION
BORING LOCATION
As shown on Boring Location Plan.
It has been necessary to interpolate between samples. Therefore, the contacts between the various soil strata should not be taken as absolute.

DEPTH	SAMPLE NO.	SAMPLER TYPE / RECOVERY	GRAPHIC LOG	VISUAL CLASSIFICATION OF THE MATERIAL	BLOW COUNTS	N VALUE, blows/ft. (10 20 30 40 50 60 70 80 90)	COMMENTS	REMARKS
				(FILL) TOPSOIL				
1.0	1A			(FILL) Stiff brown sandy lean CLAY (trace gravel) - damp	5 8 7	15		
2.0								
3.0				(FILL) Very stiff brown and gray sandy CLAY and silt (trace pebbles) - moist				
4.0	2A				8 10 10	20		
5.0								
6.0								
7.0								
8.0								
9.0	3A			(Trace cobbles at 8.5')	3 7 17	24		
10.0								
11.0								
12.0								
13.0								
14.0	4A			(Becomes hard at 13.5')	14 17 23	40		
15.0								
16.0								
17.0								
18.0								
19.0	5A			(Becomes stiff at 18.5') (Water was used to facilitate the boring)	8 8 7	15		
20.0								
21.0								
22.0								

Continued Next Page

A171 JJ

WATER LEVEL MEASUREMENTS

	DEPTH	DATE
INITIAL	NONE	6/1/2005
AT COMPLETION	NONE	6/1/2005
OTHER	N/A	N/A

A — SPLIT SPOON
B — ROCK CORE
C — SHELBY TUBE
D — SOIL PROBE
E — AUGER CUTTINGS
F — SONIC

4518 TAYLORSVILLE ROAD
PO BOX 51
DAYTON, OHIO 45424
PH 937.236.8805
FAX 937.233.2016
BOWSER MORNER®

GINT Report Used: NEWLOGIN Report No.: 134305-0705-198.GPJ GINT Template Used: NEWLOGIN.GDT Date Printed: 7/20/05

CLIENT
CH2M HILL MOUND INC

PROJECT
CONSULTATION FOR SOIL REMOVAL, MOUND FACILITY, MIAMISBURG, OHIO

JOB NO.	
134305	
BORING STARTED 6/1/05	BORING COMPLETED 6/1/05
DRILLER MJ	METHOD 3 1/4" HSA
TYPED BY kmw	

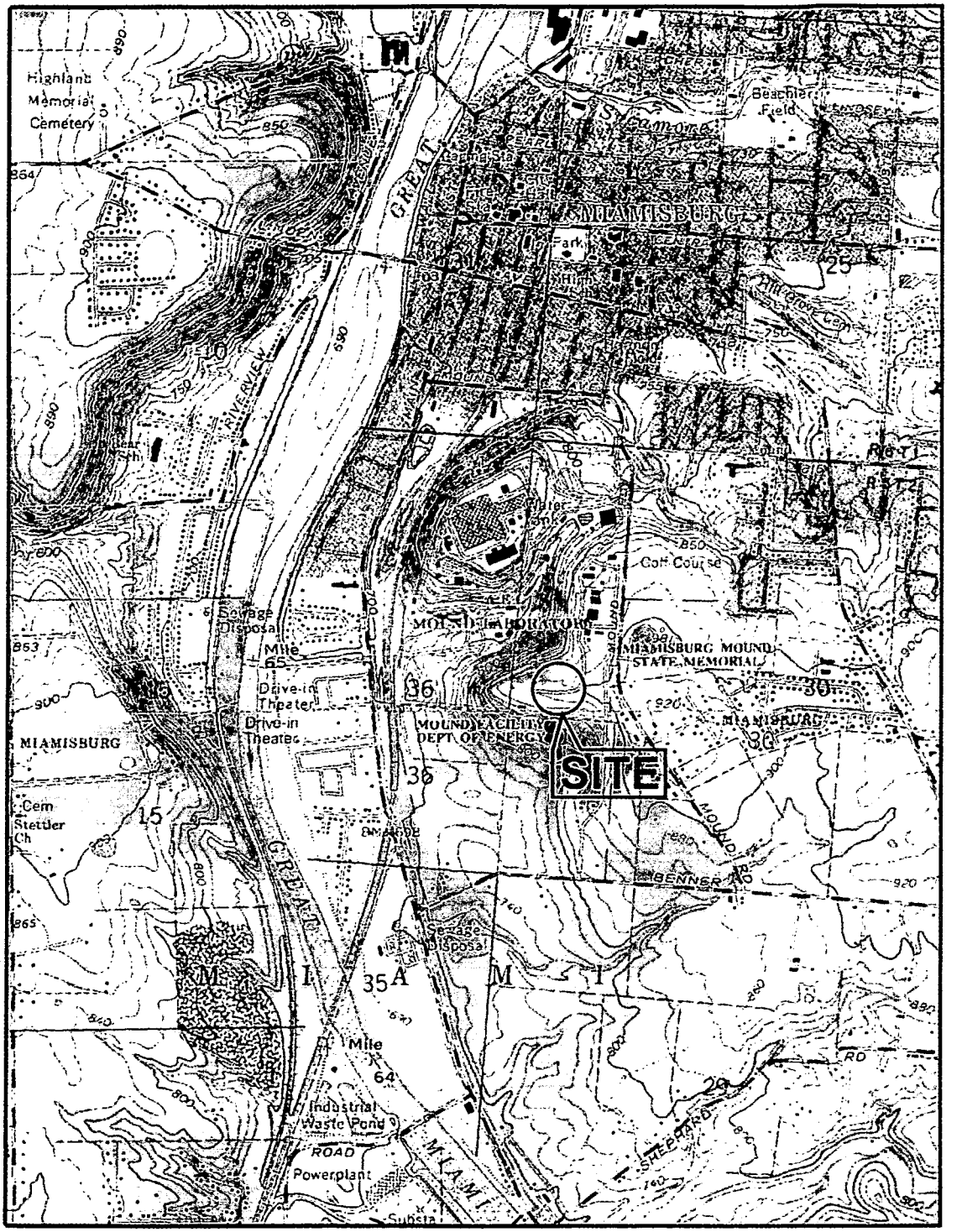
2
Boring No.
Sheet 2 of 2

PROJECT LOCATION
LAT. LONG.
SURFACE ELEVATION
BORING LOCATION
As shown on Boring Location Plan.
It has been necessary to interpolate between samples. Therefore, the contacts between the various soil strata should not be taken as absolute.

DEPTH	SAMPLE NO.	SAMPLER TYPE / RECOVERY	GRAPHIC LOG	VISUAL CLASSIFICATION OF THE MATERIAL	BLOW COUNTS	N VALUE, blows/ft. (10 20 30 40 50 60 70 80 90)	REMARKS
23.0							
24.0	6A			(ORIGINAL) Very stiff brown sandy lean CLAY (trace gravel) - damp	10 10 16	26	
25.0							
26.0							
27.0							
28.0							
29.0	7A				8 11 13	24	
30.0							
31.0							
32.0							
33.0							
34.0	8A				6 6 10	16	
35.0							
36.0							
37.0							
38.0				Medium stiff brown sandy lean CLAY (trace gravel) - moist			
39.0	9A				1 2 7	9	
40.0							
41.0							
42.0							
43.0				Stiff olive gray lean CLAY with sand (trace gravel) - moist			
44.0	10A				4 4 7	11	
45.0				Bottom of boring at 45.0 feet			
46.0							
47.0							
48.0							

A171 KK

GINT Report Used: NEWLOGIN Report No.: 134305-0705-198.GPJ GINT Template Used: NEWLOGIN.GDT Date Printed: 7/20/05



USGS QUAD: MIAMISBURG AND FRANKLIN, OHIO

LATITUDE: 39°37'33"N LONGITUDE: 84°17'02"W

VICINITY MAP

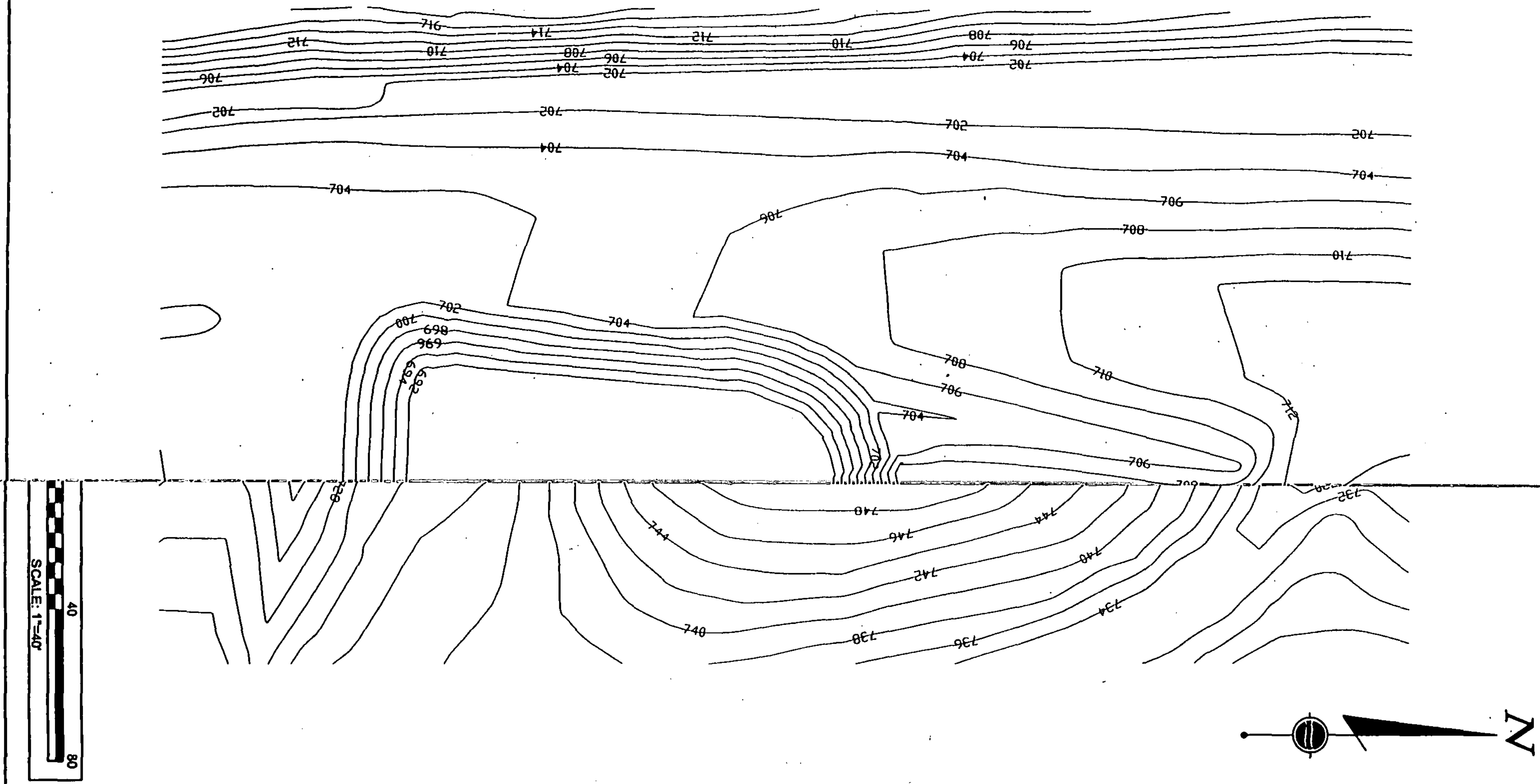
Consultation for Soil Removal,
Mound Facility,
Miamisburg, Ohio

Client: CH2M Hill Mound, Inc.

