30 06 0406018009

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

CH2MHILL

ER-095/03
August 28, 2003

Mr. Richard B. Provencher, Director
Miamisburg Closure Project
U. S. Department of Energy
500 Capstone Circle
Miamisburg, OH 45342

SUBJECT: Contract No. DE-AC24-03OH20152
Contract Deliverable 039 – PRS Documents
PRS 266/412 OSC REPORT, FINAL

Dear Mr. Provencher:

Paul Lucas from your office has approved the release of the following document for public review:

- PRS 266/412 OSC Report, Final

Regulator comments have been incorporated into the document. If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact Dave Rakel at extension 4203.

Sincerely,

Monte A. Williams
Deputy Project Manager, Environmental Restoration

MAW/KMA:jdg

Enclosures

cc: David Seely, USEPA, (1) w/attachments
Mary C. Wojciechowski, Tetra Tech EM, Inc., (1) w/attachments
Brian Nickel, OEPA, (1) w/attachments
Ruth Vandegrift, ODH, (1) w/attachments
Paul Lucas, DOE/MCP, (1) w/attachments
Danny Punch, DOE/MCP, (1) w/attachments
Lisa Rawls, DOE/MCP, w/o attachments
Terry Tracy, DOE/HQ, (1) w/attachments
Randy Tormey, DOE/OH, (1) w/attachments
J. D. Bonfiglio, MESH, (1) w/attachments
Monte Williams, CH2M HILL, (2) w/attachments
John Fulton, CH2M HILL, w/o attachments
Gene Valett, CH2M HILL, w/o attachments
Dave Rakel, CH2M HILL, w/o attachments
Public Reading Room, (4) w/attachments
Admin Records, (2) w/attachments
DCC, (1) w/attachments

PRS 266/412
REMOVAL ACTION

OSC REPORT

August 2003

Final

Department of Energy
Miamisburg Closure Project

CH2MHILL

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Acronyms

CO	cleanup objective
COC	contaminant of concern
DOE	Department of Energy
MCP	Miamisburg Closure Project
FA	No Further Assessment
OEPA	Ohio Environmental Protection Agency
OSC	On-Scene Coordinator
PRS	Potential Release Site
RA	Removal Action
RBGV	Risk-Based Guideline Value
SVOC	semivolatile organic compound
UCL	upper confidence limit
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

RECOMMENDATION

The Potential Release Sites (PRSs) 266 and 412 Removal Actions (RAs) were successfully completed at soil locations on the northeast portion of the site. These RAs resulted in the excavation and disposal of approximately 486,000 cubic feet (18,000 cubic yards) of material. All material was shipped via railcar to Envirocare disposal facility. The contaminant of concern (COC) for PRS 412 was thorium-232 with a cleanup objective (CO) (10^{-5} Risk-Based Guideline Value (RBGV) plus background) of 2.1 pCi/g. All results for PRS 412 were below their respective COs. The COs for the RA COCs for PRS 266, thorium-228, thorium-230, thorium-232, plutonium-238, and radium-226, are 2.6 pCi/g, 2.8 pCi/g, 2.1 pCi/g, 55 pCi/g, and 2.9 pCi/g respectively.

For PRS 266 all results were below COs except for one verification sample (V62) having thorium-228 and thorium-232 concentrations slightly greater than COs but less than the hot spot criteria (respectively 4.8 pCi/g, and 3.5 pCi/g). 95% upper confidence limit (UCL) and Sign Test calculations were performed that indicated that PRS 266 met the cleanup criteria. During excavation of PRS 266, an isolated area of volatile organic compounds (VOCs) contamination was identified & excavated. Results of sampling and analysis after excavation indicated no remaining VOCs above the more restrictive of the 10^{-6} RBGV or Hazard Index equal to one value. Potential for leaching to groundwater was considered but calculations were not performed because the VOC data set yielded only one detected, unqualified result which does not indicate a VOC concern. Sampling and analytical results adequately demonstrate that PRSs 266 and 412 RAs are complete and the PRSs require no further action.

Note: Two locations near PRS 266 (historic location SCR626 and SCR660) have historic elevated results of thorium-232 and plutonium-238 above cleanup objectives. Excavation of SCR660 was attempted during the PRS 266 RA but ceased when a corrugated metal pipe was found with thorium-232 in excess of cleanup objective in the sediment. Neither of the two locations is within a PRS nor identified as a PRS, but will be addressed as part of the PRS 267 RA.

Paul Lucas 8/22/03

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

David P. Seely 8/22/03

David P. Seely, RPM
USEPA
Chicago, Illinois

8/22/03

Brian Nickel
OEPA
Dayton, Ohio

1.0 SUMMARY OF EVENTS

This section describes the site background and events leading up to the RAs, parties involved in responding to the RAs, CO determination, chronological narrative of the RAs, and resources committed to complete the projects.

1.1 Site Conditions and Background

PRSs 266 and 412 are located on the east side of the site (Figure 1). PRS 266 is the site of historic disposal of soil from thorium redrumming operations performed directly east of PRS 266 at PRS 267. PRS 412 was based on historic thorium 232 data exceeding the CO.

For PRS 266 radiological data from the site survey in 1983 indicated thorium-232 contamination at a maximum value of 254.3pCi/g in a subsurface sample at a depth of 80 inches. PRS 395, which is in the western edge of PRS 266, indicated elevated levels of "Total Halogenated Hydrocarbons." December 18, 1996 the Core Team approved a Response Action recommendation for PRS 266 based on the historical survey data (on the same date PRS 395 was binned No Further Assessment (NFA)). Thorium-232 and plutonium-238 are the primary COCs for PRS 266 and a secondary identified COC is radium-226.

For PRS 412, historic sample thorium-232 results up to 42 pCi/g prompted the RA status and thorium 232 was identified as the only COC. In addition to the excavation verification samples, the Ohio Environmental Protection Agency (OEPA) prompted collection of 4 confirmation surface soil samples in the drainage ditch that crosses through PRS 412.

1.2 Organization of the Removal Actions

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

1.3 Objectives

Documentation Objective. The objectives of this On-Scene Coordinator (OSC) Report are to describe the RA fieldwork and document successful completion of the projects. Material quantities and disposition locations are presented in Table 2. The cost breakdown of the removal actions is presented in Table 3.

Cleanup Objective. The COs for PRS 266 COCs are: thorium-232 (plus daughter isotopes) at 2.1 pCi/g, plutonium-238 at 55 pCi/g, and radium-226 (plus daughter isotopes) at 2.9 pCi/g. The CO is the sum of the 10^{-5} RBGV and background. All verification sample results were below the cleanup objectives, except for one sample location (V62) having thorium-228 (not a COC) and thorium-232 results slightly in excess of cleanup objectives. Verification sample results for radioisotopes are presented in Table 4. 95% UCL and Sign Test calculations were performed that indicated that PRS 266, as a whole, is below contaminant cleanup objective concentrations. While there are no established COs for VOCs, all VOC results from the 10 identified sample locations in PRS 266 were below the more restrictive of the 10^{-6} RBGV or the Hazard Index equal to one value.

The COC for PRS 412 is thorium-232. All verification and drainage ditch confirmation results were below the CO (Table 6).

Hot Spot Criteria. The Hot Spot criteria for thorium-232, plutonium-238, and radium-226 are 3.5 pCi/g, 165.13 pCi/g, and 4.7 pCi/g (3 times the 10^{-5} RBGV + background) respectively. There were no sample results in either PRS that exceeded the hot spot criteria for any analytes.

1.4 Chronological Narrative of the Removal Actions

The following are chronological narratives of events surrounding the PRS 266 and PRS 412 RAs.

PRS 266 Chronology

1965	Thorium contaminated soils excavated from PRS 267 (formerly known as Area 9), a historic thorium redrumming area located immediately southeast of PRS 266, were deposited in PRS 266 (formerly known as Area 8).
1966	Thorium contaminated soils excavated from Area 1 (a historic thorium redrumming area near the center of the site) were deposited in PRS 266
1984	Concrete pad installed and some of the thorium contaminated soil was excavated. Soil containing > 15 pCi/g was boxed for offsite disposal and the remaining excavated soil was moved to the eastern part of Area 12 (an area south of PRS 266 and west of Building 38 that later became designated as PRS 277/278).
1992	OU 9 Site Scoping Report, Vol. 3 – Rad Site Survey (Dec. 1992) completed. It reports in-situ gamma analyses with the highest thorium result being 254.3 pCi/g (core location 0045) and the highest plutonium-238 result being 24.4 pCi/g (surface location 0333).
Dec 1996	Core Team binned PRS 266 Response Action based on historic data.
April 8, 2002	PRS 266 RA Work Plan approved by the Department of Energy (DOE) and submitted to OEPA and the United States Environmental Protection Agency (USEPA).
April – August 2002	Removal Action initiated April 15, 2002. Excavation and preverification conducted in phases. Soil removed to lower depths where preverification results indicated the presence of thorium-232 above cleanup objectives. Excavation footprint expanded laterally to include adjacent areas having elevated FIDLER indications and nearby areas with elevated historic results.

August 12-15, 2002	Verification sampling conducted. Verification samples were analyzed offsite for radiological COCs as well as for volatile organic compounds (VOCs) in a limited area of PRS 266, also based on the historical indications.
Sept – Oct 2002	Site restoration completed. Area backfilled with topsoil, graded to conform to adjacent areas, and seeded with grass.
April 2003	PRS 266/412 Verification Data Report issued.

PRS 412 Chronology

1983	PRS 412 identified as result of the Radiological Site Survey detecting thorium hot spot
1994	Operable Unit 5, Operational Phase I Investigation, analyzes site for VOCs and semi-volatile organic compounds (SVOCs) by a qualitative PETREX soil gas survey. Also analyzes surface soil for rad contamination by FIDLER. The investigation resulted in identification of no new contaminants above screening levels in PRS 412.
1996	Quantitative Soil Gas Confirmation Sampling investigation completed on 1994 soil gas locations with highest qualitative results. This investigation made no conclusion regarding individual SVOC and VOC contaminants in PRS 412.
March 1998	PRS 412 binned Response Action based on historical detection (hot spot C0033 at 3 ft depth) of thorium at 42 pCi/g.
April-Aug 2002	Removal action carried out concurrently with adjacent PRS 266.
April 2003	PRS 266/412 Verification Data Report issued.

2.0 EFFECTIVENESS OF THE REMOVAL ACTIONS

Verification sample results for PRS 266 are presented in Table 4 for radiological COCs and in Table 5 for VOCs. All samples except one are below the radiological cleanup objectives (sample V62 slightly exceeds cleanup objectives for thorium-228 and thorium-232). There were no samples that exceeded applicable screening levels (the more stringent of 10^{-6} RBGV or Hazard Index equal to one value) for VOCs. 95% UCL and Sign Test calculations were performed that indicated that PRS 266 met the cleanup criteria. For PRS 412, verification and confirmation results are presented in Table 6. All PRS 412 results were

below COs. Required validation for both PRSs was performed on sample results from offsite laboratories.

2.1 Actions Taken by Mound Personnel

Mound Environmental Restoration Project and onsite personnel planned, performed oversight, and performed the excavation, monitoring, sampling and analyses, documentation, and transportation of contaminated soil and debris to the designated onsite soil staging area. Photographic documentation is presented in Appendix E to this OSC Report.

2.2 Actions Taken by Local, State, and Federal Agencies

The Department of Energy/Miamisburg Closure Project (DOE/MCP), USEPA, and OEPA had oversight responsibility for the removal actions.

2.3 Actions Taken by Subcontractors

Subcontractors involved in the projects included the following:

- Weston Solutions, Inc. performed sample technician, laboratory liaison, and data validation support.
- Envirocare (disposal facility) received waste via rail transport.
- Lionville Laboratory, Inc. performed VOC analyses.
- Severn Trent Laboratory, Inc. performed offsite rad analyses.

3.0 DIFFICULTIES ENCOUNTERED

3.1 Items that Affect the Removal Actions

No difficulties were encountered during the removals.

3.2 Issues of Intergovernmental Coordination

All DOE/OEPA/USEPA interactions were good. The agencies were updated at Core Team meetings and the Mound 2000 Process worked well. Splitting of samples with OEPA went well.

4.0 RECOMMENDATIONS

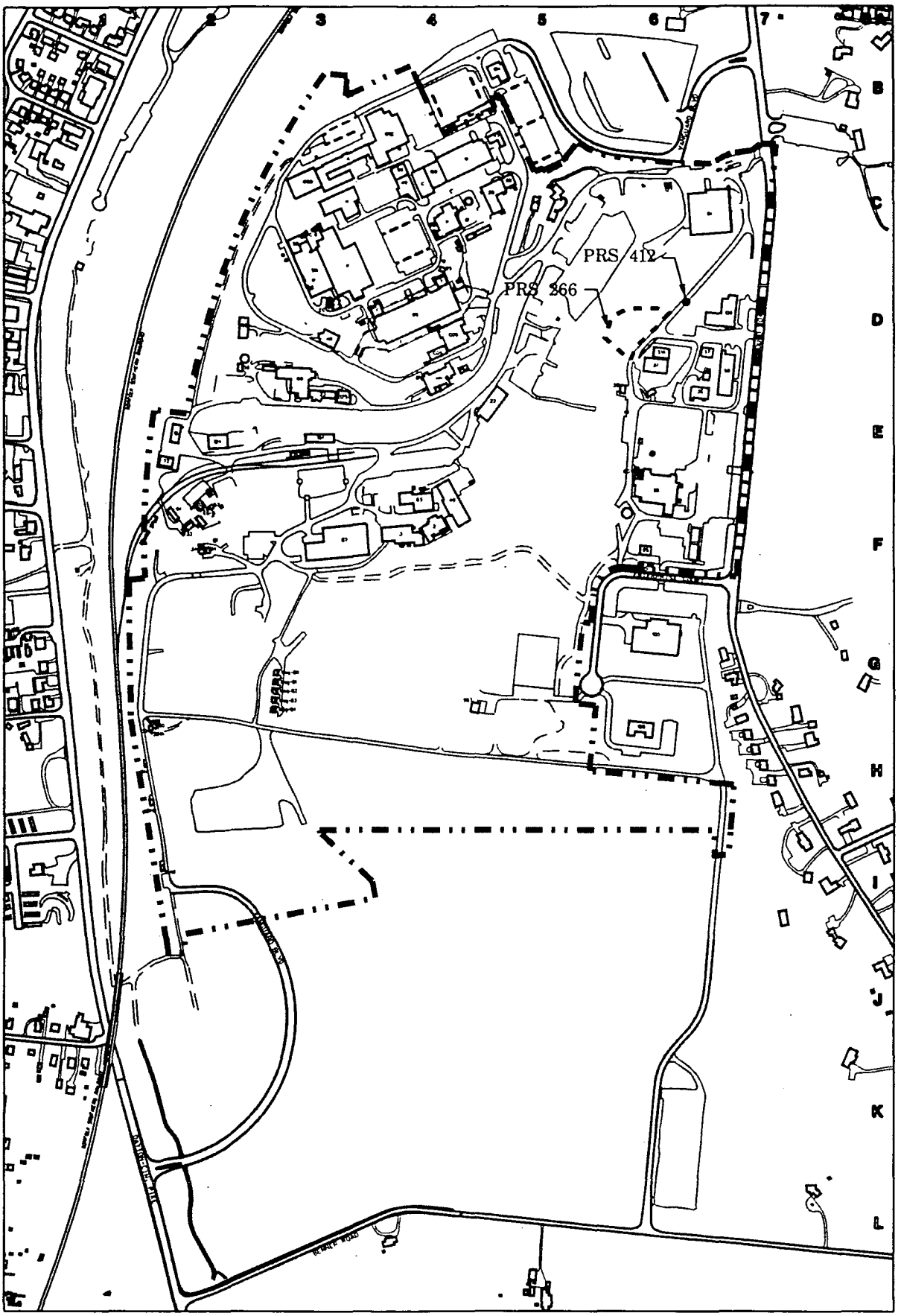
4.1 Means to Prevent a Recurrence

The waste was removed and therefore spread of contamination is prevented. Recurrence will be prevented, as it is no longer acceptable to stage or dispose of potentially contaminated material in the historic manner that led to these soil contamination events. These areas will

be transferred from federal to private ownership. All State and Federal disposal rules will apply.

APPENDIX A

FIGURES



Legend

- Structures
- Paved roadway
- Unpaved roadway
- Railroad
- Water course
- Fence
- Mound Plant boundary
- Contour line

0 100 200 400 600 800 1000

Scale in Feet

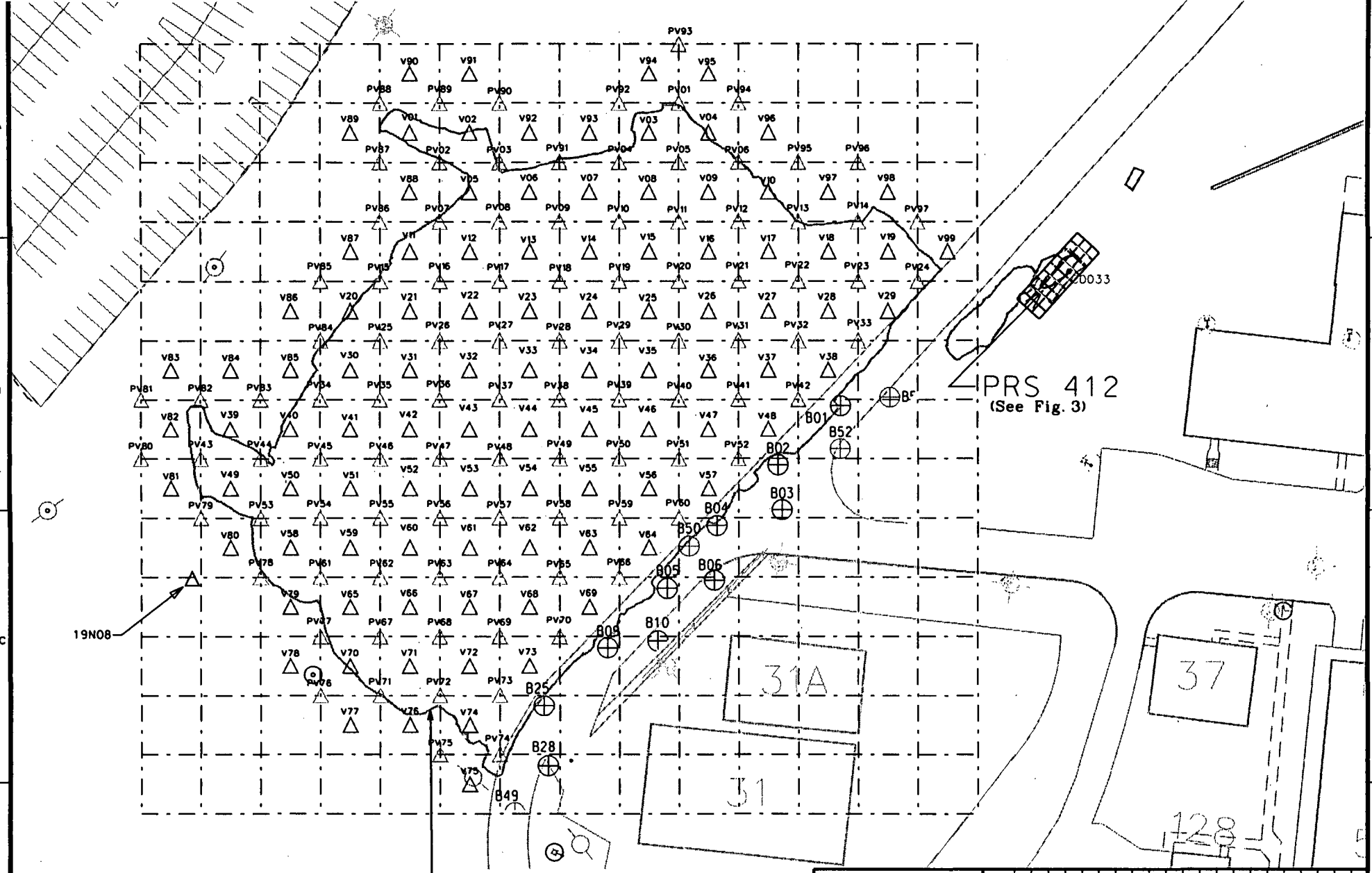
A	04/01/02	ISSUE FOR GENERAL USE	SSP			
REV	DATE	REVISION	BY	CHKD	CKC	M

MOUND

Environmental Restoration Geographic Information System

SHEET 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27	
ISSUE	
SHEET 1 2 3 4 5 6	TITLE CLASSIFICATION
ISSUE 4	Figure 1 Location of PRS 266 & 412
PART CLASSIFICATION	
DRAWING CLASSIFICATION UNCLASSIFIED	SIZE D / DRAWING NUMBER gen_site_plan.dgn / JOB NUMBER
DWG TYPE SITE / PROJ	CLASS / SCALE Graphic / SHEET 1 OF
STATUS WD-REL-09/14/99	ORIGIN MOUND / J

gen_site_plan.dgn

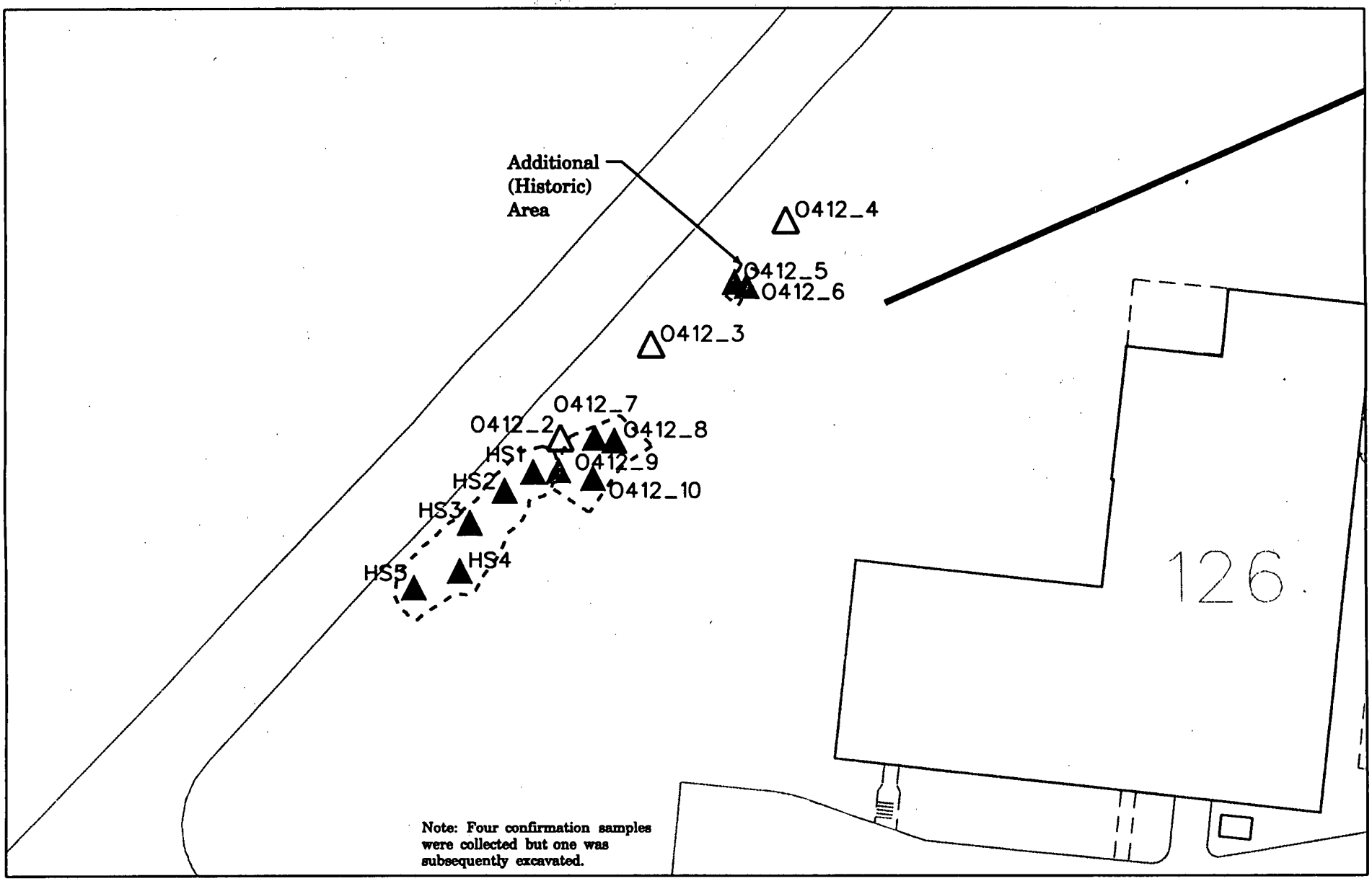


MOUND
Environmental Restoration Geographic Information System

FIGURE 2
PRS 266
SAMPLE LOCATIONS

DRAWING CLASSIFICATION: UNCLASSIFIED
DRAWING NUMBER: verification.grida.dgn
DGN TYPE: STE | PRMG: ER-GIS | SCALE GRAPHIC | SHEET 1 OF 1
STATUS: MD-REL-03/14/02 | ORIGIN: MSTATION / J

ISS	DATE	REVISION	BY	CHKR	ENG	LPREC	APVD	B
	03/12/03		SSP					



Verification Sample

Confirmation Sample

Excavation Boundary

20 10 0 20 40FT

GRAPHIC SCALE

MOUND

Environmental Restoration Geographic Information System

03/05/03		SSF					
DATE	REVISION	BY	CHKR	DSG	UPDC	APVD	B

Figure 3: PRS 412 Sample Locations

UNCLASSIFIED

fig3verif.dgn

DGN TYPE STE PRNS ER-GIS SCALE SHEET 1 OF 1

STATUS MD-REL-03/05/03 ORIGIN MSTATION / J

APPENDIX B

TABLES

Table 1: Organization of the Removal Action

US Environmental Protection Agency SFR-5J 77 W. Jackson Street Chicago, IL 60604 312-353-2000	David P. Seely	Federal agency responsible for oversight
Ohio Environmental Protection Agency 401 E. Fifth Street Dayton, OH 45402-2911 937-285-6357	Brian Nickel	State agency responsible for oversight
Dept. of Energy, Miamisburg Closure Project P.O. Box 66 1 Mound Road Miamisburg, OH 45343-0066 937-865-3597	Paul Lucas	On-scene Coordinator (OSC) responsible for oversight and success
BWXT of Ohio and CH2MHill Environmental Restoration Project 1 Mound Road Miamisburg, OH 45343-3030 937-865-4543	Monte Williams	Provide OSC with technical assistance, administrative support, field oversight, sample management, site safety, photo, site documentation, and preparation of the OSC Report

Table 2: Materials and Disposition*

Type of Material	Quantity	Disposal Method	Disposal Location
contaminated soil	18,000 yd^3	Rail transport	Envirocare

Table 3: Removal Cost*

Cost Category	Cost
Fieldwork	$350,111
Transportation of Contaminated Soil	$1,880,000
Disposal of Contaminated Soil	$2,644,000
Sample Plan, Verification Sampling & Analyses, and Data Validation	$87,000
Restoration/grading/seeding	$20,000
Estimated Total Project Cost	**$4,981,111**

* Tables indicate the sum of soil removed and cost for PRSs 266 and 412. Soil volume and cost for PRS 412 were well less than 1% of the total.