07-05/HGW

PROJECT NO.	134305
SCALE	1"=2000'
FIGURE NO.	1

BOWSER MORNER.
4518 Taylorsville Road
Dayton, Ohio 45424
Ph 937-236-8805
Fax 937-233-2016



PLAN

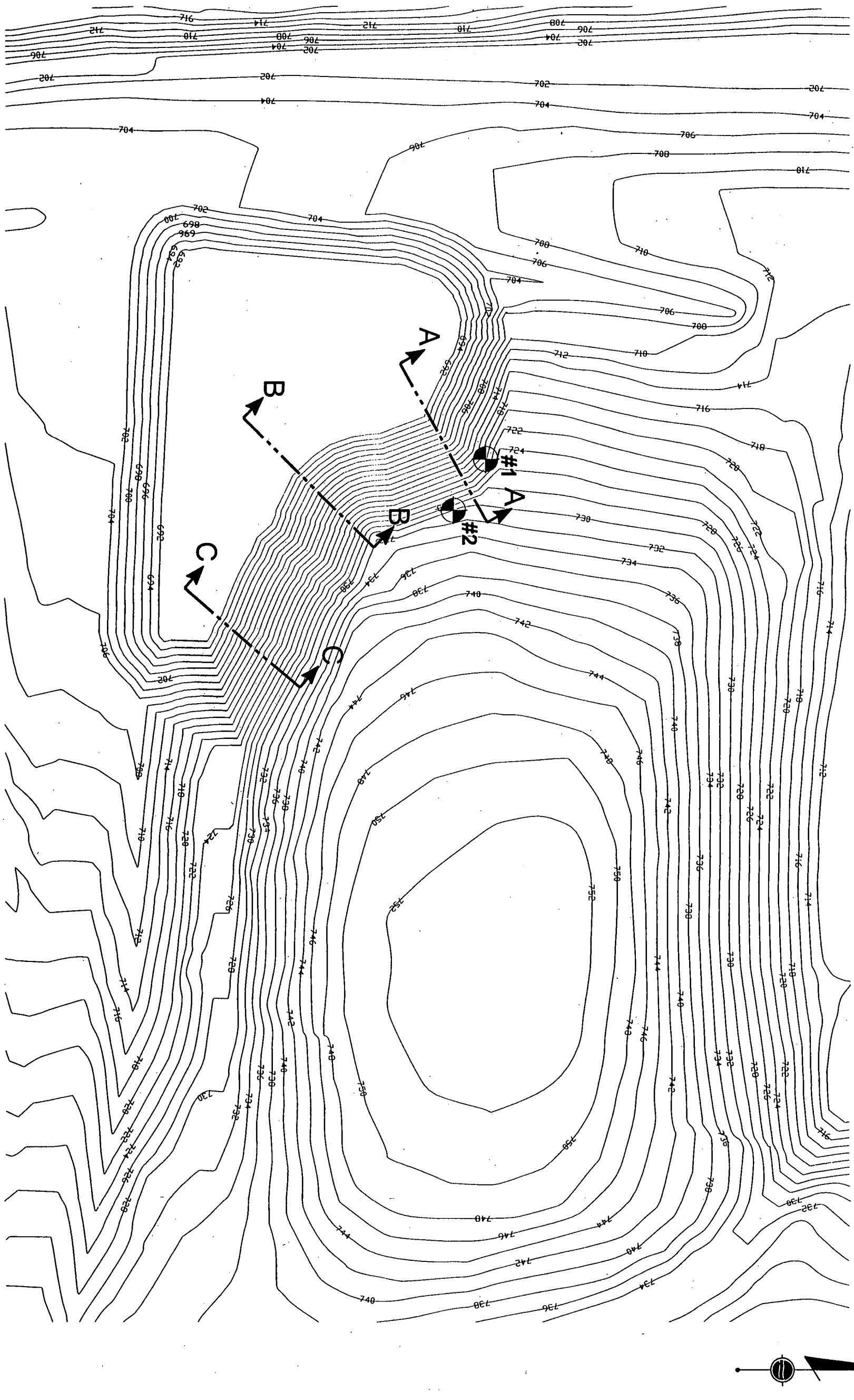
Consultation for Soil Removal,
Mound Facility,
Miamisburg, Ohio

Client: CH2M Hill Mound, Inc.

06-05/SR

PROJECT NO.	134305
SCALE	GRAPHIC
FIGURE NO.	2

BOWSER MORNER.
4518 Taylorsville Road
Dayton, Ohio 45424
Ph 937-236-8805
Fax 937-233-2016



PLAN

Consultation for Soil Removal,
Mound Facility,
Miamisburg, Ohio

Client: CH2M Hill Mound, Inc.

06-05/SR

PROJECT NO.	134305
SCALE	GRAPHIC
FIGURE NO.	2

BOWSER MORNER.
4518 Taylorsville Road
Dayton, Ohio 45424
Ph 937-236-8805
Fax 937-233-2016

A 17177

APPENDIX B

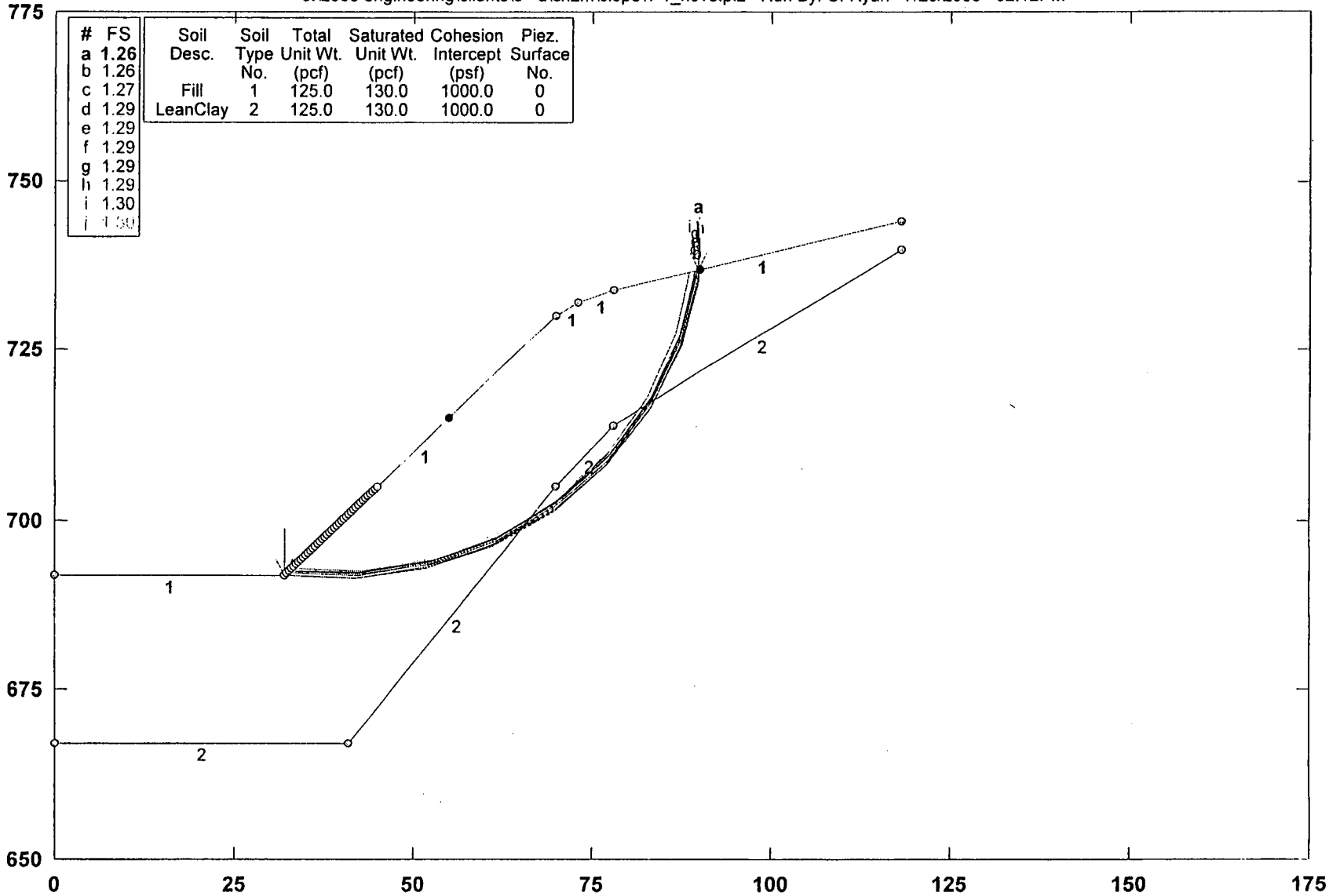
STABL COMPUTER OUTPUT

A 11 MM

BOWSER MORNER®

CH2M Hill 1 to 1 Slope (No Vertical)

e:\2005 engineering\clients\c - d\ch2m\slope\1-1_nove.pl2 Run By: C. Ryan 7/20/2005 02:12PM



#	FS
a	1.26
b	1.26
c	1.27
d	1.29
e	1.29
f	1.29
g	1.29
h	1.29
i	1.30
j	1.30

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Piez. Surface No.
Fill	1	125.0	130.0	1000.0	0
LeanClay	2	125.0	130.0	1000.0	0

STABL6H FSmin=1.26

Safety Factors Are Calculated By The Modified Bishop Method

BOWSER MORNER®

COMMITTED TO EXCELLENCE SINCE 1911

A1/1N

** STABL6H **
by
Purdue University
--Slope Stability Analysis--
Simplified Janbu, Simplified Bishop
or Spencer`s Method of Slices

Run Date: 7/20/2005
Time of Run: 02:12PM
Run By: C. Ryan
Input Data Filename: e:1-1_nove.in
Output Filename: e:1-1_nove.OUT
Plotted Output Filename: e:1-1_nove.PLT
PROBLEM DESCRIPTION CH2M Hill
1 to 1 Slope (No Vertical)

BOUNDARY COORDINATES
Note: User origin value specified.
Add 0.00 to X-values and 650.00 to Y-values listed.

5 Top Boundaries
9 Total Boundaries

Boundary No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Soil Type Below Bnd
1	.00	42.00	32.00	42.00	1
2	32.00	42.00	70.00	80.00	1
3	70.00	80.00	73.00	82.00	1
4	73.00	82.00	78.00	84.00	1
5	78.00	84.00	118.00	94.00	1
6	.00	17.00	41.00	17.00	2
7	41.00	17.00	70.00	55.00	2
8	70.00	55.00	78.00	64.00	2
9	78.00	64.00	118.00	90.00	2

ISOTROPIC SOIL PARAMETERS
2 Type(s) of Soil

Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Pore Pressure Param.	Pressure Constant (psf)	Piez. Surface No.
1	125.0	130.0	1000.0	.0	.00	.0	0
2	125.0	130.0	1000.0	.0	.00	.0	0

A Critical Failure Surface Searching Method, Using A Random
Technique For Generating Circular Surfaces, Has Been Specified.
1600 Trial Surfaces Have Been Generated.
40 Surfaces Initiate From Each Of 40 Points Equally Spaced
Along The Ground Surface Between X = 32.00 ft.
and X = 45.00 ft.
Each Surface Terminates Between X = 55.00 ft.
and X = 90.00 ft.
Unless Further Limitations Were Imposed, The Minimum Elevation
At Which A Surface Extends Is Y = .00 ft.
10.00 ft. Line Segments Define Each Trial Failure Surface.
Following Are Displayed The Ten Most Critical Of The Trial
Failure Surfaces Examined. They Are Ordered - Most Critical
First.
* * Safety Factors Are Calculated By The Modified Bishop Method * *
Failure Surface Specified By 10 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.00	42.00
2	41.99	41.54
3	51.88	43.04
4	61.28	46.44
5	69.84	51.61
6	77.22	58.36
7	83.15	66.41
8	87.38	75.47
9	89.77	85.18
10	89.85	86.96

Circle Center At X = 39.3 ; Y = 92.4 and Radius, 51.0

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*** 1.261 ***

Failure Surface Specified By 10 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.00	42.00
2	41.99	41.49
3	51.88	42.96
4	61.28	46.36
5	69.83	51.55
6	77.19	58.32
7	83.06	66.42
8	87.21	75.52
9	89.48	85.25
10	89.53	86.88

Circle Center At X = 39.6 ; Y = 91.8 and Radius, 50.4

*** 1.264 ***

Failure Surface Specified By 10 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.00	42.00
2	41.99	41.57
3	51.87	43.12
4	61.25	46.59
5	69.76	51.84
6	77.07	58.66
7	82.89	66.80
8	86.98	75.92
9	89.20	85.67
10	89.23	86.81