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003072	V98	Plutonium-238	8/14/02	3.4500	0.0121		
003071	V98	Plutonium-238	8/14/02	3.1800	0.0076		
003026	V76	Plutonium-238	8/13/02	3.0100	0.0105		
003021	V99	Plutonium-238	8/12/02	2.9100	0.0115		
003057	V95	Plutonium-238	8/14/02	1.7800	0.0057		
003103	V85	Plutonium-238	8/16/02	1.5700	0.0117		
003058	V96	Plutonium-238	8/14/02	1.4500	0.0262		
003056	V94	Plutonium-238	8/14/02	1.3500	0.0132		
003067	V01	Plutonium-238	8/14/02	1.2400	0.0112		
003113	V81	Plutonium-238	8/16/02	1.1900	0.0160		
003098	V04	Plutonium-238	8/15/02	1.1700	0.0161		
003109	V39	Plutonium-238	8/16/02	1.0200	0.0053		
003068	V89	Plutonium-238	8/14/02	0.7390	0.0101		
003089	V20	Plutonium-238	8/15/02	0.6620	0.0149		
003110	V82	Plutonium-238	8/16/02	0.6160	0.0073		
003095	V88	Plutonium-238	8/15/02	0.5950	0.0049		
003027	V78	Plutonium-238	8/13/02	0.5720	0.0046		
003081	V87	Plutonium-238	8/15/02	0.5700	0.0053		
003001	V75	Plutonium-238	8/12/02	0.5540	0.0122		
003082	V87	Plutonium-238	8/15/02	0.5010	0.0062		
003029	V77	Plutonium-238	8/13/02	0.4930	0.0049		
003018	V28	Plutonium-238	8/12/02	0.4860	0.0124		
003090	V86	Plutonium-238	8/15/02	0.4630	0.0062		
003053	V93	Plutonium-238	8/14/02	0.4600	0.0053		
003070	V97	Plutonium-238	8/14/02	0.4600	0.0121		
003065	V90	Plutonium-238	8/14/02	0.4590	0.0125		
003114	V02	Plutonium-238	8/16/02	0.4470	0.0063		
003022	V71	Plutonium-238	8/12/02	0.4130	0.0052		
003030	V79	Plutonium-238	8/13/02	0.4060	0.0050		
003028	V77	Plutonium-238	8/13/02	0.3520	0.0120		
003019	V29	Plutonium-238	8/12/02	0.3320	0.0105		
003060	V92	Plutonium-238	8/14/02	0.3160	0.0055		
003094	V84	Plutonium-238	8/15/02	0.3090	0.0076		
003092	V80	Plutonium-238	8/15/02	0.3040	0.0250		
003059	V91	Plutonium-238	8/14/02	0.2840	0.0043		
003066	V05	Plutonium-238	8/14/02	0.1700	0.0062		
003002	V74	Plutonium-238	8/12/02	0.1440	0.0075		
003063	V09	Plutonium-238	8/14/02	0.1330	0.0180		
003025	V70	Plutonium-238	8/12/02	0.1190	0.0047		
003078	V18	Plutonium-238	8/15/02	0.1120	0.0203		
003105	V83	Plutonium-238	8/16/02	0.0945	0.0057		
003108	V40	Plutonium-238	8/16/02	0.0674	0.0107		
003020	V19	Plutonium-238	8/12/02	0.0649	0.0073		
003112	V49	Plutonium-238	8/16/02	0.0636	0.0206		
003010	V64	Plutonium-238	8/12/02	0.0617	0.0076		
003111	V50	Plutonium-238	8/16/02	0.0553	0.0088		
003052	V03	Plutonium-238	8/14/02	0.0546	0.0164		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003064	V10	Plutonium-238	8/14/02	0.0542	0.0113		
003012	V57	Plutonium-238	8/12/02	0.0535	0.0165		
003051	V03	Plutonium-238	8/14/02	0.0489	0.0202		
003044	V62	Plutonium-238	8/13/02	0.0466	0.0067		
003007	V68	Plutonium-238	8/12/02	0.0419	0.0081		
003015	V48	Plutonium-238	8/12/02	0.0413	0.0080		
003076	V16	Plutonium-238	8/15/02	0.0409	0.0327		
003104	V32	Plutonium-238	8/16/02	0.0391	0.0391	U	
003080	V11	Plutonium-238	8/15/02	0.0374	0.0374	U	
003013	V47	Plutonium-238	8/12/02	0.0367	0.0071		
003087	V22	Plutonium-238	8/15/02	0.0356	0.0081		
003014	V47	Plutonium-238	8/12/02	0.0350	0.0056		
003096	V26	Plutonium-238	8/15/02	0.0340	0.0307		
003017	V38	Plutonium-238	8/12/02	0.0324	0.0055		
003049	V36	Plutonium-238	8/13/02	0.0307	0.0208		
003006	V73	Plutonium-238	8/12/02	0.0296	0.0045		
003062	V06	Plutonium-238	8/14/02	0.0290	0.0290	U	
003074	V15	Plutonium-238	8/14/02	0.0279	0.0279	U	
003088	V21	Plutonium-238	8/15/02	0.0262	0.0142		
003043	V51	Plutonium-238	8/13/02	0.0254	0.0254	U	
003061	V06	Plutonium-238	8/14/02	0.0247	0.0223		
003097	V14	Plutonium-238	8/15/02	0.0246	0.0067		
003077	V17	Plutonium-238	8/15/02	0.0221	0.0067		
003039	V46	Plutonium-238	8/13/02	0.0216	0.0216	U	
003084	V25	Plutonium-238	8/15/02	0.0215	0.0215	U	
003040	V65	Plutonium-238	8/13/02	0.0207	0.0094		
003024	V66	Plutonium-238	8/12/02	0.0204	0.0204	U	
003101	V33	Plutonium-238	8/16/02	0.0203	0.0203	U	
003016	V37	Plutonium-238	8/12/02	0.0166	0.0064		
003042	V60	Plutonium-238	8/13/02	0.0157	0.0157	U	
003085	V24	Plutonium-238	8/15/02	0.0156	0.0156	U	
003055	V08	Plutonium-238	8/14/02	0.0148	0.0057		
003050	V35	Plutonium-238	8/13/02	0.0146	0.0146	U	
003036	V45	Plutonium-238	8/13/02	0.0146	0.0146	U	
003008	V69	Plutonium-238	8/12/02	0.0140	0.0140	U	
003011	V56	Plutonium-238	8/12/02	0.0138	0.0094		
003073	V13	Plutonium-238	8/14/02	0.0135	0.0073		
003083	V27	Plutonium-238	8/15/02	0.0135	0.0135	U	
003005	V67	Plutonium-238	8/12/02	0.0133	0.0051		
003099	V31	Plutonium-238	8/15/02	0.0122	0.0111		
003045	V43	Plutonium-238	8/13/02	0.0119	0.0107		
003037	V44	Plutonium-238	8/13/02	0.0117	0.0045		
003034	V52	Plutonium-238	8/13/02	0.0114	0.0114	U	
003106	V41	Plutonium-238	8/16/02	0.0108	0.0097		
003031	V61	Plutonium-238	8/13/02	0.0106	0.0041		
003003	V72	Plutonium-238	8/12/02	0.0105	0.0095		
003035	V52	Plutonium-238	8/13/02	0.0104	0.0104	U	

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003032	V53	Plutonium-238	8/13/02	0.0104	0.0047		
003009	V63	Plutonium-238	8/12/02	0.0101	0.0055		
003054	V07	Plutonium-238	8/14/02	0.0100	0.0090	J	
003100	V31	Plutonium-238	8/15/02	0.0099	0.0099	U	
003102	V30	Plutonium-238	8/16/02	0.0093	0.0093	U	
003091	V34	Plutonium-238	8/15/02	0.0091	0.0082	J	
003041	V58	Plutonium-238	8/13/02	0.0091	0.0049	J	
003004	V67	Plutonium-238	8/12/02	0.0083	0.0083	U	
003033	V55	Plutonium-238	8/13/02	0.0082	0.0082	U	
003079	V12	Plutonium-238	8/15/02	0.0065	0.0059	J	
003086	V23	Plutonium-238	8/15/02	0.0064	0.0064	U	
003046	V54	Plutonium-238	8/13/02	0.0060	0.0060	U	
003107	V41	Plutonium-238	8/16/02	0.0059	0.0059	U	
003038	V59	Plutonium-238	8/13/02	0.0051	0.0051	U	
003048	V42	Plutonium-238	8/13/02	0.0045	0.0045	U	
003004	V67	Plutonium-239/240	8/12/02	0.0765	0.0083		
003104	V32	Plutonium-239/240	8/16/02	0.0479	0.0479	U	
003080	V11	Plutonium-239/240	8/15/02	0.0458	0.0458	U	
003063	V09	Plutonium-239/240	8/14/02	0.0398	0.0398	U	
003072	V98	Plutonium-239/240	8/14/02	0.0375	0.0375	U	
003067	V01	Plutonium-239/240	8/14/02	0.0372	0.0112		
003098	V04	Plutonium-239/240	8/15/02	0.0355	0.0355	U	
003062	V06	Plutonium-239/240	8/14/02	0.0355	0.0355	U	
003096	V26	Plutonium-239/240	8/15/02	0.0307	0.0307	U	
003058	V96	Plutonium-239/240	8/14/02	0.0289	0.0261		
003057	V95	Plutonium-239/240	8/14/02	0.0283	0.0126		
003026	V76	Plutonium-239/240	8/13/02	0.0262	0.0129		
003092	V80	Plutonium-239/240	8/15/02	0.0249	0.0249	U	
003061	V06	Plutonium-239/240	8/14/02	0.0223	0.0223	U	
003049	V36	Plutonium-239/240	8/13/02	0.0208	0.0208	U	
003040	V65	Plutonium-239/240	8/13/02	0.0207	0.0207	U	
003097	V14	Plutonium-239/240	8/15/02	0.0206	0.0206	U	
003024	V66	Plutonium-239/240	8/12/02	0.0204	0.0204	U	
003078	V18	Plutonium-239/240	8/15/02	0.0203	0.0203	U	
003054	V07	Plutonium-239/240	8/14/02	0.0199	0.0199	U	
003056	V94	Plutonium-239/240	8/14/02	0.0198	0.0060		
003089	V20	Plutonium-239/240	8/15/02	0.0183	0.0183	U	
003036	V45	Plutonium-239/240	8/13/02	0.0179	0.0179	U	
003095	V88	Plutonium-239/240	8/15/02	0.0179	0.0049		
003043	V51	Plutonium-239/240	8/13/02	0.0169	0.0115		
003071	V98	Plutonium-239/240	8/14/02	0.0168	0.0076		
003052	V03	Plutonium-239/240	8/14/02	0.0164	0.0164	U	
003073	V13	Plutonium-239/240	8/14/02	0.0162	0.0162	U	
003065	V90	Plutonium-239/240	8/14/02	0.0156	0.0125		
003076	V16	Plutonium-239/240	8/15/02	0.0148	0.0148	U	
003088	V21	Plutonium-239/240	8/15/02	0.0142	0.0142	U	
003066	V05	Plutonium-239/240	8/14/02	0.0138	0.0138	U	