Circle Center At X = 39.2 ; Y = 91.9 and Radius, 50.4

*** 1.271 ***

Failure Surface Specified By 10 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.67	42.67
2	42.65	42.17
3	52.54	43.69
4	61.92	47.16
5	70.41	52.43
6	77.67	59.31
7	83.41	67.50
8	87.39	76.68
9	89.44	86.46
10	89.45	86.86

Circle Center At X = 40.1 ; Y = 91.7 and Radius, 49.6

*** 1.285 ***

Failure Surface Specified By 10 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.33	42.33
2	42.33	42.05
3	52.19	43.72
4	61.53	47.29
5	70.00	52.61
6	77.27	59.48
7	83.05	67.64
8	87.13	76.76
9	89.36	86.51
10	89.37	86.84

Circle Center At X = 38.8 ; Y = 92.9 and Radius, 51.0

*** 1.285 ***

Failure Surface Specified By 10 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.67	42.67
2	42.66	42.34
3	52.53	43.99

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4	61.87	47.54
5	70.34	52.86
6	77.60	59.74
7	83.37	67.91
8	87.42	77.05
9	89.60	86.81
10	89.60	86.90

Circle Center At X = 39.3 ; Y = 92.9 and Radius, 50.7
*** 1.289 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.67	42.67
2	42.66	42.33
3	52.53	43.97
4	61.87	47.53
5	70.33	52.87
6	77.56	59.77
7	83.28	67.98
8	87.27	77.15
9	89.34	86.84

Circle Center At X = 39.4 ; Y = 92.5 and Radius, 50.3
*** 1.293 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	33.00	43.00
2	42.99	42.66
3	52.86	44.30
4	62.21	47.84
5	70.69	53.15
6	77.95	60.02
7	83.73	68.18
8	87.79	77.32
9	89.96	86.99

Circle Center At X = 39.7 ; Y = 93.2 and Radius, 50.7
*** 1.294 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.33	42.33
2	42.33	42.05
3	52.18	43.77
4	61.50	47.40
5	69.91	52.81
6	77.07	59.79
7	82.71	68.04
8	86.60	77.26
9	88.49	86.62

Circle Center At X = 38.7 ; Y = 92.0 and Radius, 50.1
*** 1.298 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.67	42.67
2	42.67	42.66
3	52.49	44.53
4	61.79	48.22
5	70.22	53.59
6	77.50	60.45
7	83.35	68.56
8	87.58	77.62
9	89.95	86.99

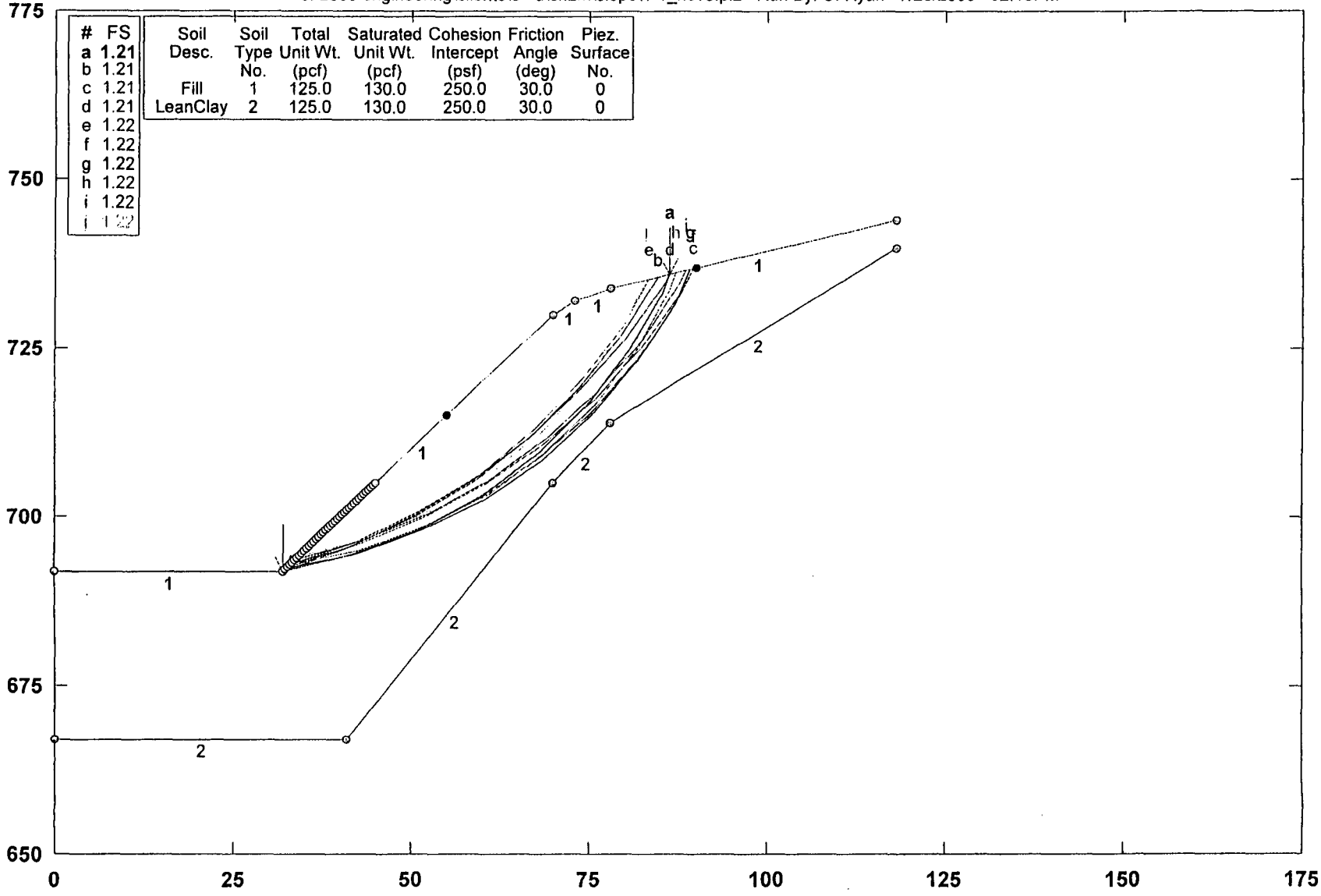
Circle Center At X = 37.7 ; Y = 95.4 and Radius, 52.9
*** 1.299 ***

A 171 QQ

A171 RR

CH2M Hill 1 to 1 Slope (No Vertical)

e:\2005 engineering\clients\c - d\ch2m\slope\1-1_nove.pl2 Run By: C. Ryan 7/20/2005 02:18PM



#	FS
a	1.21
b	1.21
c	1.21
d	1.21
e	1.22
f	1.22
g	1.22
h	1.22
i	1.22
j	1.22

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Piez. Surface No.
Fill	1	125.0	130.0	250.0	30.0	0
LeanClay	2	125.0	130.0	250.0	30.0	0

STABL6H FSmin=1.21

Safety Factors Are Calculated By The Modified Bishop Method

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** STABL6H **
by
Purdue University
--Slope Stability Analysis--
Simplified Janbu, Simplified Bishop
or Spencer`s Method of Slices

Run Date: 7/20/2005
Time of Run: 02:18PM
Run By: C. Ryan
Input Data Filename: e:1-1_nove.in
Output Filename: e:1-1_nove.OUT
Plotted Output Filename: e:1-1_nove.PLT
PROBLEM DESCRIPTION CH2M Hill
1 to 1 Slope (No Vertical)

BOUNDARY COORDINATES
Note: User origin value specified.
Add 0.00 to X-values and 650.00 to Y-values listed.

5 Top Boundaries
9 Total Boundaries

Boundary No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Soil Type Below Bnd
1	.00	42.00	32.00	42.00	1
2	32.00	42.00	70.00	80.00	1
3	70.00	80.00	73.00	82.00	1
4	73.00	82.00	78.00	84.00	1
5	78.00	84.00	118.00	94.00	1
6	.00	17.00	41.00	17.00	2
7	41.00	17.00	70.00	55.00	2
8	70.00	55.00	78.00	64.00	2
9	78.00	64.00	118.00	90.00	2

ISOTROPIC SOIL PARAMETERS
2 Type(s) of Soil

Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Pore Pressure Param.	Pressure Constant (psf)	Piez. Surface No.
1	125.0	130.0	250.0	30.0	.00	.0	0
2	125.0	130.0	250.0	30.0	.00	.0	0

A Critical Failure Surface Searching Method, Using A Random
Technique For Generating Circular Surfaces, Has Been Specified.
1600 Trial Surfaces Have Been Generated.
40 Surfaces Initiate From Each Of 40 Points Equally Spaced
Along The Ground Surface Between X = 32.00 ft.
and X = 45.00 ft.
Each Surface Terminates Between X = 55.00 ft.
and X = 90.00 ft.
Unless Further Limitations Were Imposed, The Minimum Elevation
At Which A Surface Extends Is Y = .00 ft.
10.00 ft. Line Segments Define Each Trial Failure Surface.
Following Are Displayed The Ten Most Critical Of The Trial
Failure Surfaces Examined. They Are Ordered - Most Critical
First.
* * Safety Factors Are Calculated By The Modified Bishop Method * *
Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.00	42.00
2	41.72	44.36
3	51.01	48.06
4	59.69	53.02
5	67.60	59.15
6	74.57	66.32
7	80.47	74.39
8	85.18	83.21
9	86.22	86.05

Circle Center At X = 20.0 ; Y = 112.4 and Radius, 71.4
*** 1.206 ***

A171 TT

Failure Surface Specified By 8 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.33	42.33
2	41.77	45.65
3	50.75	50.05
4	59.14	55.49
5	66.83	61.89
6	73.70	69.15
7	79.68	77.17
8	84.54	85.63

Circle Center At X = 9.1 ; Y = 123.4 and Radius, 84.4
*** 1.210 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.00	42.00
2	41.70	44.42
3	51.02	48.04
4	59.82	52.81
5	67.94	58.64
6	75.26	65.45
7	81.68	73.12
8	87.07	81.54
9	89.62	86.90

Circle Center At X = 17.7 ; Y = 120.1 and Radius, 79.4
*** 1.212 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.00	42.00
2	41.35	45.54
3	50.29	50.03
4	58.71	55.43
5	66.52	61.67
6	73.64	68.69
7	80.00	76.41
8	85.52	84.75
9	86.20	86.05

Circle Center At X = 2.7 ; Y = 133.6 and Radius, 96.2
*** 1.212 ***

Failure Surface Specified By 8 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	33.00	43.00
2	42.43	46.32
3	51.38	50.79
4	59.71	56.32
5	67.29	62.85
6	74.00	70.26
7	79.75	78.44
8	83.42	85.36

Circle Center At X = 10.9 ; Y = 120.6 and Radius, 80.7
*** 1.219 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	33.00	43.00
2	42.59	45.83
3	51.79	49.76
4	60.47	54.72
5	68.52	60.65
6	75.83	67.47
7	82.30	75.10
8	87.85	83.42
9	89.63	86.91

Circle Center At X = 13.4 ; Y = 127.0 and Radius, 86.3

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*** 1.219 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	32.33	42.33
2	42.11	44.45
3	51.50	47.89
4	60.34	52.57
5	68.45	58.41
6	75.70	65.30
7	81.94	73.12
8	87.05	81.71
9	89.21	86.80

Circle Center At X = 21.7 ; Y = 114.8 and Radius, 73.2

*** 1.220 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	33.00	43.00
2	42.79	45.06
3	52.16	48.55
4	60.91	53.39
5	68.85	59.48
6	75.79	66.67
7	81.60	74.81
8	86.14	83.72
9	86.99	86.25

Circle Center At X = 24.0 ; Y = 109.7 and Radius, 67.3

*** 1.224 ***

Failure Surface Specified By 9 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	33.67	43.67
2	43.26	46.48
3	52.45	50.44
4	61.08	55.49
5	69.03	61.56
6	76.18	68.55
7	82.42	76.36
8	87.66	84.88
9	88.46	86.61

Circle Center At X = 15.5 ; Y = 123.4 and Radius, 81.8

*** 1.224 ***

Failure Surface Specified By 8 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	34.00	44.00
2	43.61	46.77
3	52.71	50.91
4	61.10	56.35
5	68.60	62.97
6	75.05	70.61
7	80.31	79.12
8	82.93	85.23

Circle Center At X = 20.1 ; Y = 110.4 and Radius, 67.9

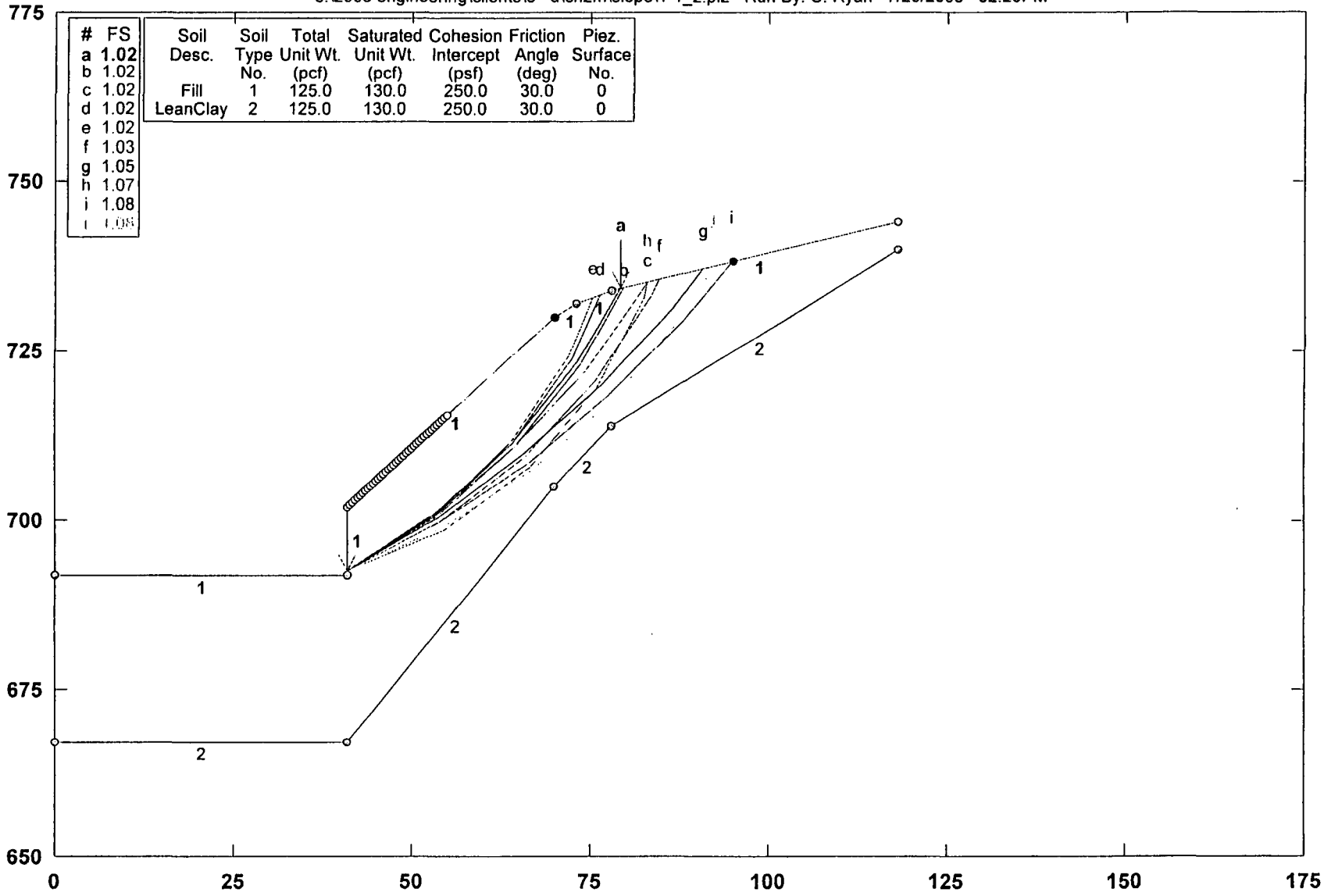
*** 1.224 ***

A171 YV

A171 WW

CH2M Hill 1 to 1 Slope

e:\2005 engineering\clients\c - d\ch2m\slope\1-1_2.pl2 Run By: C. Ryan 7/20/2005 02:20PM



STABL6H FSmin=1.02

Safety Factors Are Calculated By The Modified Bishop Method

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A171 XX

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                    ** STABL6H  **
                          by
                  Purdue University
            --Slope Stability Analysis--
         Simplified Janbu, Simplified Bishop
            or Spencer`s Method of Slices
Run Date:                  7/20/2005
Time of Run:               02:20PM
Run By:                    C. Ryan
Input Data Filename:       e:1-1_2.in
Output Filename:           e:1-1_2.OUT
Plotted Output Filename:   e:1-1_2.PLT
PROBLEM DESCRIPTION   CH2M Hill
                      1 to 1 Slope
BOUNDARY COORDINATES
     Note: User origin value specified.
     Add 0.00 to X-values and 650.00 to Y-values listed.

    6 Top   Boundaries
   10 Total Boundaries
Boundary     X-Left     Y-Left    X-Right    Y-Right    Soil Type
   No.        (ft)       (ft)       (ft)       (ft)     Below Bnd
    1          .00      42.00      41.00      42.00        1
    2        41.00      42.00      41.01      52.00        1
    3        41.01      52.00      70.00      80.00        1
    4        70.00      80.00      73.00      82.00        1
    5        73.00      82.00      78.00      84.00        1
    6        78.00      84.00     118.00      94.00        1
    7          .00      17.00      41.00      17.00        2
    8        41.00      17.00      70.00      55.00        2
    9        70.00      55.00      78.00      64.00        2
   10        78.00      64.00     118.00      90.00        2
ISOTROPIC SOIL PARAMETERS
  2 Type(s) of Soil
 Soil  Total  Saturated  Cohesion Friction   Pore   Pressure   Piez.
 Type Unit Wt. Unit Wt. Intercept   Angle  Pressure Constant Surface
  No.  (pcf)    (pcf)     (psf)     (deg)   Param.    (psf)    No.
   1   125.0    130.0     250.0     30.0     .00        .0      0
   2   125.0    130.0     250.0     30.0     .00        .0      0
 A Critical Failure Surface Searching Method, Using A Random
 Technique For Generating Circular Surfaces, Has Been Specified.
1600 Trial Surfaces Have Been Generated.
  40 Surfaces Initiate From Each Of 40 Points Equally Spaced
 Along The Ground Surface Between  X =  41.00 ft.
                              and  X =  55.00 ft.
 Each Surface Terminates Between   X =  70.00 ft.
                             and   X =  95.00 ft.
 Unless Further Limitations Were Imposed, The Minimum Elevation
 At Which A Surface Extends Is  Y = 42.00 ft.
 15.00 ft. Line Segments Define Each Trial Failure Surface.
 Following Are Displayed The Ten Most Critical Of The Trial
       Failure Surfaces Examined.  They Are Ordered - Most Critical
       First.
       * * Safety Factors Are Calculated By The Modified Bishop Method * *
       Failure Surface Specified By  5 Coordinate Points
         Point      X-Surf      Y-Surf
          No.        (ft)        (ft)
           1        41.00       42.50
           2        53.32       51.05
           3        64.17       61.42
           4        73.27       73.34
           5        79.21       84.30
       Circle Center At X =   -7.6 ; Y =  125.7  and Radius,   96.3
             ***     1.015   ***
       Failure Surface Specified By  5 Coordinate Points
         Point      X-Surf      Y-Surf
          No.        (ft)        (ft)
```

A 171 YY

```
    1          41.00        42.50
    2          53.52        50.76
    3          64.48        61.00
    4          73.57        72.93
    5          79.57        84.39
Circle Center At X =   -1.6 ; Y =  120.7  and Radius,   89.1
      ***      1.017   ***
Failure Surface Specified By  6 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1          41.00        42.50
    2          53.39        50.95
    3          64.59        60.93
    4          74.42        72.27
    5          82.70        84.77
    6          82.93        85.23
Circle Center At X =  -18.3 ; Y =  142.7  and Radius,  116.4
      ***      1.018   ***
Failure Surface Specified By  5 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1          41.00        42.50
    2          53.50        50.79
    3          64.11        61.39
    4          72.41        73.89
    5          76.24        83.30
Circle Center At X =    5.8 ; Y =  109.1  and Radius,   75.3
      ***      1.020   ***
Failure Surface Specified By  5 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1          41.00        42.50
    2          53.46        50.86
    3          63.94        61.59
    4          72.01        74.23
    5          75.29        82.92
Circle Center At X =    6.8 ; Y =  106.9  and Radius,   73.0
      ***      1.022   ***
Failure Surface Specified By  6 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1          41.00        42.50
    2          54.07        49.86
    3          65.73        59.30
    4          75.66        70.54
    5          83.57        83.28
    6          84.54        85.63
Circle Center At X =    3.6 ; Y =  124.1  and Radius,   89.8
      ***      1.033   ***
Failure Surface Specified By  6 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1          41.00        42.50
    2          53.69        50.49
    3          65.56        59.66
    4          76.51        69.92
    5          86.42        81.18
    6          90.78        87.19
Circle Center At X =  -36.3 ; Y =  179.3  and Radius,  157.1
      ***      1.051   ***
Failure Surface Specified By  6 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1          41.00        42.50
    2          54.68        48.65
    3          66.56        57.81
    4          75.98        69.48
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A-171 ZZ