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003090	V86	Plutonium-239/240	8/15/02	0.0137	0.0137	U	
003082	V87	Plutonium-239/240	8/15/02	0.0137	0.0137	U	
003083	V27	Plutonium-239/240	8/15/02	0.0134	0.0134	U	
003074	V15	Plutonium-239/240	8/14/02	0.0126	0.0126	U	
003105	V83	Plutonium-239/240	8/16/02	0.0126	0.0126	U	
003070	V97	Plutonium-239/240	8/14/02	0.0121	0.0121	U	
003103	V85	Plutonium-239/240	8/16/02	0.0117	0.0117	U	
003081	V87	Plutonium-239/240	8/15/02	0.0117	0.0117	U	
003021	V99	Plutonium-239/240	8/12/02	0.0115	0.0115	U	
003019	V29	Plutonium-239/240	8/12/02	0.0114	0.0105		
003064	V10	Plutonium-239/240	8/14/02	0.0113	0.0113	U	
003099	V31	Plutonium-239/240	8/15/02	0.0110	0.0110	U	
003020	V19	Plutonium-239/240	8/12/02	0.0108	0.0073		
003108	V40	Plutonium-239/240	8/16/02	0.0107	0.0107	U	
003045	V43	Plutonium-239/240	8/13/02	0.0107	0.0107	U	
003035	V52	Plutonium-239/240	8/13/02	0.0104	0.0104	U	
003025	V70	Plutonium-239/240	8/12/02	0.0103	0.0103	U	
003037	V44	Plutonium-239/240	8/13/02	0.0100	0.0100	U	
003068	V89	Plutonium-239/240	8/14/02	0.0100	0.0100	U	
003006	V73	Plutonium-239/240	8/12/02	0.0099	0.0099	U	
003100	V31	Plutonium-239/240	8/15/02	0.0098	0.0098	U	
003109	V39	Plutonium-239/240	8/16/02	0.0097	0.0053	J	
003106	V41	Plutonium-239/240	8/16/02	0.0097	0.0097	U	
003039	V46	Plutonium-239/240	8/13/02	0.0097	0.0097	U	
003084	V25	Plutonium-239/240	8/15/02	0.0097	0.0097	U	
003059	V91	Plutonium-239/240	8/14/02	0.0096	0.0043	J	
003003	V72	Plutonium-239/240	8/12/02	0.0095	0.0095	U	
003011	V56	Plutonium-239/240	8/12/02	0.0094	0.0094	U	
003112	V49	Plutonium-239/240	8/16/02	0.0093	0.0093	U	
003102	V30	Plutonium-239/240	8/16/02	0.0093	0.0093	U	
003101	V33	Plutonium-239/240	8/16/02	0.0092	0.0092	U	
003051	V03	Plutonium-239/240	8/14/02	0.0091	0.0091	U	
003111	V50	Plutonium-239/240	8/16/02	0.0088	0.0088	U	
003002	V74	Plutonium-239/240	8/12/02	0.0083	0.0075	J	
003033	V55	Plutonium-239/240	8/13/02	0.0082	0.0082	U	
003091	V34	Plutonium-239/240	8/15/02	0.0082	0.0082	U	
003007	V68	Plutonium-239/240	8/12/02	0.0081	0.0081	U	
003087	V22	Plutonium-239/240	8/15/02	0.0080	0.0080	U	
003113	V81	Plutonium-239/240	8/16/02	0.0080	0.0072	J	
003015	V48	Plutonium-239/240	8/12/02	0.0080	0.0080	U	
003022	V71	Plutonium-239/240	8/12/02	0.0076	0.0052	J	
003094	V84	Plutonium-239/240	8/15/02	0.0076	0.0076	U	
003010	V64	Plutonium-239/240	8/12/02	0.0076	0.0076	U	
003012	V57	Plutonium-239/240	8/12/02	0.0074	0.0074	U	
003110	V82	Plutonium-239/240	8/16/02	0.0073	0.0073	U	
003013	V47	Plutonium-239/240	8/12/02	0.0071	0.0071	U	
003042	V60	Plutonium-239/240	8/13/02	0.0071	0.0071	U	