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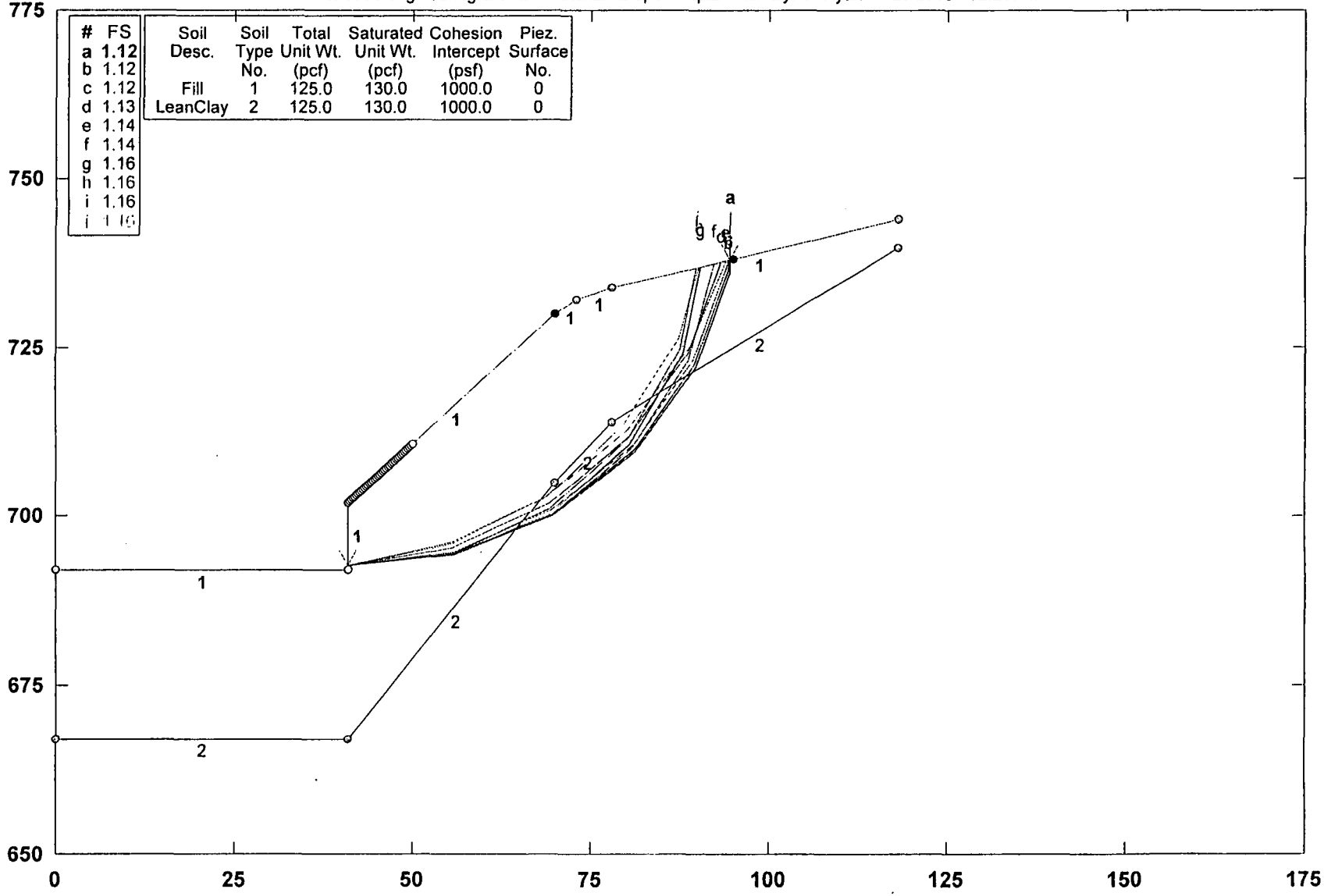
    5          82.43        83.03
    6          82.89        85.22
Circle Center At X =   21.8 ; Y =  103.6  and Radius,   64.1
      ***      1.070   ***
Failure Surface Specified By  6 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1         41.00        42.50
    2         54.06        49.87
    3         66.31        58.53
    4         77.63        68.38
    5         87.89        79.32
    6         94.63        88.16
Circle Center At X =  -25.2 ; Y =  175.1  and Radius,  148.2
      ***      1.077   ***
Failure Surface Specified By  6 Coordinate Points
  Point       X-Surf       Y-Surf
   No.         (ft)         (ft)
    1         41.00        42.50
    2         54.48        49.08
    3         66.86        57.54
    4         77.89        67.72
    5         87.31        79.38
    6         92.13        87.53
Circle Center At X =    2.7 ; Y =  138.1  and Radius,  103.0
      ***      1.079   ***
```

A 171 AAA

A 171 BBB

CH2M Hill 1 to 1 Slope

e:\2005 engineering\clients\c - d\ch2m\slope\1-1.pl2 Run By: C. Ryan 7/20/2005 02:20PM



#	FS
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b	1.12
c	1.12
d	1.13
e	1.14
f	1.14
g	1.16
h	1.16
i	1.16
j	1.16

Soil Desc.	Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Piez. Surface No.
Fill	1	125.0	130.0	1000.0	0
LeanClay	2	125.0	130.0	1000.0	0

STABL6H FSmin=1.12

Safety Factors Are Calculated By The Modified Bishop Method

BOWSER MORNER®

COMMITTED TO EXCELLENCE SINCE 1911

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** STABL6H **
by
Purdue University
--Slope Stability Analysis--
Simplified Janbu, Simplified Bishop
or Spencer`s Method of Slices

Run Date: 7/20/2005
Time of Run: 02:20PM
Run By: C. Ryan
Input Data Filename: e:1-1.in
Output Filename: e:1-1.OUT
Plotted Output Filename: e:1-1.PLT
PROBLEM DESCRIPTION CH2M Hill
1 to 1 Slope

BOUNDARY COORDINATES
Note: User origin value specified.
Add 0.00 to X-values and 650.00 to Y-values listed.

6 Top Boundaries
10 Total Boundaries

Boundary No.	X-Left (ft)	Y-Left (ft)	X-Right (ft)	Y-Right (ft)	Soil Type Below Bnd
1	.00	42.00	41.00	42.00	1
2	41.00	42.00	41.01	52.00	1
3	41.01	52.00	70.00	80.00	1
4	70.00	80.00	73.00	82.00	1
5	73.00	82.00	78.00	84.00	1
6	78.00	84.00	118.00	94.00	1
7	.00	17.00	41.00	17.00	2
8	41.00	17.00	70.00	55.00	2
9	70.00	55.00	78.00	64.00	2
10	78.00	64.00	118.00	90.00	2

ISOTROPIC SOIL PARAMETERS
2 Type(s) of Soil

Soil Type No.	Total Unit Wt. (pcf)	Saturated Unit Wt. (pcf)	Cohesion Intercept (psf)	Friction Angle (deg)	Pore Pressure Param.	Pressure Constant (psf)	Piez. Surface No.
1	125.0	130.0	1000.0	.0	.00	.0	0
2	125.0	130.0	1000.0	.0	.00	.0	0

A Critical Failure Surface Searching Method, Using A Random
Technique For Generating Circular Surfaces, Has Been Specified.
1600 Trial Surfaces Have Been Generated.
40 Surfaces Initiate From Each Of 40 Points Equally Spaced
Along The Ground Surface Between X = 41.00 ft.
and X = 50.00 ft.
Each Surface Terminates Between X = 70.00 ft.
and X = 95.00 ft.
Unless Further Limitations Were Imposed, The Minimum Elevation
At Which A Surface Extends Is Y = 42.00 ft.
15.00 ft. Line Segments Define Each Trial Failure Surface.
Following Are Displayed The Ten Most Critical Of The Trial
Failure Surfaces Examined. They Are Ordered - Most Critical
First.
* * Safety Factors Are Calculated By The Modified Bishop Method * *
Failure Surface Specified By 7 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.90	44.27
3	69.70	50.15
4	81.30	59.66
5	89.77	72.04
6	94.43	86.29
7	94.49	88.12

Circle Center At X = 42.3 ; Y = 95.5 and Radius, 53.0
*** 1.118 ***
Failure Surface Specified By 7 Coordinate Points

A/71 DDD

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.88	44.39
3	69.65	50.35
4	81.20	59.91
5	89.63	72.32
6	94.27	86.58
7	94.32	88.08

Circle Center At X = 41.8 ; Y = 95.7 and Radius, 53.3
*** 1.120 ***

Failure Surface Specified By 7 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.83	44.73
3	69.50	50.90
4	80.99	60.55
5	89.43	72.95
6	94.19	87.18
7	94.23	88.06

Circle Center At X = 40.3 ; Y = 97.3 and Radius, 54.8
*** 1.122 ***

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.73	45.34
3	69.20	51.93
4	80.48	61.81
5	88.78	74.31
6	93.29	87.82

Circle Center At X = 37.7 ; Y = 99.2 and Radius, 56.8
*** 1.134 ***

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.58	46.02
3	68.90	52.92
4	80.20	62.78
5	88.82	75.06
6	93.86	87.97

Circle Center At X = 33.7 ; Y = 104.6 and Radius, 62.5
*** 1.138 ***

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.90	44.21
3	69.61	50.31
4	80.87	60.22
5	88.64	73.05
6	92.21	87.55

Circle Center At X = 42.9 ; Y = 92.0 and Radius, 49.6
*** 1.142 ***

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.90	44.20
3	69.54	50.46
4	80.54	60.66
5	87.82	73.77
6	90.38	87.09

Circle Center At X = 43.1 ; Y = 90.0 and Radius, 47.5
*** 1.159 ***

A 171 EEE

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.62	45.86
3	68.81	53.01
4	79.60	63.42
5	87.22	76.34
6	90.09	87.02

Circle Center At X = 36.0 ; Y = 97.9 and Radius, 55.6

*** 1.163 ***

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.86	44.55
3	69.37	51.06
4	80.24	61.41
5	87.40	74.58
6	89.73	86.93

Circle Center At X = 41.9 ; Y = 90.8 and Radius, 48.3

*** 1.163 ***

Failure Surface Specified By 6 Coordinate Points

Point No.	X-Surf (ft)	Y-Surf (ft)
1	41.00	42.50
2	55.91	44.18
3	69.52	50.46
4	80.47	60.72
5	87.63	73.91
6	89.96	86.99

Circle Center At X = 43.3 ; Y = 89.5 and Radius, 47.0

*** 1.164 ***

A171 FFF

A171GGG

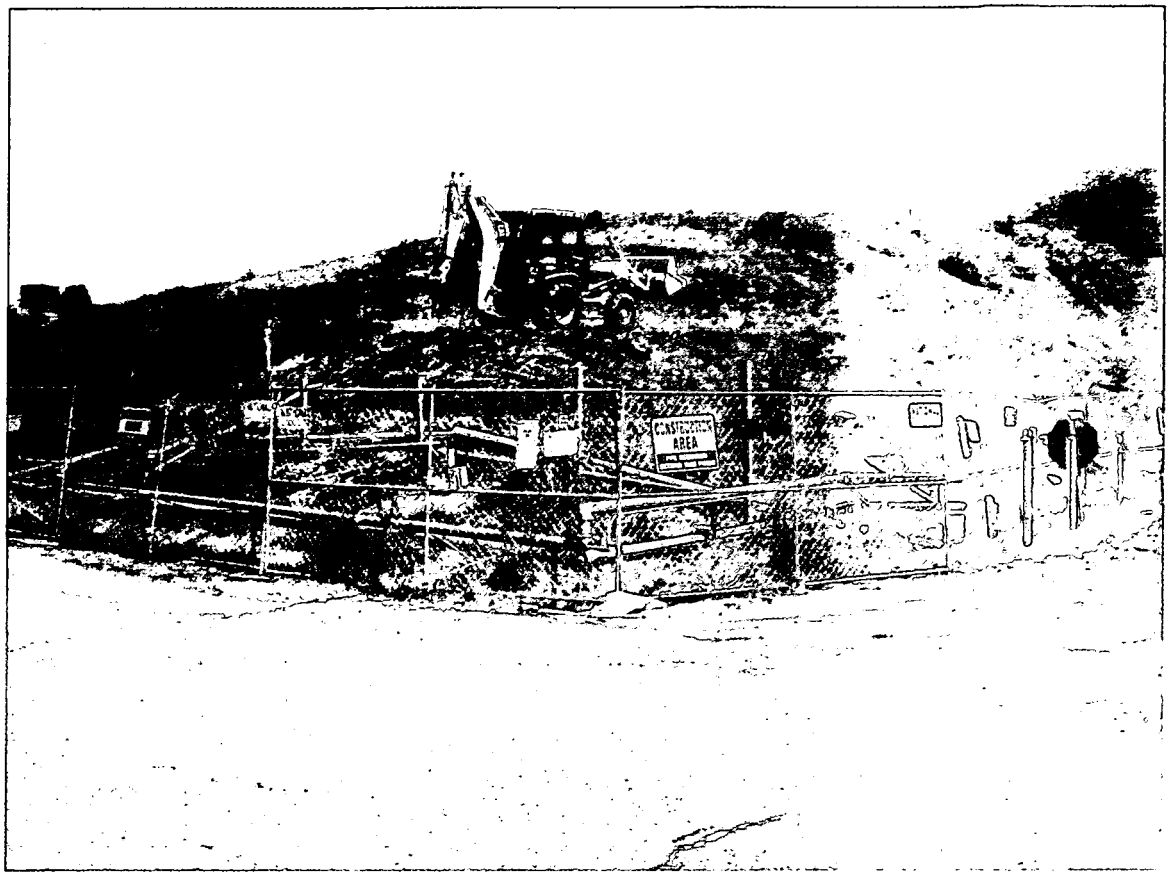
ATTACHMENT B

GENERAL MEDIA INFORMATION

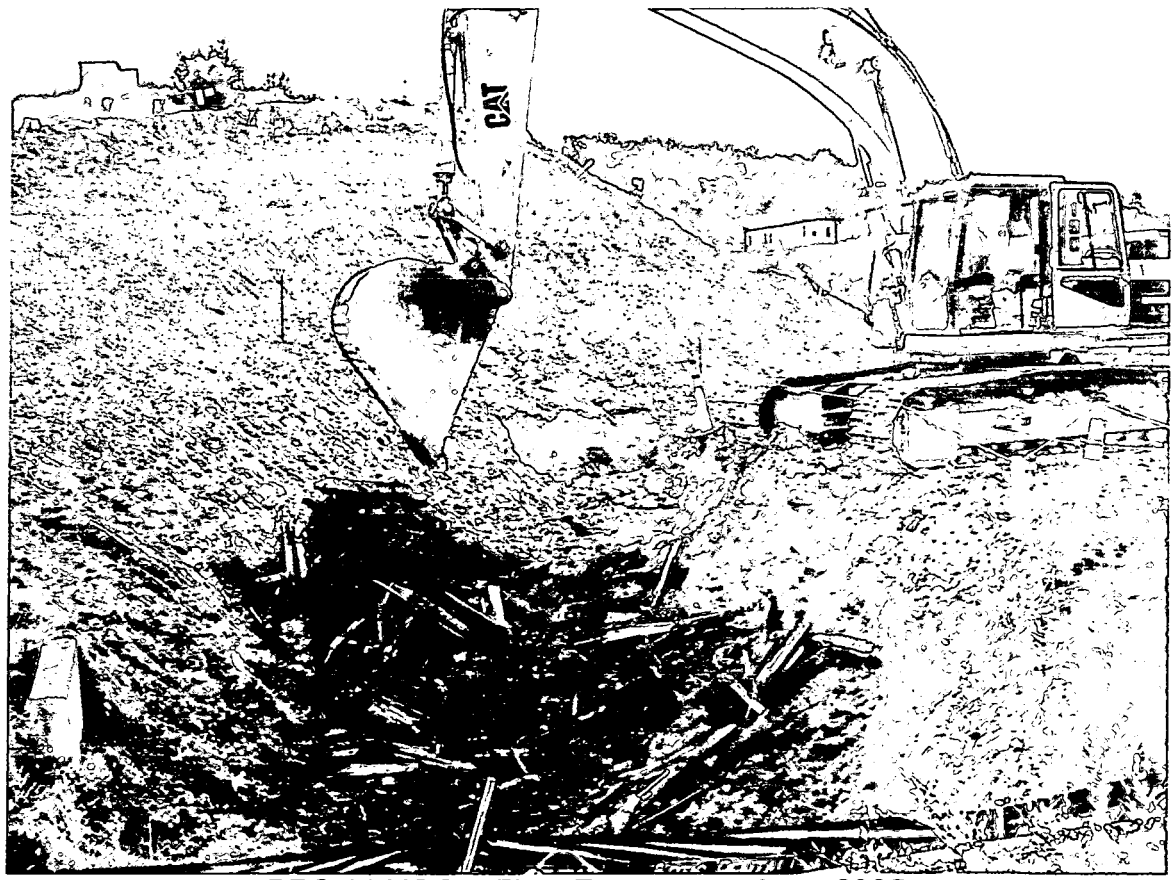
[there was no general media information released to the public]

ATTACHMENT C

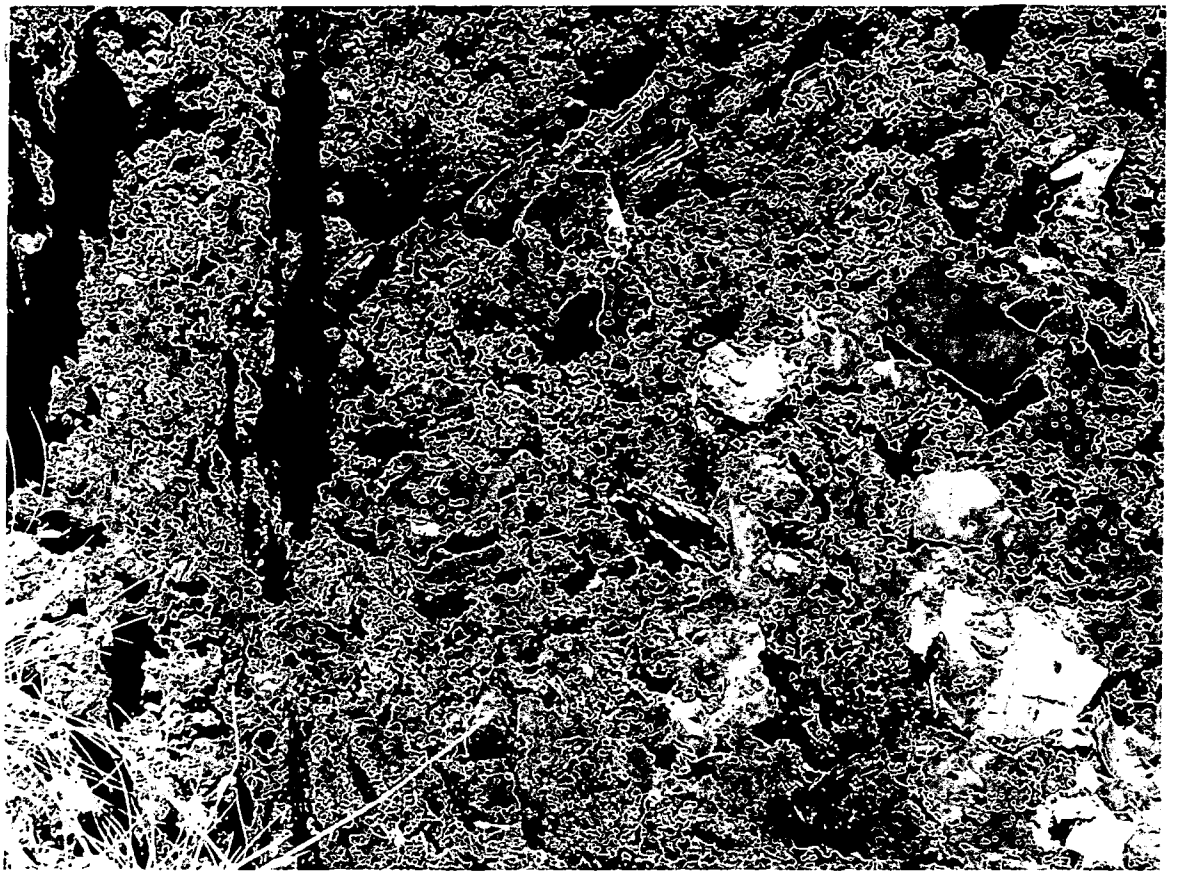
PHOTO DOCUMENTATION



PRS 11 April 12, 2005

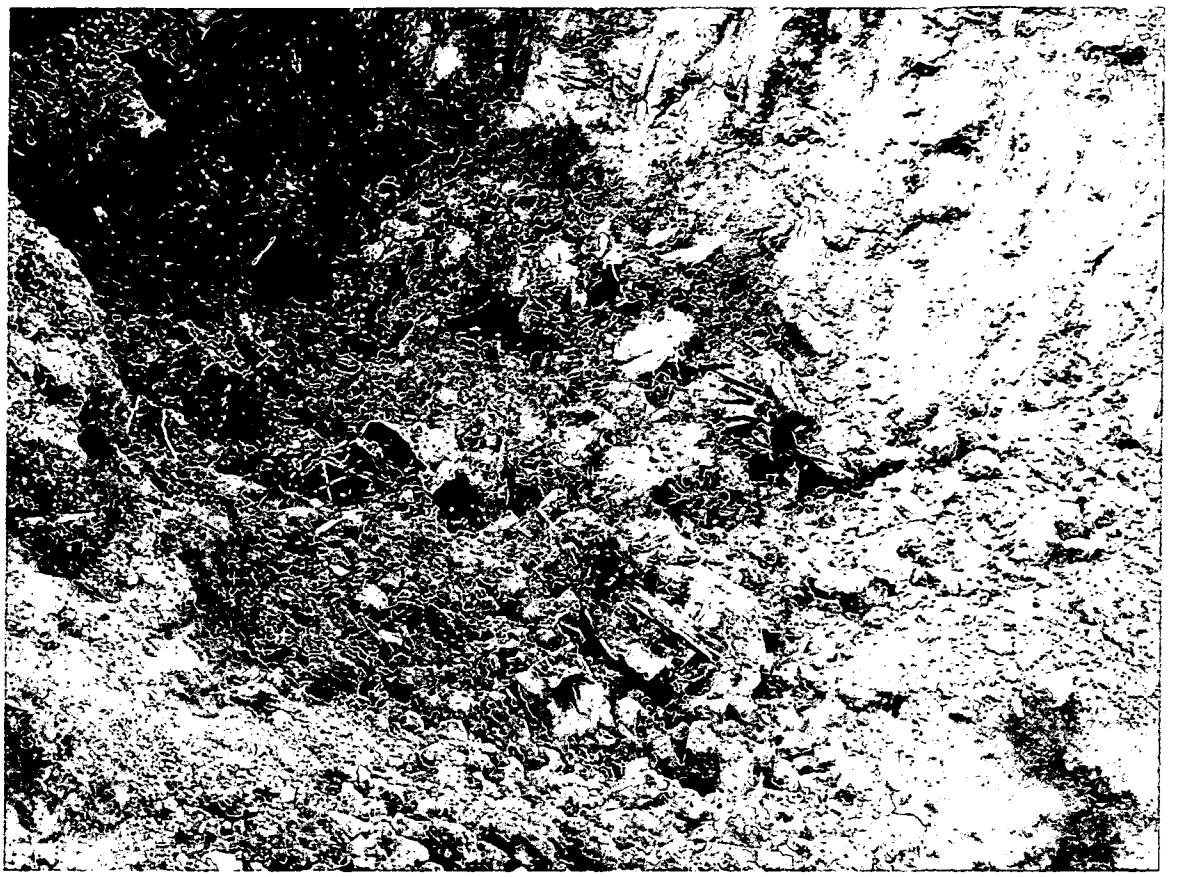


PRS 11 VOCs, First Encounter, June 2005



PRS 11, Trash in Eastern Extent, June 2005

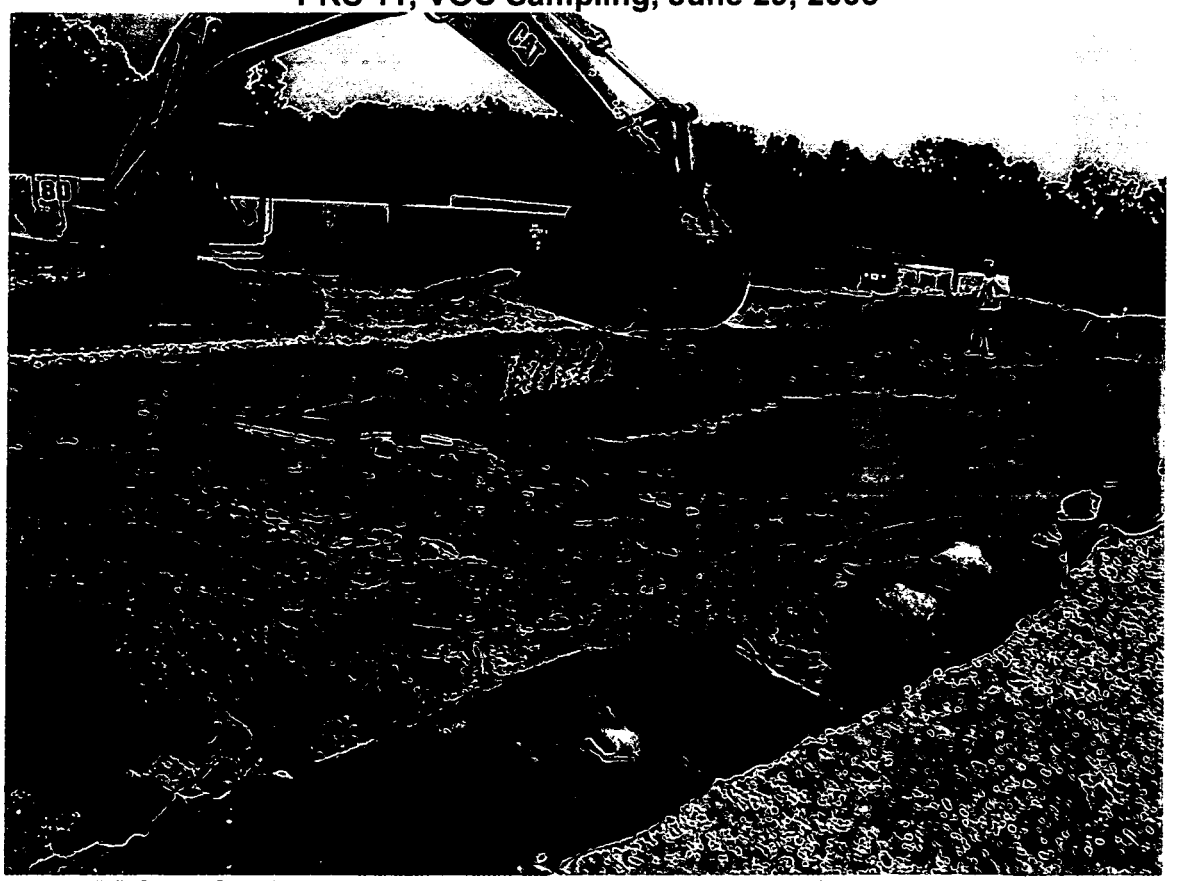
PRS 11 Eastern Portion, Trash & Debris, June 2005



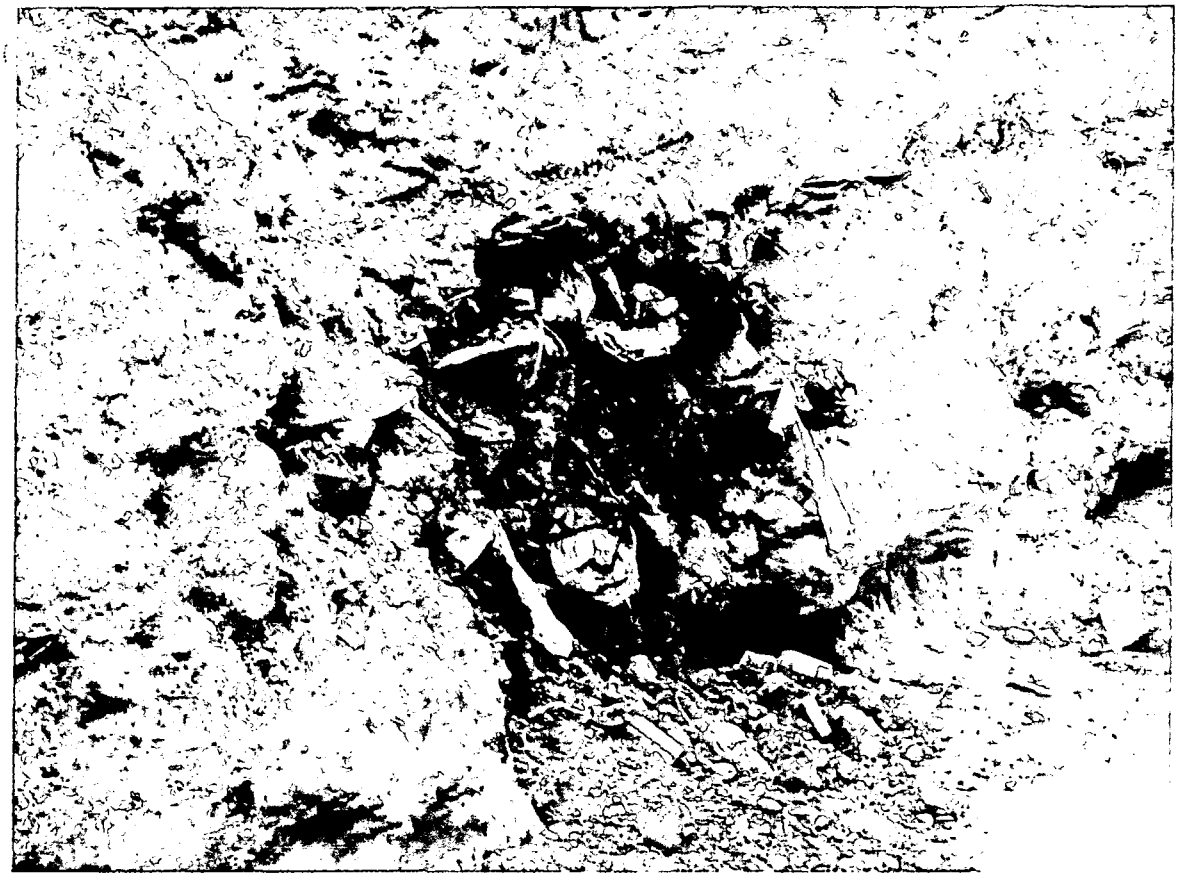
PRS 11, Debris – Starting Drums, June 15, 2005

PRS 11, SU3 Sampling, June 2005

PRS 11, VOC Sampling, June 29, 2005



PRS 11 Spoils Area, Constructing Soil Staging Cell, August 2005



PRS 11, Debris, August 2005

PRS 11 Spoils Area, Soil Staging Area, August 2005

PRS 11, Debris, August 2005

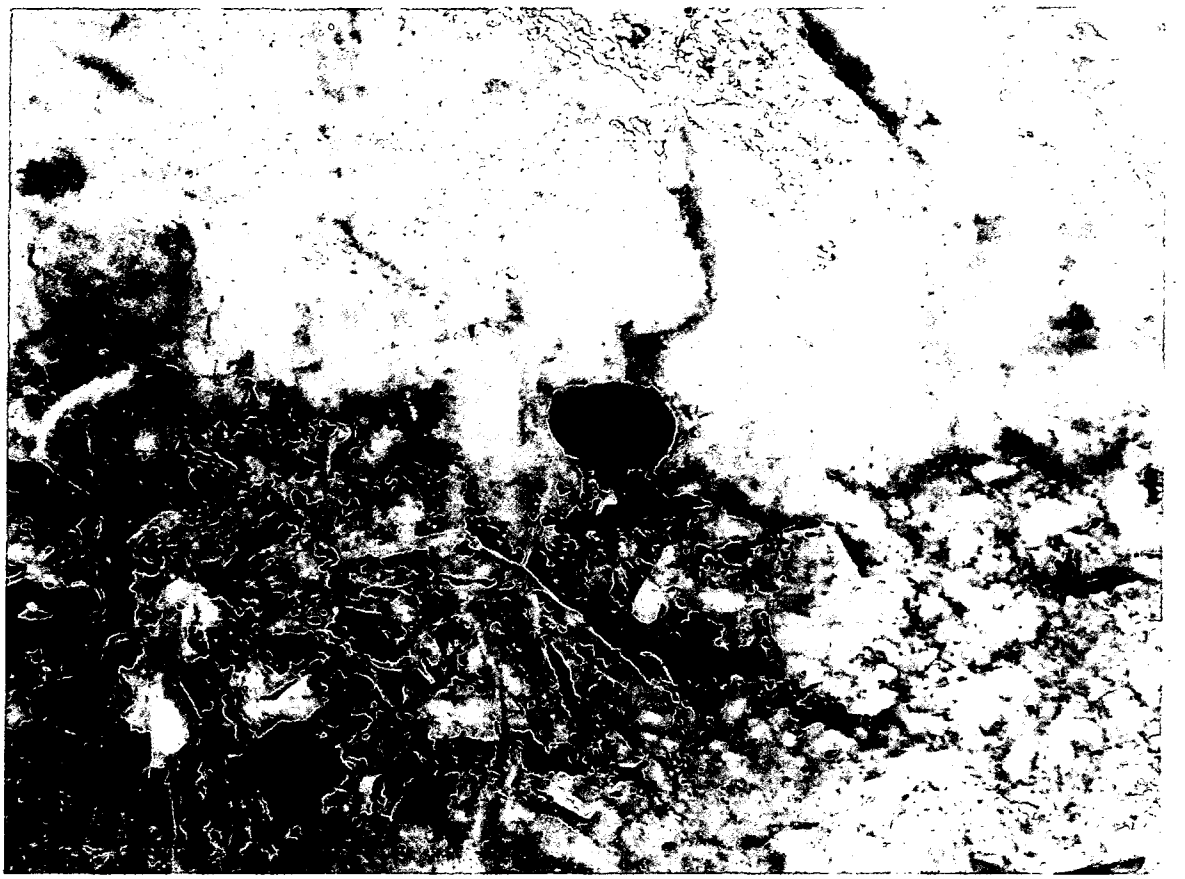
PRS 11, Debris (Vessel), August 2005