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003085	V24	Plutonium-239/240	8/15/02	0.0070	0.0070	U	
003114	V02	Plutonium-239/240	8/16/02	0.0070	0.0063	J	
003077	V17	Plutonium-239/240	8/15/02	0.0067	0.0067	U	
003044	V62	Plutonium-239/240	8/13/02	0.0067	0.0067	U	
003050	V35	Plutonium-239/240	8/13/02	0.0066	0.0066	U	
003016	V37	Plutonium-239/240	8/12/02	0.0064	0.0064	U	
003086	V23	Plutonium-239/240	8/15/02	0.0064	0.0064	U	
003008	V69	Plutonium-239/240	8/12/02	0.0063	0.0063	U	
003060	V92	Plutonium-239/240	8/14/02	0.0060	0.0054	J	
003046	V54	Plutonium-239/240	8/13/02	0.0060	0.0060	U	
003107	V41	Plutonium-239/240	8/16/02	0.0059	0.0059	U	
003079	V12	Plutonium-239/240	8/15/02	0.0059	0.0059	U	
003053	V93	Plutonium-239/240	8/14/02	0.0058	0.0053	J	
003055	V08	Plutonium-239/240	8/14/02	0.0057	0.0057	U	
003018	V28	Plutonium-239/240	8/12/02	0.0056	0.0056	U	
003014	V47	Plutonium-239/240	8/12/02	0.0056	0.0056	U	
003017	V38	Plutonium-239/240	8/12/02	0.0055	0.0055	U	
003001	V75	Plutonium-239/240	8/12/02	0.0055	0.0055	U	
003009	V63	Plutonium-239/240	8/12/02	0.0055	0.0055	U	
003028	V77	Plutonium-239/240	8/13/02	0.0054	0.0054	U	
003034	V52	Plutonium-239/240	8/13/02	0.0052	0.0052	U	
003005	V67	Plutonium-239/240	8/12/02	0.0051	0.0051	U	
003038	V59	Plutonium-239/240	8/13/02	0.0051	0.0051	U	
003030	V79	Plutonium-239/240	8/13/02	0.0050	0.0050	U	
003029	V77	Plutonium-239/240	8/13/02	0.0049	0.0049	U	
003041	V58	Plutonium-239/240	8/13/02	0.0049	0.0049	U	
003032	V53	Plutonium-239/240	8/13/02	0.0047	0.0047	U	
003027	V78	Plutonium-239/240	8/13/02	0.0046	0.0046	U	
003048	V42	Plutonium-239/240	8/13/02	0.0045	0.0045	U	
003031	V61	Plutonium-239/240	8/13/02	0.0041	0.0041	U	
003044	V62	Thorium-228	8/13/02	2.8500	0.0203		
003018	V28	Thorium-228	8/12/02	1.9100	0.0129		
003013	V47	Thorium-228	8/12/02	1.6100	0.0128		J
003014	V47	Thorium-228	8/12/02	1.5700	0.0101		
003019	V29	Thorium-228	8/12/02	1.5600	0.0222		
003101	V33	Thorium-228	8/16/02	1.3900	0.0229		
003030	V79	Thorium-228	8/13/02	1.3600	0.0255		
003063	V09	Thorium-228	8/14/02	1.3500	0.0272		
003108	V40	Thorium-228	8/16/02	1.3200	0.0135		
003076	V16	Thorium-228	8/15/02	1.3000	0.0130		
003017	V38	Thorium-228	8/12/02	1.3000	0.0273		
003026	V76	Thorium-228	8/13/02	1.3000	0.0136		
003022	V71	Thorium-228	8/12/02	1.2700	0.0117		
003084	V25	Thorium-228	8/15/02	1.2600	0.0133		
003020	V19	Thorium-228	8/12/02	1.2200	0.0168		
003064	V10	Thorium-228	8/14/02	1.2000	0.0051		
003024	V66	Thorium-228	8/12/02	1.2000	0.0130		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003089	V20	Thorium-228	8/15/02	1.1700	0.0321		
003056	V94	Thorium-228	8/14/02	1.1700	0.0186		
003050	V35	Thorium-228	8/13/02	1.1600	0.0130		
003111	V50	Thorium-228	8/16/02	1.1600	0.0137		
003007	V68	Thorium-228	8/12/02	1.1500	0.0141		
003058	V96	Thorium-228	8/14/02	1.1500	0.0484		
003078	V18	Thorium-228	8/15/02	1.1300	0.0160		
003112	V49	Thorium-228	8/16/02	1.1300	0.0327		
003096	V26	Thorium-228	8/15/02	1.1200	0.0519		
003091	V34	Thorium-228	8/15/02	1.1200	0.0122		
003070	V97	Thorium-228	8/14/02	1.1100	0.0128		
003051	V03	Thorium-228	8/14/02	1.1000	0.0113		
003077	V17	Thorium-228	8/15/02	1.1000	0.0050		
003088	V21	Thorium-228	8/15/02	1.1000	0.0180		
003036	V45	Thorium-228	8/13/02	1.0900	0.0166		
003057	V95	Thorium-228	8/14/02	1.0900	0.0129		
003067	V01	Thorium-228	8/14/02	1.0800	0.0144		
003097	V14	Thorium-228	8/15/02	1.0800	0.0229		
003009	V63	Thorium-228	8/12/02	1.0600	0.0149		
003059	V91	Thorium-228	8/14/02	1.0600	0.0145		
003062	V06	Thorium-228	8/14/02	1.0500	0.0137		
003087	V22	Thorium-228	8/15/02	1.0500	0.0052		
003098	V04	Thorium-228	8/15/02	1.0400	0.0200		
003012	V57	Thorium-228	8/12/02	1.0300	0.0218		
003041	V58	Thorium-228	8/13/02	1.0300	0.0141		
003072	V98	Thorium-228	8/14/02	1.0300	0.0148		
003109	V39	Thorium-228	8/16/02	1.0200	0.0133		
003032	V53	Thorium-228	8/13/02	1.0200	0.0173		
003029	V77	Thorium-228	8/13/02	1.0200	0.0139		
003011	V56	Thorium-228	8/12/02	1.0000	0.0174		
003028	V77	Thorium-228	8/13/02	1.0000	0.0240		
003002	V74	Thorium-228	8/12/02	0.9980	0.0105		
003037	V44	Thorium-228	8/13/02	0.9890	0.0207		
003095	V88	Thorium-228	8/15/02	0.9860	0.0328		
003074	V15	Thorium-228	8/14/02	0.9800	0.0206		
003025	V70	Thorium-228	8/12/02	0.9790	0.0110		
003080	V11	Thorium-228	8/15/02	0.9660	0.0104		
003043	V51	Thorium-228	8/13/02	0.9650	0.0097		
003048	V42	Thorium-228	8/13/02	0.9640	0.0343		
003010	V64	Thorium-228	8/12/02	0.9550	0.0049		
003071	V98	Thorium-228	8/14/02	0.9510	0.0060		
003053	V93	Thorium-228	8/14/02	0.9490	0.0054		
003040	V65	Thorium-228	8/13/02	0.9430	0.0106		
003094	V84	Thorium-228	8/15/02	0.9390	0.0057		
003038	V59	Thorium-228	8/13/02	0.9360	0.0108		
003079	V12	Thorium-228	8/15/02	0.9240	0.0209		
003102	V30	Thorium-228	8/16/02	0.9190	0.0144		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003106	V41	Thorium-228	8/16/02	0.9130	0.0130		
003055	V08	Thorium-228	8/14/02	0.9110	0.0309		
003092	V80	Thorium-228	8/15/02	0.9060	0.0541		
003005	V67	Thorium-228	8/12/02	0.9030	0.0047		
003068	V89	Thorium-228	8/14/02	0.9010	0.0148		
003100	V31	Thorium-228	8/15/02	0.8990	0.0168		
003049	V36	Thorium-228	8/13/02	0.8870	0.0263		
003031	V61	Thorium-228	8/13/02	0.8860	0.0147		
003061	V06	Thorium-228	8/14/02	0.8840	0.0212		
003015	V48	Thorium-228	8/12/02	0.8800	0.0108		
003073	V13	Thorium-228	8/14/02	0.8790	0.0046		
003104	V32	Thorium-228	8/16/02	0.8790	0.0207		
003045	V43	Thorium-228	8/13/02	0.8710	0.0146		
003099	V31	Thorium-228	8/15/02	0.8670	0.0048		
003033	V55	Thorium-228	8/13/02	0.8640	0.0123		
003004	V67	Thorium-228	8/12/02	0.8560	0.0127		
003054	V07	Thorium-228	8/14/02	0.8400	0.0278		
003086	V23	Thorium-228	8/15/02	0.8400	0.0158		
003066	V05	Thorium-228	8/14/02	0.8260	0.0245		
003006	V73	Thorium-228	8/12/02	0.8250	0.0258		
003114	V02	Thorium-228	8/16/02	0.8210	0.0152		
003008	V69	Thorium-228	8/12/02	0.8200	0.0217		
003105	V83	Thorium-228	8/16/02	0.8180	0.0161		
003082	V87	Thorium-228	8/15/02	0.8160	0.0134		
003060	V92	Thorium-228	8/14/02	0.8040	0.0050		
003003	V72	Thorium-228	8/12/02	0.8010	0.0097		J
003107	V41	Thorium-228	8/16/02	0.7940	0.0102		
003039	V46	Thorium-228	8/13/02	0.7920	0.0104		
003035	V52	Thorium-228	8/13/02	0.7920	0.0133		
003113	V81	Thorium-228	8/16/02	0.7870	0.0409		
003042	V60	Thorium-228	8/13/02	0.7850	0.0046		
003090	V86	Thorium-228	8/15/02	0.7840	0.0143		
003103	V85	Thorium-228	8/16/02	0.7810	0.0438		
003046	V54	Thorium-228	8/13/02	0.7700	0.0263		
003081	V87	Thorium-228	8/15/02	0.7670	0.0121		
003065	V90	Thorium-228	8/14/02	0.7480	0.0208		
003052	V03	Thorium-228	8/14/02	0.7380	0.0140		
003110	V82	Thorium-228	8/16/02	0.7260	0.0278		
003027	V78	Thorium-228	8/13/02	0.7200	0.0052		
003085	V24	Thorium-228	8/15/02	0.6570	0.0209		
003034	V52	Thorium-228	8/13/02	0.6440	0.0214		
003016	V37	Thorium-228	8/12/02	0.6360	0.0046		
003001	V75	Thorium-228	8/12/02	0.4840	0.0116		
003021	V99	Thorium-228	8/12/02	0.3830	0.0247		
003083	V27	Thorium-228	8/15/02	0.2300	0.0048		
003013	V47	Thorium-230	8/12/02	0.9150	0.0100		J
003010	V64	Thorium-230	8/12/02	0.9130	0.0047		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003008	V69	Thorium-230	8/12/02	0.8400	0.0059		
003014	V47	Thorium-230	8/12/02	0.8040	0.0097		
003019	V29	Thorium-230	8/12/02	0.7390	0.0060		
003022	V71	Thorium-230	8/12/02	0.7170	0.0112		
003053	V93	Thorium-230	8/14/02	0.7140	0.0113		J
003020	V19	Thorium-230	8/12/02	0.7050	0.0063		
003094	V84	Thorium-230	8/15/02	0.7030	0.0054		
003059	V91	Thorium-230	8/14/02	0.6970	0.0112		
003044	V62	Thorium-230	8/13/02	0.6770	0.0128		
003007	V68	Thorium-230	8/12/02	0.6680	0.0104		
003036	V45	Thorium-230	8/13/02	0.6660	0.0103		
003077	V17	Thorium-230	8/15/02	0.6650	0.0048		
003072	V98	Thorium-230	8/14/02	0.6630	0.0064		
003003	V72	Thorium-230	8/12/02	0.6530	0.0093		J
003060	V92	Thorium-230	8/14/02	0.6510	0.0047		J
003006	V73	Thorium-230	8/12/02	0.6460	0.0109		
003071	V98	Thorium-230	8/14/02	0.6390	0.0057		
003026	V76	Thorium-230	8/13/02	0.6340	0.0059		
003064	V10	Thorium-230	8/14/02	0.6320	0.0049		
003101	V33	Thorium-230	8/16/02	0.6280	0.0129		
003025	V70	Thorium-230	8/12/02	0.6200	0.0048		
003057	V95	Thorium-230	8/14/02	0.6200	0.0123		
003105	V83	Thorium-230	8/16/02	0.6190	0.0057		
003056	V94	Thorium-230	8/14/02	0.6090	0.0065		
003109	V39	Thorium-230	8/16/02	0.6000	0.0057		
003051	V03	Thorium-230	8/14/02	0.5990	0.0108		
003067	V01	Thorium-230	8/14/02	0.5960	0.0138		
003002	V74	Thorium-230	8/12/02	0.5940	0.0100		
003114	V02	Thorium-230	8/16/02	0.5910	0.0057		
003090	V86	Thorium-230	8/15/02	0.5820	0.0137		
003082	V87	Thorium-230	8/15/02	0.5800	0.0058		
003078	V18	Thorium-230	8/15/02	0.5790	0.0100		
003011	V56	Thorium-230	8/12/02	0.5780	0.0102		
003092	V80	Thorium-230	8/15/02	0.5780	0.0234		
003103	V85	Thorium-230	8/16/02	0.5760	0.0088		
003012	V57	Thorium-230	8/12/02	0.5710	0.0127		
003095	V88	Thorium-230	8/15/02	0.5680	0.0162		
003017	V38	Thorium-230	8/12/02	0.5620	0.0128		
003068	V89	Thorium-230	8/14/02	0.5580	0.0142		
003081	V87	Thorium-230	8/15/02	0.5380	0.0115		
003009	V63	Thorium-230	8/12/02	0.5340	0.0061		
003018	V28	Thorium-230	8/12/02	0.5290	0.0108		
003015	V48	Thorium-230	8/12/02	0.5230	0.0047		
003112	V49	Thorium-230	8/16/02	0.5230	0.0167		
003063	V09	Thorium-230	8/14/02	0.5200	0.0125		
003089	V20	Thorium-230	8/15/02	0.5130	0.0175		
003024	V66	Thorium-230	8/12/02	0.5090	0.0101		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003030	V79	Thorium-230	8/13/02	0.5080	0.0069		
003058	V96	Thorium-230	8/14/02	0.5020	0.0460		
003098	V04	Thorium-230	8/15/02	0.4960	0.0082		
003033	V55	Thorium-230	8/13/02	0.4820	0.0101		
003052	V03	Thorium-230	8/14/02	0.4790	0.0109		
003108	V40	Thorium-230	8/16/02	0.4770	0.0105		
003113	V81	Thorium-230	8/16/02	0.4710	0.0082		
003076	V16	Thorium-230	8/15/02	0.4650	0.0060		
003001	V75	Thorium-230	8/12/02	0.4640	0.0111		
003028	V77	Thorium-230	8/13/02	0.4630	0.0112		
003111	V50	Thorium-230	8/16/02	0.4620	0.0045		
003096	V26	Thorium-230	8/15/02	0.4600	0.0437		
003065	V90	Thorium-230	8/14/02	0.4600	0.0130		
003084	V25	Thorium-230	8/15/02	0.4590	0.0112		
003066	V05	Thorium-230	8/14/02	0.4540	0.0148		
003029	V77	Thorium-230	8/13/02	0.4420	0.0117		
003040	V65	Thorium-230	8/13/02	0.4400	0.0101		
003070	V97	Thorium-230	8/14/02	0.4400	0.0122		
003041	V58	Thorium-230	8/13/02	0.4320	0.0109		
003091	V34	Thorium-230	8/15/02	0.4260	0.0095		
003074	V15	Thorium-230	8/14/02	0.4190	0.0058		
003110	V82	Thorium-230	8/16/02	0.4180	0.0183		
003021	V99	Thorium-230	8/12/02	0.4170	0.0139		
003050	V35	Thorium-230	8/13/02	0.4100	0.0101		
003088	V21	Thorium-230	8/15/02	0.4080	0.0100		
003031	V61	Thorium-230	8/13/02	0.4080	0.0060		
003080	V11	Thorium-230	8/15/02	0.4070	0.0100		
003097	V14	Thorium-230	8/15/02	0.4010	0.0062		
003055	V08	Thorium-230	8/14/02	0.3990	0.0062		
003039	V46	Thorium-230	8/13/02	0.3970	0.0099		
003061	V06	Thorium-230	8/14/02	0.3870	0.0103		
003049	V36	Thorium-230	8/13/02	0.3840	0.0092		
003004	V67	Thorium-230	8/12/02	0.3830	0.0045		
003037	V44	Thorium-230	8/13/02	0.3800	0.0125		
003005	V67	Thorium-230	8/12/02	0.3790	0.0045		
003099	V31	Thorium-230	8/15/02	0.3760	0.0046		
003046	V54	Thorium-230	8/13/02	0.3700	0.0137		
003087	V22	Thorium-230	8/15/02	0.3640	0.0049		
003062	V06	Thorium-230	8/14/02	0.3600	0.0112		
003102	V30	Thorium-230	8/16/02	0.3600	0.0043		
003079	V12	Thorium-230	8/15/02	0.3590	0.0126		
003048	V42	Thorium-230	8/13/02	0.3510	0.0068		
003027	V78	Thorium-230	8/13/02	0.3450	0.0050		
003073	V13	Thorium-230	8/14/02	0.3430	0.0044		
003106	V41	Thorium-230	8/16/02	0.3420	0.0101		
003086	V23	Thorium-230	8/15/02	0.3380	0.0060		
003104	V32	Thorium-230	8/16/02	0.3350	0.0138		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003038	V59	Thorium-230	8/13/02	0.3350	0.0103		
003054	V07	Thorium-230	8/14/02	0.3300	0.0142		
003107	V41	Thorium-230	8/16/02	0.3270	0.0097		
003100	V31	Thorium-230	8/15/02	0.3170	0.0099		
003043	V51	Thorium-230	8/13/02	0.3040	0.0092		
003045	V43	Thorium-230	8/13/02	0.2990	0.0044		
003032	V53	Thorium-230	8/13/02	0.2980	0.0101		
003042	V60	Thorium-230	8/13/02	0.2700	0.0044		
003034	V52	Thorium-230	8/13/02	0.2690	0.0060		
003085	V24	Thorium-230	8/15/02	0.2520	0.0057		
003035	V52	Thorium-230	8/13/02	0.2480	0.0061		
003016	V37	Thorium-230	8/12/02	0.2370	0.0044		
003083	V27	Thorium-230	8/15/02	0.1060	0.0046		
003044	V62	Thorium-232	8/13/02	2.7300	0.0176		
003101	V33	Thorium-232	8/16/02	1.9000	0.0109		
003018	V28	Thorium-232	8/12/02	1.8800	0.0076		
003019	V29	Thorium-232	8/12/02	1.4700	0.0060		
003013	V47	Thorium-232	8/12/02	1.3700	0.0045		
003026	V76	Thorium-232	8/13/02	1.2300	0.0059		
003017	V38	Thorium-232	8/12/02	1.2100	0.0139		
003014	V47	Thorium-232	8/12/02	1.1600	0.0097		
003063	V09	Thorium-232	8/14/02	1.1200	0.0125		
003089	V20	Thorium-232	8/15/02	1.1200	0.0148		
003030	V79	Thorium-232	8/13/02	1.1200	0.0069		
003070	V97	Thorium-232	8/14/02	1.1200	0.0055		
003022	V71	Thorium-232	8/12/02	1.1000	0.0112		
003038	V59	Thorium-232	8/13/02	1.0900	0.0103		
003007	V68	Thorium-232	8/12/02	1.0800	0.0079		
003064	V10	Thorium-232	8/14/02	1.0600	0.0049		
003020	V19	Thorium-232	8/12/02	1.0600	0.0063		
003076	V16	Thorium-232	8/15/02	1.0400	0.0060		
003058	V96	Thorium-232	8/14/02	1.0300	0.0208		
003098	V04	Thorium-232	8/15/02	1.0000	0.0082		
003057	V95	Thorium-232	8/14/02	1.0000	0.0123		
003072	V98	Thorium-232	8/14/02	0.9920	0.0064		
003111	V50	Thorium-232	8/16/02	0.9850	0.0105		
003078	V18	Thorium-232	8/15/02	0.9800	0.0100		
003053	V93	Thorium-232	8/14/02	0.9750	0.0113		
003010	V64	Thorium-232	8/12/02	0.9590	0.0047		
003056	V94	Thorium-232	8/14/02	0.9550	0.0115		
003108	V40	Thorium-232	8/16/02	0.9360	0.0047		
003109	V39	Thorium-232	8/16/02	0.9350	0.0127		
003084	V25	Thorium-232	8/15/02	0.9340	0.0078		
003112	V49	Thorium-232	8/16/02	0.9220	0.0072		
003051	V03	Thorium-232	8/14/02	0.9180	0.0049		
003097	V14	Thorium-232	8/15/02	0.9140	0.0062		
003077	V17	Thorium-232	8/15/02	0.9110	0.0048		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003068	V89	Thorium-232	8/14/02	0.9110	0.0064		
003071	V98	Thorium-232	8/14/02	0.9010	0.0126		
003036	V45	Thorium-232	8/13/02	0.8990	0.0103		
003092	V80	Thorium-232	8/15/02	0.8970	0.0234		
003059	V91	Thorium-232	8/14/02	0.8780	0.0051		
003012	V57	Thorium-232	8/12/02	0.8770	0.0108		
003029	V77	Thorium-232	8/13/02	0.8770	0.0081		
003067	V01	Thorium-232	8/14/02	0.8740	0.0138		
003088	V21	Thorium-232	8/15/02	0.8670	0.0100		
003091	V34	Thorium-232	8/15/02	0.8570	0.0043		
003015	V48	Thorium-232	8/12/02	0.8530	0.0047		
003062	V06	Thorium-232	8/14/02	0.8510	0.0085		
003055	V08	Thorium-232	8/14/02	0.8510	0.0144		
003095	V88	Thorium-232	8/15/02	0.8460	0.0162		
003080	V11	Thorium-232	8/15/02	0.8370	0.0100		
003074	V15	Thorium-232	8/14/02	0.8320	0.0058		
003082	V87	Thorium-232	8/15/02	0.8280	0.0058		
003002	V74	Thorium-232	8/12/02	0.8270	0.0045		
003094	V84	Thorium-232	8/15/02	0.8240	0.0120		
003040	V65	Thorium-232	8/13/02	0.8070	0.0046		
003028	V77	Thorium-232	8/13/02	0.8070	0.0112		
003041	V58	Thorium-232	8/13/02	0.8060	0.0049		
003087	V22	Thorium-232	8/15/02	0.7940	0.0049		
003009	V63	Thorium-232	8/12/02	0.7790	0.0061		
003011	V56	Thorium-232	8/12/02	0.7760	0.0102		
003024	V66	Thorium-232	8/12/02	0.7760	0.0046		
003060	V92	Thorium-232	8/14/02	0.7660	0.0105		
003025	V70	Thorium-232	8/12/02	0.7650	0.0105		
003050	V35	Thorium-232	8/13/02	0.7610	0.0101		
003049	V36	Thorium-232	8/13/02	0.7600	0.0163		
003061	V06	Thorium-232	8/14/02	0.7590	0.0092		
003096	V26	Thorium-232	8/15/02	0.7560	0.0305		
003032	V53	Thorium-232	8/13/02	0.7510	0.0101		
003031	V61	Thorium-232	8/13/02	0.7510	0.0060		
003103	V85	Thorium-232	8/16/02	0.7480	0.0222		
003033	V55	Thorium-232	8/13/02	0.7470	0.0076		
003114	V02	Thorium-232	8/16/02	0.7440	0.0101		
003113	V81	Thorium-232	8/16/02	0.7420	0.0191		
003006	V73	Thorium-232	8/12/02	0.7370	0.0109		
003081	V87	Thorium-232	8/15/02	0.7340	0.0052		
003043	V51	Thorium-232	8/13/02	0.7330	0.0251		
003073	V13	Thorium-232	8/14/02	0.7310	0.0098		
003046	V54	Thorium-232	8/13/02	0.7290	0.0059		
003003	V72	Thorium-232	8/12/02	0.7270	0.0206		
003045	V43	Thorium-232	8/13/02	0.7190	0.0102		
003008	V69	Thorium-232	8/12/02	0.7180	0.0059		
003004	V67	Thorium-232	8/12/02	0.7130	0.0045		

Table 4: PRS 266 Verification Offsite Rad Results (pCi/g)

COs (pCi/g) are: Pu-238 @ 55, Pu-239/240 @ 62, Th-228 @ 2.6, Th-230 @ 2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003102	V30	Thorium-232	8/16/02	0.6980	0.0101		
003005	V67	Thorium-232	8/12/02	0.6930	0.0122		
003042	V60	Thorium-232	8/13/02	0.6890	0.0096		
003100	V31	Thorium-232	8/15/02	0.6870	0.0099		
003052	V03	Thorium-232	8/14/02	0.6860	0.0049		
003066	V05	Thorium-232	8/14/02	0.6800	0.0125		
003099	V31	Thorium-232	8/15/02	0.6740	0.0046		
003106	V41	Thorium-232	8/16/02	0.6740	0.0101		
003107	V41	Thorium-232	8/16/02	0.6700	0.0044		
003037	V44	Thorium-232	8/13/02	0.6660	0.0106		
003110	V82	Thorium-232	8/16/02	0.6630	0.0253		
003105	V83	Thorium-232	8/16/02	0.6620	0.0100		
003048	V42	Thorium-232	8/13/02	0.6600	0.0159		
003090	V86	Thorium-232	8/15/02	0.6570	0.0137		
003079	V12	Thorium-232	8/15/02	0.6390	0.0107		
003054	V07	Thorium-232	8/14/02	0.6280	0.0061		
003104	V32	Thorium-232	8/16/02	0.6270	0.0171		
003039	V46	Thorium-232	8/13/02	0.6260	0.0045		
003027	V78	Thorium-232	8/13/02	0.6120	0.0135		
003086	V23	Thorium-232	8/15/02	0.6070	0.0060		
003035	V52	Thorium-232	8/13/02	0.5650	0.0061		
003016	V37	Thorium-232	8/12/02	0.5530	0.0120		
003065	V90	Thorium-232	8/14/02	0.5500	0.0130		
003085	V24	Thorium-232	8/15/02	0.5040	0.0057		
003001	V75	Thorium-232	8/12/02	0.4710	0.0111		
003034	V52	Thorium-232	8/13/02	0.4510	0.0060		
003021	V99	Thorium-232	8/12/02	0.3980	0.0118		
003083	V27	Thorium-232	8/15/02	0.2120	0.0101		

DQ: data qualifier
J: estimated value
LQ: lab qualifier
MDA: minimum detectable amount
U: not detected above MDA