PRS 11, Debris, August 2005

PRS 11, Mercury Area, August 24, 2005

PRS 11, Mercury, August 25, 2005

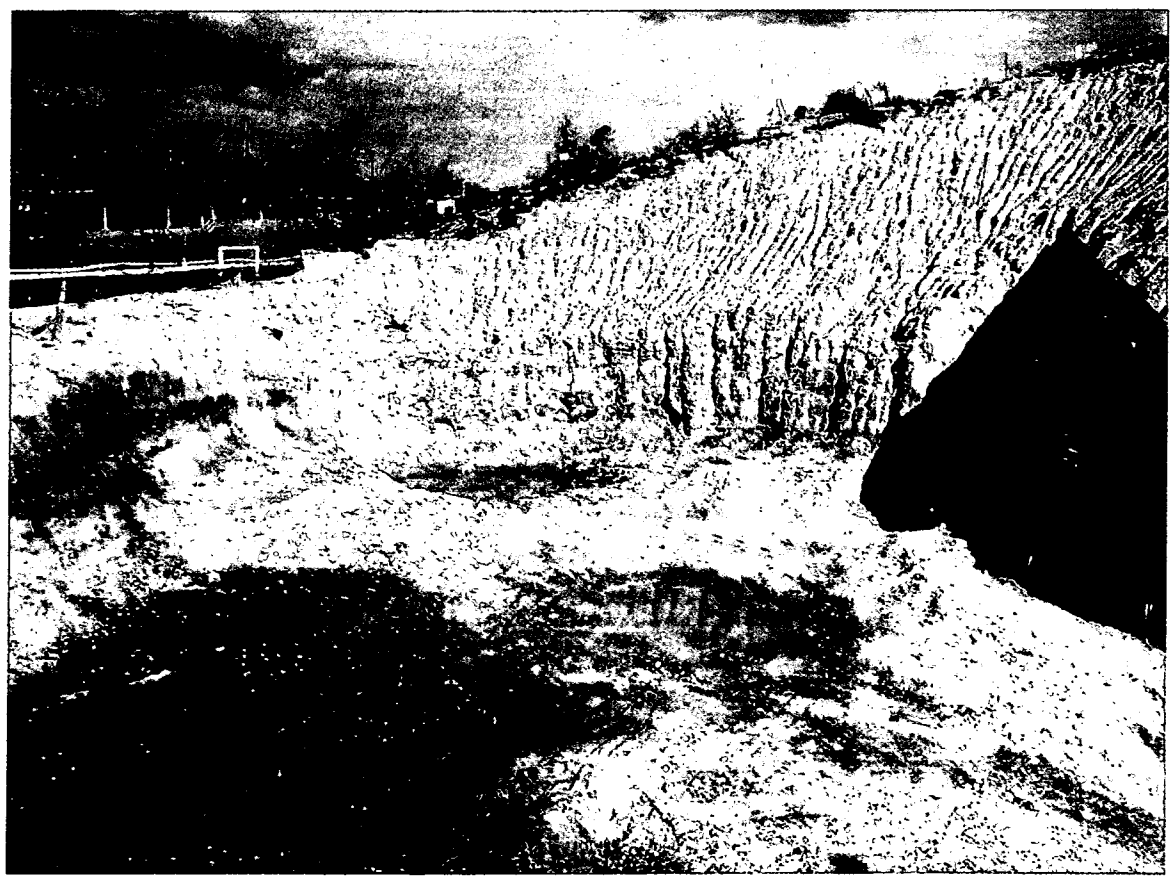
PRS 11, Protection of Mercury Area, August 2005



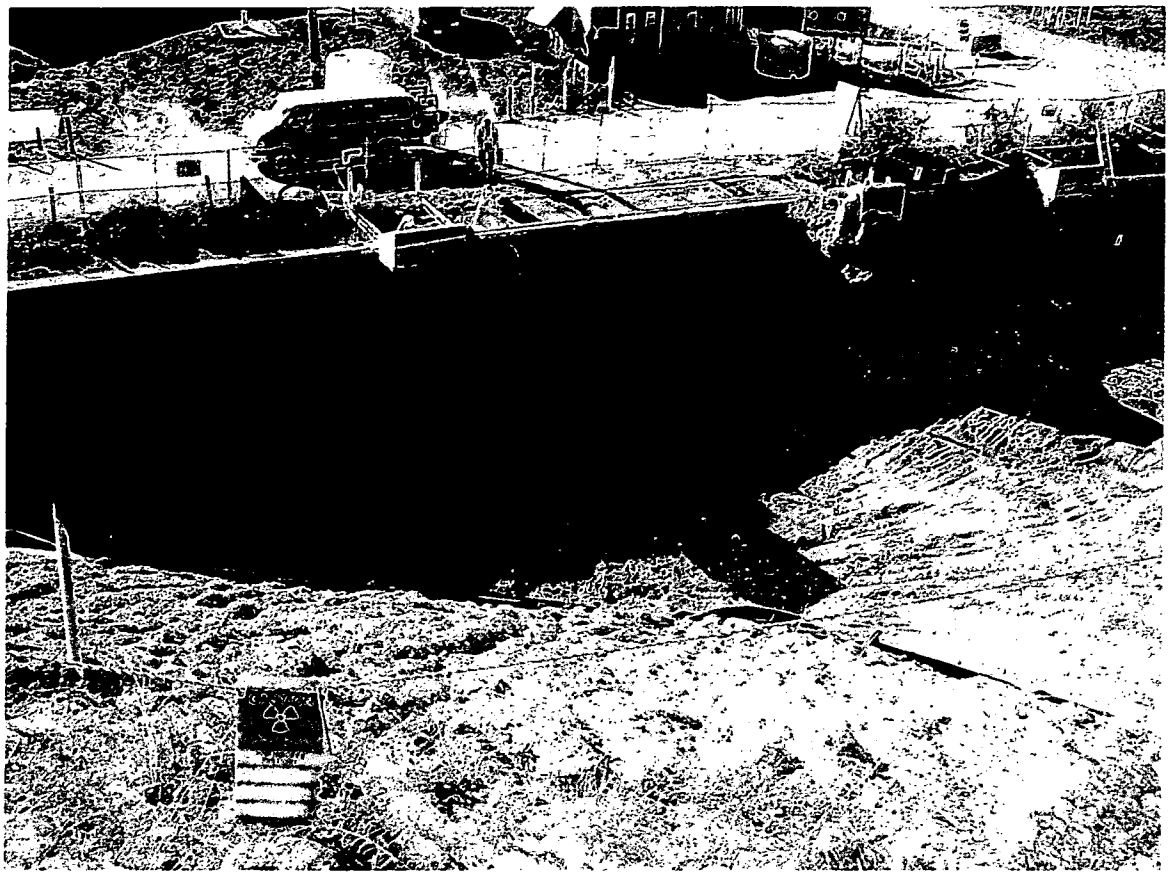
PRS 11, Wall Adjacent to Landfill Debris, September 2005

PRS 11, Debris Removal, September 2005

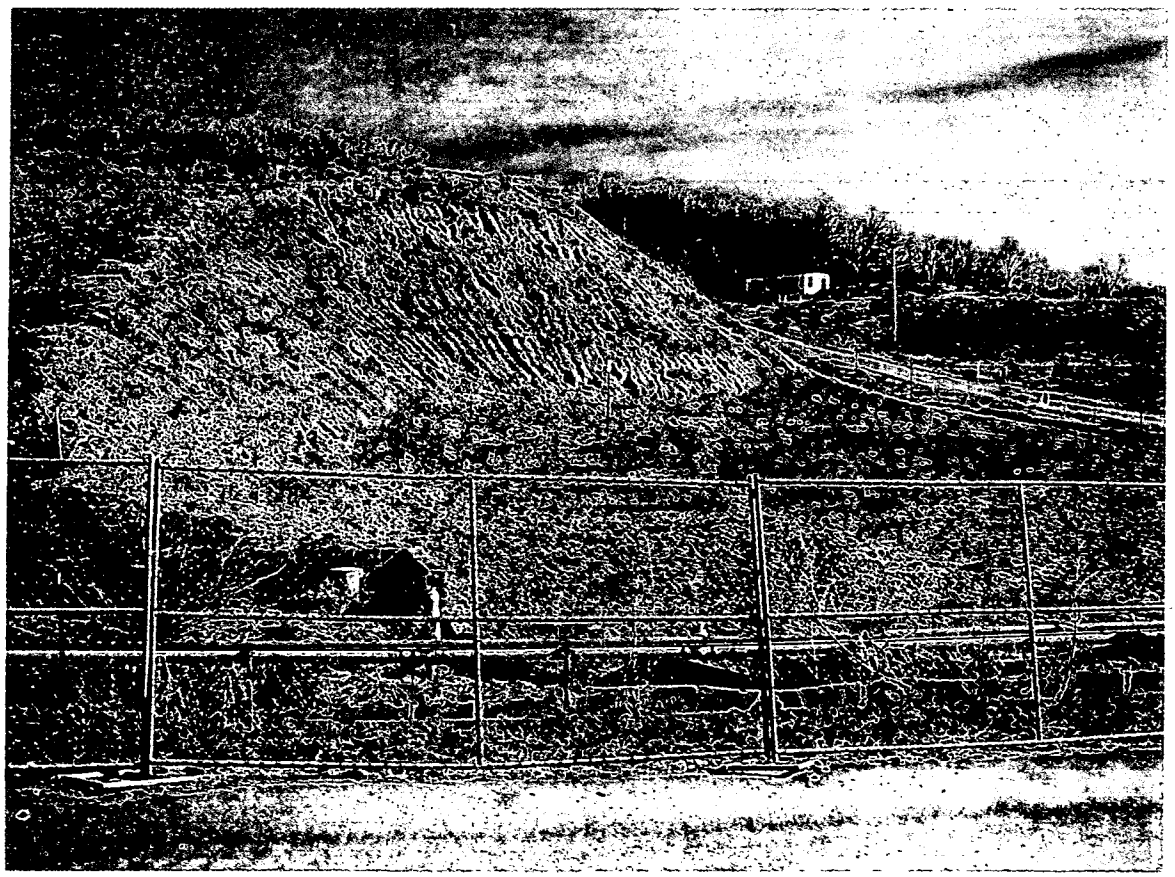
PRS 11, Debris in Wall Adjacent to Landfill, September 2005



PRS 11 October 31, 2005



PRS 11 October 31, 2005



PRS 11 February 1, 2006

ATTACHMENT D

PUBLIC FACT SHEET

PUBLIC FACT SHEET

PRS 11: Thorium and Polonium – Contaminated Waste Area

This Fact Sheet satisfies the Public Notification requirement set forth in the Contingent Removal Action Memorandum[1]. This Fact Sheet replaces the version[4] released in December 2003 and allows a partial removal.

Background. Potential Release Site (PRS) 11, also known as Area 2 and the Crushed Drum Area, is located in the southwest portion of the site (within the boundary of CERCLA Operable Unit 1) as shown on Figure 1. Approximately 2,500 empty drums were crushed in place and covered with soil. These drums had previously contained thorium process materials used for thorium projects in the 1960s. This location also contains buried wood ash and debris from a fire that had consumed the polonium-contaminated flooring from the Dayton units (Area 13). Since Polonium-210 has a half-life of 138 days, it is no longer detectable. However, Lead-210 (half-life of 22 years) and Bismuth-210m (half-life of $3.04 \times 10^{+6}$ years) may be present due to processes that produced Polonium-210. Therefore, Lead-210 and Bismuth-210m are listed in the table below.

Characterization. Thorium-232 was found during installation of drainage features and wells in support of the Operable Unit 1 Record of Decision remedy and subsequent augmentations. The maximum concentration found is included in the following table (unit = pCi/g).

Analyte	Bkgd**	Maximum Concentration	Cleanup Objective*
Lead-210 + D	1.2	see note	7.4
Bismuth-210m	ND	see note	8.3
Thorium-232	1.4	561.7	2.1

note: Pb-210 and Bi-210m, as a COCs, are only associated with Dayton debris, if found. No samples above C.O. have been reported.
ND = Not Detectable * risk criteria **background soil concentration

Based on the above, the Department of Energy (and the Core Team, see Recommendation Page on page 2) determined that a **Removal Action (RA)** was appropriate per the Contingent Removal Action Memo[1]. The RA Contaminants of Concern (COC) are listed in the table above.

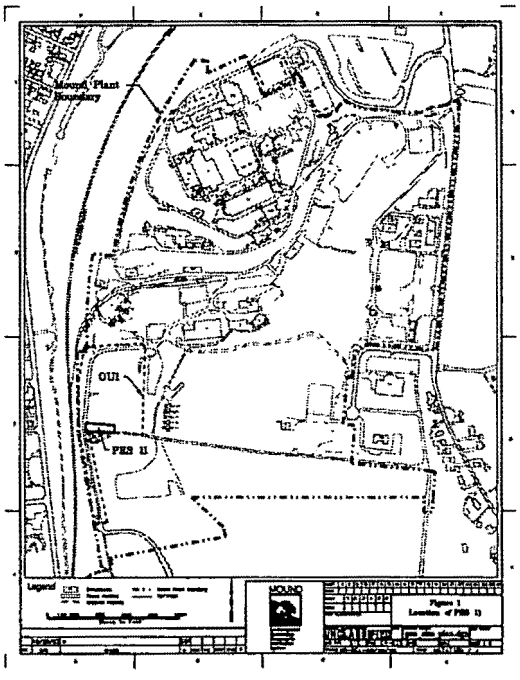
The **Work Plan** for Contingent Removal Actions[2], supplemented by the Unique Work Package as reviewed by the Core Team[1,2], includes procedures, instructions, and applicable permits and notifications required to safely conduct the work. Erosion and runon/runoff controls will be managed per the SWPPP[3].