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003036	V45	1,1,1-Trichloroethane	08/13/2002	12.0000	12.0000	U	
003037	V44	1,1,1-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003046	V54	1,1,1-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003033	V55	1,1,1-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003042	V60	1,1,1-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003031	V61	1,1,1-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003045	V43	1,1,1-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003035	V52	1,1,1-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003032	V53	1,1,1-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003044	V62	1,1,1-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003034	V52	1,1,1-Trichloroethane	08/13/2002	9.0000	9.0000	U	
003036	V45	1,1,2,2-Tetrachloroethane	08/13/2002	12.0000	12.0000	U	
003037	V44	1,1,2,2-Tetrachloroethane	08/13/2002	11.0000	11.0000	U	
003046	V54	1,1,2,2-Tetrachloroethane	08/13/2002	11.0000	11.0000	U	
003033	V55	1,1,2,2-Tetrachloroethane	08/13/2002	11.0000	11.0000	U	
003042	V60	1,1,2,2-Tetrachloroethane	08/13/2002	11.0000	11.0000	U	
003031	V61	1,1,2,2-Tetrachloroethane	08/13/2002	11.0000	11.0000	U	
003045	V43	1,1,2,2-Tetrachloroethane	08/13/2002	10.0000	10.0000	U	
003035	V52	1,1,2,2-Tetrachloroethane	08/13/2002	10.0000	10.0000	U	
003032	V53	1,1,2,2-Tetrachloroethane	08/13/2002	10.0000	10.0000	U	
003044	V62	1,1,2,2-Tetrachloroethane	08/13/2002	10.0000	10.0000	U	
003034	V52	1,1,2,2-Tetrachloroethane	08/13/2002	9.0000	9.0000	U	
003036	V45	1,1,2-Trichloroethane	08/13/2002	12.0000	12.0000	U	
003037	V44	1,1,2-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003046	V54	1,1,2-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003033	V55	1,1,2-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003042	V60	1,1,2-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003031	V61	1,1,2-Trichloroethane	08/13/2002	11.0000	11.0000	U	
003045	V43	1,1,2-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003035	V52	1,1,2-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003032	V53	1,1,2-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003044	V62	1,1,2-Trichloroethane	08/13/2002	10.0000	10.0000	U	
003034	V52	1,1,2-Trichloroethane	08/13/2002	9.0000	9.0000	U	
003036	V45	1,1-Dichloroethane	08/13/2002	12.0000	12.0000	U	
003037	V44	1,1-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003046	V54	1,1-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003033	V55	1,1-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003042	V60	1,1-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003031	V61	1,1-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003045	V43	1,1-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003035	V52	1,1-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003032	V53	1,1-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003044	V62	1,1-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003034	V52	1,1-Dichloroethane	08/13/2002	9.0000	9.0000	U	
003036	V45	1,1-Dichloroethene	08/13/2002	12.0000	12.0000	U	
003037	V44	1,1-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003046	V54	1,1-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003033	V55	1,1-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003042	V60	1,1-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003031	V61	1,1-Dichloroethene	08/13/2002	11.0000	11.0000	U	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003045	V43	1,1-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003035	V52	1,1-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003032	V53	1,1-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003044	V62	1,1-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003034	V52	1,1-Dichloroethene	08/13/2002	9.0000	9.0000	U	
003036	V45	1,2-Dichloroethane	08/13/2002	12.0000	12.0000	U	
003037	V44	1,2-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003046	V54	1,2-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003033	V55	1,2-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003042	V60	1,2-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003031	V61	1,2-Dichloroethane	08/13/2002	11.0000	11.0000	U	
003045	V43	1,2-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003035	V52	1,2-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003032	V53	1,2-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003044	V62	1,2-Dichloroethane	08/13/2002	10.0000	10.0000	U	
003034	V52	1,2-Dichloroethane	08/13/2002	9.0000	9.0000	U	
003036	V45	1,2-Dichloroethene	08/13/2002	12.0000	12.0000	U	
003037	V44	1,2-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003046	V54	1,2-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003033	V55	1,2-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003042	V60	1,2-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003031	V61	1,2-Dichloroethene	08/13/2002	11.0000	11.0000	U	
003045	V43	1,2-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003035	V52	1,2-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003032	V53	1,2-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003044	V62	1,2-Dichloroethene	08/13/2002	10.0000	10.0000	U	
003034	V52	1,2-Dichloroethene	08/13/2002	9.0000	9.0000	U	
003036	V45	1,2-Dichloropropane	08/13/2002	12.0000	12.0000	U	
003037	V44	1,2-Dichloropropane	08/13/2002	11.0000	11.0000	U	
003046	V54	1,2-Dichloropropane	08/13/2002	11.0000	11.0000	U	
003033	V55	1,2-Dichloropropane	08/13/2002	11.0000	11.0000	U	
003042	V60	1,2-Dichloropropane	08/13/2002	11.0000	11.0000	U	
003031	V61	1,2-Dichloropropane	08/13/2002	11.0000	11.0000	U	
003045	V43	1,2-Dichloropropane	08/13/2002	10.0000	10.0000	U	
003035	V52	1,2-Dichloropropane	08/13/2002	10.0000	10.0000	U	
003032	V53	1,2-Dichloropropane	08/13/2002	10.0000	10.0000	U	
003044	V62	1,2-Dichloropropane	08/13/2002	10.0000	10.0000	U	
003034	V52	1,2-Dichloropropane	08/13/2002	9.0000	9.0000	U	
003036	V45	1,3-cis-Dichloropropene	08/13/2002	12.0000	12.0000	U	
003037	V44	1,3-cis-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003046	V54	1,3-cis-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003033	V55	1,3-cis-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003042	V60	1,3-cis-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003031	V61	1,3-cis-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003045	V43	1,3-cis-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003035	V52	1,3-cis-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003032	V53	1,3-cis-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003044	V62	1,3-cis-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003034	V52	1,3-cis-Dichloropropene	08/13/2002	9.0000	9.0000	U	
003036	V45	1,3-trans-Dichloropropene	08/13/2002	12.0000	12.0000	U	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003037	V44	1,3-trans-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003046	V54	1,3-trans-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003033	V55	1,3-trans-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003042	V60	1,3-trans-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003031	V61	1,3-trans-Dichloropropene	08/13/2002	11.0000	11.0000	U	
003045	V43	1,3-trans-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003035	V52	1,3-trans-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003032	V53	1,3-trans-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003044	V62	1,3-trans-Dichloropropene	08/13/2002	10.0000	10.0000	U	
003034	V52	1,3-trans-Dichloropropene	08/13/2002	9.0000	9.0000	U	
003036	V45	2-Butanone	08/13/2002	12.0000	12.0000	U	
003037	V44	2-Butanone	08/13/2002	11.0000	11.0000	U	
003046	V54	2-Butanone	08/13/2002	11.0000	11.0000	U	
003033	V55	2-Butanone	08/13/2002	11.0000	11.0000	U	
003042	V60	2-Butanone	08/13/2002	11.0000	11.0000	U	
003031	V61	2-Butanone	08/13/2002	11.0000	11.0000	U	
003045	V43	2-Butanone	08/13/2002	10.0000	10.0000	U	
003035	V52	2-Butanone	08/13/2002	10.0000	10.0000	U	
003032	V53	2-Butanone	08/13/2002	10.0000	10.0000	U	
003044	V62	2-Butanone	08/13/2002	10.0000	10.0000	U	
003034	V52	2-Butanone	08/13/2002	9.0000	9.0000	U	UJ
003036	V45	2-Hexanone	08/13/2002	12.0000	12.0000	U	
003037	V44	2-Hexanone	08/13/2002	11.0000	11.0000	U	
003046	V54	2-Hexanone	08/13/2002	11.0000	11.0000	U	
003033	V55	2-Hexanone	08/13/2002	11.0000	11.0000	U	
003042	V60	2-Hexanone	08/13/2002	11.0000	11.0000	U	
003031	V61	2-Hexanone	08/13/2002	11.0000	11.0000	U	
003045	V43	2-Hexanone	08/13/2002	10.0000	10.0000	U	
003035	V52	2-Hexanone	08/13/2002	10.0000	10.0000	U	
003032	V53	2-Hexanone	08/13/2002	10.0000	10.0000	U	
003044	V62	2-Hexanone	08/13/2002	10.0000	10.0000	U	
003034	V52	2-Hexanone	08/13/2002	9.0000	9.0000	U	UJ
003036	V45	4-Methyl-2-pentanone	08/13/2002	12.0000	12.0000	U	
003037	V44	4-Methyl-2-pentanone	08/13/2002	11.0000	11.0000	U	
003046	V54	4-Methyl-2-pentanone	08/13/2002	11.0000	11.0000	U	
003033	V55	4-Methyl-2-pentanone	08/13/2002	11.0000	11.0000	U	
003042	V60	4-Methyl-2-pentanone	08/13/2002	11.0000	11.0000	U	
003031	V61	4-Methyl-2-pentanone	08/13/2002	11.0000	11.0000	U	
003045	V43	4-Methyl-2-pentanone	08/13/2002	10.0000	10.0000	U	
003035	V52	4-Methyl-2-pentanone	08/13/2002	10.0000	10.0000	U	
003032	V53	4-Methyl-2-pentanone	08/13/2002	10.0000	10.0000	U	
003044	V62	4-Methyl-2-pentanone	08/13/2002	10.0000	10.0000	U	
003034	V52	4-Methyl-2-pentanone	08/13/2002	9.0000	9.0000	U	UJ
003032	V53	Acetone	08/13/2002	13.0000		B	
003036	V45	Acetone	08/13/2002	12.0000	12.0000	U	
003031	V61	Acetone	08/13/2002	11.0000	11.0000	U	
003045	V43	Acetone	08/13/2002	10.0000		JB	
003037	V44	Acetone	08/13/2002	10.0000		JB	
003034	V52	Acetone	08/13/2002	9.0000		JB	U
003035	V52	Acetone	08/13/2002	7.0000		JB	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003042	V60	Acetone	08/13/2002	6.0000		JB	
003044	V62	Acetone	08/13/2002	6.0000		JB	
003033	V55	Acetone	08/13/2002	5.0000		JB	
003046	V54	Acetone	08/13/2002	4.0000		JB	
003036	V45	Benzene	08/13/2002	12.0000	12.0000	U	
003037	V44	Benzene	08/13/2002	11.0000	11.0000	U	
003046	V54	Benzene	08/13/2002	11.0000	11.0000	U	
003033	V55	Benzene	08/13/2002	11.0000	11.0000	U	
003042	V60	Benzene	08/13/2002	11.0000	11.0000	U	
003031	V61	Benzene	08/13/2002	11.0000	11.0000	U	
003045	V43	Benzene	08/13/2002	10.0000	10.0000	U	
003035	V52	Benzene	08/13/2002	10.0000	10.0000	U	
003032	V53	Benzene	08/13/2002	10.0000	10.0000	U	
003044	V62	Benzene	08/13/2002	10.0000	10.0000	U	
003034	V52	Benzene	08/13/2002	9.0000	9.0000	U	
003036	V45	Bromodichloromethane	08/13/2002	12.0000	12.0000	U	
003037	V44	Bromodichloromethane	08/13/2002	11.0000	11.0000	U	
003046	V54	Bromodichloromethane	08/13/2002	11.0000	11.0000	U	
003033	V55	Bromodichloromethane	08/13/2002	11.0000	11.0000	U	
003042	V60	Bromodichloromethane	08/13/2002	11.0000	11.0000	U	
003031	V61	Bromodichloromethane	08/13/2002	11.0000	11.0000	U	
003045	V43	Bromodichloromethane	08/13/2002	10.0000	10.0000	U	
003035	V52	Bromodichloromethane	08/13/2002	10.0000	10.0000	U	
003032	V53	Bromodichloromethane	08/13/2002	10.0000	10.0000	U	
003044	V62	Bromodichloromethane	08/13/2002	10.0000	10.0000	U	
003034	V52	Bromodichloromethane	08/13/2002	9.0000	9.0000	U	
003036	V45	Bromoform	08/13/2002	12.0000	12.0000	U	
003037	V44	Bromoform	08/13/2002	11.0000	11.0000	U	
003046	V54	Bromoform	08/13/2002	11.0000	11.0000	U	
003033	V55	Bromoform	08/13/2002	11.0000	11.0000	U	
003042	V60	Bromoform	08/13/2002	11.0000	11.0000	U	
003031	V61	Bromoform	08/13/2002	11.0000	11.0000	U	
003045	V43	Bromoform	08/13/2002	10.0000	10.0000	U	
003035	V52	Bromoform	08/13/2002	10.0000	10.0000	U	
003032	V53	Bromoform	08/13/2002	10.0000	10.0000	U	
003044	V62	Bromoform	08/13/2002	10.0000	10.0000	U	
003034	V52	Bromoform	08/13/2002	9.0000	9.0000	U	
003036	V45	Bromomethane	08/13/2002	12.0000	12.0000	U	
003037	V44	Bromomethane	08/13/2002	11.0000	11.0000	U	
003046	V54	Bromomethane	08/13/2002	11.0000	11.0000	U	
003033	V55	Bromomethane	08/13/2002	11.0000	11.0000	U	
003042	V60	Bromomethane	08/13/2002	11.0000	11.0000	U	
003031	V61	Bromomethane	08/13/2002	11.0000	11.0000	U	
003045	V43	Bromomethane	08/13/2002	10.0000	10.0000	U	
003035	V52	Bromomethane	08/13/2002	10.0000	10.0000	U	
003032	V53	Bromomethane	08/13/2002	10.0000	10.0000	U	
003044	V62	Bromomethane	08/13/2002	10.0000	10.0000	U	
003034	V52	Bromomethane	08/13/2002	9.0000	9.0000	U	
003036	V45	Carbon Disulfide	08/13/2002	12.0000	12.0000	U	
003037	V44	Carbon Disulfide	08/13/2002	11.0000	11.0000	U	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003046	V54	Carbon Disulfide	08/13/2002	11.0000	11.0000	U	
003033	V55	Carbon Disulfide	08/13/2002	11.0000	11.0000	U	
003042	V60	Carbon Disulfide	08/13/2002	11.0000	11.0000	U	
003031	V61	Carbon Disulfide	08/13/2002	11.0000	11.0000	U	
003045	V43	Carbon Disulfide	08/13/2002	10.0000	10.0000	U	
003035	V52	Carbon Disulfide	08/13/2002	10.0000	10.0000	U	
003032	V53	Carbon Disulfide	08/13/2002	10.0000	10.0000	U	
003044	V62	Carbon Disulfide	08/13/2002	10.0000	10.0000	U	
003034	V52	Carbon Disulfide	08/13/2002	9.0000	9.0000	U	
003036	V45	Carbon Tetrachloride	08/13/2002	12.0000	12.0000	U	
003037	V44	Carbon Tetrachloride	08/13/2002	11.0000	11.0000	U	
003046	V54	Carbon Tetrachloride	08/13/2002	11.0000	11.0000	U	
003033	V55	Carbon Tetrachloride	08/13/2002	11.0000	11.0000	U	
003042	V60	Carbon Tetrachloride	08/13/2002	11.0000	11.0000	U	
003031	V61	Carbon Tetrachloride	08/13/2002	11.0000	11.0000	U	
003045	V43	Carbon Tetrachloride	08/13/2002	10.0000	10.0000	U	
003035	V52	Carbon Tetrachloride	08/13/2002	10.0000	10.0000	U	
003032	V53	Carbon Tetrachloride	08/13/2002	10.0000	10.0000	U	
003044	V62	Carbon Tetrachloride	08/13/2002	10.0000	10.0000	U	
003034	V52	Carbon Tetrachloride	08/13/2002	9.0000	9.0000	U	
003036	V45	Chlorobenzene	08/13/2002	12.0000	12.0000	U	
003037	V44	Chlorobenzene	08/13/2002	11.0000	11.0000	U	
003046	V54	Chlorobenzene	08/13/2002	11.0000	11.0000	U	
003033	V55	Chlorobenzene	08/13/2002	11.0000	11.0000	U	
003042	V60	Chlorobenzene	08/13/2002	11.0000	11.0000	U	
003031	V61	Chlorobenzene	08/13/2002	11.0000	11.0000	U	
003035	V52	Chlorobenzene	08/13/2002	10.0000	10.0000	U	
003032	V53	Chlorobenzene	08/13/2002	10.0000	10.0000	U	
003044	V62	Chlorobenzene	08/13/2002	10.0000	10.0000	U	
003034	V52	Chlorobenzene	08/13/2002	9.0000	9.0000	U	
003045	V43	Chlorobenzene	08/13/2002	8.0000		J	
003036	V45	Chloroethane	08/13/2002	12.0000	12.0000	U	
003037	V44	Chloroethane	08/13/2002	11.0000	11.0000	U	
003046	V54	Chloroethane	08/13/2002	11.0000	11.0000	U	
003033	V55	Chloroethane	08/13/2002	11.0000	11.0000	U	
003042	V60	Chloroethane	08/13/2002	11.0000	11.0000	U	
003031	V61	Chloroethane	08/13/2002	11.0000	11.0000	U	
003045	V43	Chloroethane	08/13/2002	10.0000	10.0000	U	
003035	V52	Chloroethane	08/13/2002	10.0000	10.0000	U	
003032	V53	Chloroethane	08/13/2002	10.0000	10.0000	U	
003044	V62	Chloroethane	08/13/2002	10.0000	10.0000	U	
003034	V52	Chloroethane	08/13/2002	9.0000	9.0000	U	
003045	V43	Chloroform (Trichloromethane)	08/13/2002	56.0000			
003036	V45	Chloroform (Trichloromethane)	08/13/2002	12.0000	12.0000	U	
003037	V44	Chloroform (Trichloromethane)	08/13/2002	11.0000	11.0000	U	
003046	V54	Chloroform (Trichloromethane)	08/13/2002	11.0000	11.0000	U	
003033	V55	Chloroform (Trichloromethane)	08/13/2002	11.0000	11.0000	U	
003042	V60	Chloroform (Trichloromethane)	08/13/2002	11.0000	11.0000	U	
003031	V61	Chloroform (Trichloromethane)	08/13/2002	11.0000	11.0000	U	
003035	V52	Chloroform (Trichloromethane)	08/13/2002	10.0000	10.0000	U	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003032	V53	Chloroform (Trichloromethane)	08/13/2002	10.0000	10.0000	U	
003044	V62	Chloroform (Trichloromethane)	08/13/2002	10.0000	10.0000	U	
003034	V52	Chloroform (Trichloromethane)	08/13/2002	9.0000	9.0000	U	
003036	V45	Chloromethane	08/13/2002	12.0000	12.0000	U	
003037	V44	Chloromethane	08/13/2002	11.0000	11.0000	U	
003046	V54	Chloromethane	08/13/2002	11.0000	11.0000	U	
003033	V55	Chloromethane	08/13/2002	11.0000	11.0000	U	
003042	V60	Chloromethane	08/13/2002	11.0000	11.0000	U	
003031	V61	Chloromethane	08/13/2002	11.0000	11.0000	U	
003045	V43	Chloromethane	08/13/2002	10.0000	10.0000	U	
003035	V52	Chloromethane	08/13/2002	10.0000	10.0000	U	
003032	V53	Chloromethane	08/13/2002	10.0000	10.0000	U	
003044	V62	Chloromethane	08/13/2002	10.0000	10.0000	U	
003034	V52	Chloromethane	08/13/2002	9.0000	9.0000	U	
003036	V45	Dibromochloromethane	08/13/2002	12.0000	12.0000	U	
003037	V44	Dibromochloromethane	08/13/2002	11.0000	11.0000	U	
003046	V54	Dibromochloromethane	08/13/2002	11.0000	11.0000	U	
003033	V55	Dibromochloromethane	08/13/2002	11.0000	11.0000	U	
003042	V60	Dibromochloromethane	08/13/2002	11.0000	11.0000	U	
003031	V61	Dibromochloromethane	08/13/2002	11.0000	11.0000	U	
003045	V43	Dibromochloromethane	08/13/2002	10.0000	10.0000	U	
003035	V52	Dibromochloromethane	08/13/2002	10.0000	10.0000	U	
003032	V53	Dibromochloromethane	08/13/2002	10.0000	10.0000	U	
003044	V62	Dibromochloromethane	08/13/2002	10.0000	10.0000	U	
003034	V52	Dibromochloromethane	08/13/2002	9.0000	9.0000	U	
003037	V44	Dichloromethane (Methylene Ch	08/13/2002	15.0000		B	
003036	V45	Dichloromethane (Methylene Ch	08/13/2002	15.0000		B	
003046	V54	Dichloromethane (Methylene Ch	08/13/2002	14.0000		B	
003045	V43	Dichloromethane (Methylene Ch	08/13/2002	13.0000		B	
003032	V53	Dichloromethane (Methylene Ch	08/13/2002	13.0000		B	
003033	V55	Dichloromethane (Methylene Ch	08/13/2002	13.0000		B	
003042	V60	Dichloromethane (Methylene Ch	08/13/2002	13.0000		B	
003031	V61	Dichloromethane (Methylene Ch	08/13/2002	13.0000		B	
003035	V52	Dichloromethane (Methylene Ch	08/13/2002	12.0000		B	
003044	V62	Dichloromethane (Methylene Ch	08/13/2002	12.0000		B	
003034	V52	Dichloromethane (Methylene Ch	08/13/2002	10.0000		B	UJ
003036	V45	Ethylbenzene	08/13/2002	12.0000	12.0000	U	
003037	V44	Ethylbenzene	08/13/2002	11.0000	11.0000	U	
003046	V54	Ethylbenzene	08/13/2002	11.0000	11.0000	U	
003033	V55	Ethylbenzene	08/13/2002	11.0000	11.0000	U	
003042	V60	Ethylbenzene	08/13/2002	11.0000	11.0000	U	
003031	V61	Ethylbenzene	08/13/2002	11.0000	11.0000	U	
003035	V52	Ethylbenzene	08/13/2002	10.0000	10.0000	U	
003032	V53	Ethylbenzene	08/13/2002	10.0000	10.0000	U	
003044	V62	Ethylbenzene	08/13/2002	10.0000	10.0000	U	
003034	V52	Ethylbenzene	08/13/2002	9.0000	9.0000	U	
003045	V43	Ethylbenzene	08/13/2002	4.0000		J	
003036	V45	Styrene	08/13/2002	12.0000	12.0000	U	
003037	V44	Styrene	08/13/2002	11.0000	11.0000	U	
003046	V54	Styrene	08/13/2002	11.0000	11.0000	U	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003033	V55	Styrene	08/13/2002	11.0000	11.0000	U	
003042	V60	Styrene	08/13/2002	11.0000	11.0000	U	
003031	V61	Styrene	08/13/2002	11.0000	11.0000	U	
003045	V43	Styrene	08/13/2002	10.0000	10.0000	U	
003035	V52	Styrene	08/13/2002	10.0000	10.0000	U	
003032	V53	Styrene	08/13/2002	10.0000	10.0000	U	
003044	V62	Styrene	08/13/2002	10.0000	10.0000	U	
003034	V52	Styrene	08/13/2002	9.0000	9.0000	U	
003036	V45	Tetrachloroethene	08/13/2002	12.0000	12.0000	U	
003037	V44	Tetrachloroethene	08/13/2002	11.0000	11.0000	U	
003046	V54	Tetrachloroethene	08/13/2002	11.0000	11.0000	U	
003033	V55	Tetrachloroethene	08/13/2002	11.0000	11.0000	U	
003042	V60	Tetrachloroethene	08/13/2002	11.0000	11.0000	U	
003031	V61	Tetrachloroethene	08/13/2002	11.0000	11.0000	U	
003045	V43	Tetrachloroethene	08/13/2002	10.0000	10.0000	U	
003035	V52	Tetrachloroethene	08/13/2002	10.0000	10.0000	U	
003032	V53	Tetrachloroethene	08/13/2002	10.0000	10.0000	U	
003044	V62	Tetrachloroethene	08/13/2002	10.0000	10.0000	U	
003034	V52	Tetrachloroethene	08/13/2002	9.0000	9.0000	U	
003036	V45	Toluene	08/13/2002	12.0000	12.0000	U	
003037	V44	Toluene	08/13/2002	11.0000	11.0000	U	
003046	V54	Toluene	08/13/2002	11.0000	11.0000	U	
003033	V55	Toluene	08/13/2002	11.0000	11.0000	U	
003042	V60	Toluene	08/13/2002	11.0000	11.0000	U	
003031	V61	Toluene	08/13/2002	11.0000	11.0000	U	
003045	V43	Toluene	08/13/2002	10.0000	10.0000	U	
003035	V52	Toluene	08/13/2002	10.0000	10.0000	U	
003032	V53	Toluene	08/13/2002	10.0000	10.0000	U	
003044	V62	Toluene	08/13/2002	10.0000	10.0000	U	
003034	V52	Toluene	08/13/2002	9.0000	9.0000	U	
003036	V45	Trichloroethylene (TCE)	08/13/2002	12.0000	12.0000	U	
003037	V44	Trichloroethylene (TCE)	08/13/2002	11.0000	11.0000	U	
003046	V54	Trichloroethylene (TCE)	08/13/2002	11.0000	11.0000	U	
003033	V55	Trichloroethylene (TCE)	08/13/2002	11.0000	11.0000	U	
003042	V60	Trichloroethylene (TCE)	08/13/2002	11.0000	11.0000	U	
003031	V61	Trichloroethylene (TCE)	08/13/2002	11.0000	11.0000	U	
003045	V43	Trichloroethylene (TCE)	08/13/2002	10.0000	10.0000	U	
003035	V52	Trichloroethylene (TCE)	08/13/2002	10.0000	10.0000	U	
003032	V53	Trichloroethylene (TCE)	08/13/2002	10.0000	10.0000	U	
003044	V62	Trichloroethylene (TCE)	08/13/2002	10.0000	10.0000	U	
003034	V52	Trichloroethylene (TCE)	08/13/2002	9.0000	9.0000	U	
003036	V45	Vinyl Chloride	08/13/2002	12.0000	12.0000	U	
003037	V44	Vinyl Chloride	08/13/2002	11.0000	11.0000	U	
003046	V54	Vinyl Chloride	08/13/2002	11.0000	11.0000	U	
003033	V55	Vinyl Chloride	08/13/2002	11.0000	11.0000	U	
003042	V60	Vinyl Chloride	08/13/2002	11.0000	11.0000	U	
003031	V61	Vinyl Chloride	08/13/2002	11.0000	11.0000	U	
003045	V43	Vinyl Chloride	08/13/2002	10.0000	10.0000	U	
003035	V52	Vinyl Chloride	08/13/2002	10.0000	10.0000	U	
003032	V53	Vinyl Chloride	08/13/2002	10.0000	10.0000	U	