The RA will consist of excavation of the crushed drums (and other debris associated with the Dayton Units if discovered), as indicated by sample results above the cleanup objectives (see table) and shipping of debris to an approved disposal facility. Concurrently a professional engineering evaluation will be conducted on the available alternatives to maximize the removal of known radiological contamination while ensuring worker safety and the integrity of the landfill. The soil excavation will continue to the extent possible without endangering the integrity of the adjacent landfill. Post-excavation sampling will be performed within the area per a Core Team approved **Standard Verification Sampling & Analysis Plan (VSAP)**.

Schedule. This Fact Sheet will be in public review for 30 days, ending March 22, 2005. The RA is planned to commence at the beginning of March 2005. A summary of the RA and 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 of approximately 13,000 yd^3 (9,939 m^3) of material (banked and based upon a 1.5:1 slopeback, including overburden), disposal, and verification are expected to cost less than $4,115,000.

Additional information can be found in the public reading room, or by contacting Sue Smiley at 847-8350 ext. 318.



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 11 Fact Sheet, December 2003, Public Review Draft

Recommendation for PRS 11

Potential Release Site (PRS) 11, also known as Area 2 and the Crushed Drum Area, is located in the southwest portion of the site (within the boundary of CERCLA Operable Unit 1), see Figure 1 on Fact Sheet. Approximately 2,500 empty drums were crushed in place and covered with soil. These drums had previously contained thorium process materials used for thorium projects in the 1960s. This location also contains buried wood ash and debris from a fire that had consumed the polonium-contaminated flooring from the Dayton units (Area 13).

Thorium-232 was found during installation of drainage features and wells in support of the Operable Unit 1 Record of Decision remedy and subsequent augmentations. The maximum concentration of Th-232 found was 561.7 pCi/g, compared to the cleanup objective of 2.1 pCi/g. Based on the above information, the Department of Energy determined that a **Removal Action (RA)** was warranted and the Core Team agreed to apply the Contingent Removal Action Memorandum. The RA Contaminant of Concern is thorium-232.

The Core Team originally recommended No Further Assessment for PRS 11 based upon data available at that time. However, based upon the above information the Core Team recommends a **Removal Action** for PRS 11.

This Removal Action will be performed under the Action Memorandum for Contengengent Removal Actions. Successful completion of the Removal Action will be documented via an On-Scene Coordinator (OSC) Report signed by the Core Team, which will be placed in the Public Reading Room.

A Public Fact Sheet along with this recommendation, signed by the Core Team, will be placed in the Public Reading Room for a 30-day review period. Upon closure of the public review comments, if any, the Fact Sheet will be issued as a final document and made available in the Public Reading Room.

CONCURRENCE:

DOE/MCP: Paul Lucas 11/26/03
Paul Lucas, Remedial Project Manager (date)

USEPA: David P. Seely 11/19/03
David P. Seely, Remedial Project Manager (date)

OEPA: Brian K. Nickel 11/25/03
Brian K. Nickel, Project Manager (date)

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 11 Fact Sheet, December 2003, Public Review Draft