Table 5: PRS 266 Verification Offsite VOC Results (ug/kg)

MEIMS ID	Location	Analyte	Date Collected	Result	MDA	LQ	DQ
003044	V62	Vinyl Chloride	08/13/2002	10.0000	10.0000	U	
003034	V52	Vinyl Chloride	08/13/2002	9.0000	9.0000	U	
003036	V45	Xylenes, Total	08/13/2002	12.0000	12.0000	U	
003037	V44	Xylenes, Total	08/13/2002	11.0000	11.0000	U	
003046	V54	Xylenes, Total	08/13/2002	11.0000	11.0000	U	
003033	V55	Xylenes, Total	08/13/2002	11.0000	11.0000	U	
003042	V60	Xylenes, Total	08/13/2002	11.0000	11.0000	U	
003031	V61	Xylenes, Total	08/13/2002	11.0000	11.0000	U	
003035	V52	Xylenes, Total	08/13/2002	10.0000	10.0000	U	
003032	V53	Xylenes, Total	08/13/2002	10.0000	10.0000	U	
003044	V62	Xylenes, Total	08/13/2002	10.0000	10.0000	U	
003045	V43	Xylenes, Total	08/13/2002	9.0000		J	
003034	V52	Xylenes, Total	08/13/2002	9.0000	9.0000	U	

B: analyte detected in blank
J: estimated value
MDA: minimum detectable amount
LQ: lab qualifier
DQ: data qualifier
U: not detected above MDA

Table 6: PRS 412 Verification Offsite Rad Results (pCi/g)

(confirmation and verification)

COs (pCi/g) are: Th-228 @ 2.6, Th-230 @2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Results	MDA	LQ	DQ
412-S010	O412_10	Thorium-228	5/16/02	1.8800	0.1700		
412-S09	O412_9	Thorium-228	5/16/02	1.5500	0.1100		
003124	HS5	Thorium-228	11/21/02	1.3000	0.0042		
412-S05	O412_5	Thorium-228	5/16/02	1.2300	0.1100		
412-HS02	HS2	Thorium-228	9/17/02	1.2200	0.1900		
412-S011	O412_8	Thorium-228	5/16/02	1.0800	0.1400		
412-S08	O412_8	Thorium-228	5/16/02	1.0500	0.1100		
412-HS01	HS1	Thorium-228	9/17/02	0.9700	0.2100	J	
412-S04	O412_4	Thorium-228	5/16/02	0.9500	0.0900	J	
412-S07	O412_7	Thorium-228	5/16/02	0.9200	0.1400	J	
412-S06	O412_6	Thorium-228	5/16/02	0.9200	0.1400	J	
412-S03	O412_3	Thorium-228	5/16/02	0.6800	0.0900	J	
412-S02	O412_2	Thorium-228	5/16/02	0.5700	0.1400	J	
003123	HS4	Thorium-228	11/21/02	0.5090	0.0097		
412-S01	O412_1	Thorium-228	5/16/02	0.2700			
003125	HS3	Thorium-228	12/16/02	0.0372	0.0138	J	
003125DU	HS3	Thorium-228	12/16/02	0.0234	0.0091	J	
412-S010	O412_10	Thorium-230	5/16/02	2.1800	0.0800		
412-S09	O412_9	Thorium-230	5/16/02	2.1100	0.0900		
412-HS02	HS2	Thorium-230	9/17/02	1.8900	0.1200		
412-S04	O412_4	Thorium-230	5/16/02	1.5300	0.0800		
412-S011	O412_8	Thorium-230	5/16/02	1.5100	0.1600		
412-S08	O412_8	Thorium-230	5/16/02	1.4300	0.0800		
412-S05	O412_5	Thorium-230	5/16/02	1.1300	0.0600		
412-S07	O412_7	Thorium-230	5/16/02	1.1300	0.0300		
412-S06	O412_6	Thorium-230	5/16/02	1.0000	0.0500		
412-HS01	HS1	Thorium-230	9/17/02	0.9100	0.1800	J	
412-S02	O412_2	Thorium-230	5/16/02	0.8700	0.0800	J	
412-S03	O412_3	Thorium-230	5/16/02	0.6100	0.0800	J	
412-S01	O412_1	Thorium-230	5/16/02	0.5500	0.1100	J	
003123	HS4	Thorium-230	11/21/02	0.4660	0.0043		
003124	HS5	Thorium-230	11/21/02	0.4240	0.0092		
003125	HS3	Thorium-230	12/16/02	0.2880	0.0124		
003125DU	HS3	Thorium-230	12/16/02	0.2260	0.0090		
412-S010	O412_10	Thorium-232	5/16/02	1.6200	0.0400		
412-S09	O412_9	Thorium-232	5/16/02	1.5400	0.0600		
412-S06	O412_6	Thorium-232	5/16/02	1.1800	0.0300		

Table 6: PRS 412 Verification Offsite Rad Results (pCi/g)

(confirmation and verification)

COs (pCi/g) are: Th-228 @ 2.6, Th-230 @2.8, Th-232 @ 2.1

MEIMS ID	Location	Analyte	Date Collected	Results	MDA	LQ	DQ
003124	HS5	Thorium-232	11/21/02	1.1400	0.0042		
412-S08	O412_8	Thorium-232	5/16/02	1.1300	0.0700		
412-S05	O412_5	Thorium-232	5/16/02	1.1200	0.0700		
412-HS02	HS2	Thorium-232	9/17/02	1.0500	0.0900		
412-S011	O412_8	Thorium-232	5/16/02	1.0300	0.0600		
412-HS01	HS1	Thorium-232	9/17/02	0.9800	0.1000	J	
412-S04	O412_4	Thorium-232	5/16/02	0.9200	0.0700	J	
412-S07	O412_7	Thorium-232	5/16/02	0.9000	0.0600	J	
412-S03	O412_3	Thorium-232	5/16/02	0.8600	0.0500	J	
003123	HS4	Thorium-232	11/21/02	0.7070	0.0096		
412-S02	O412_2	Thorium-232	5/16/02	0.5600	0.0400	J	
412-S01	O412_1	Thorium-232	5/16/02	0.2200	0.1100	J	
003125DU	HS3	Thorium-232	12/16/02	0.1250	0.0040		
003125	HS3	Thorium-232	12/16/02	0.0986	0.0040	J	

DQ: data qualifier
J: estimated value
LQ: lab qualifier
MDA: minimum detectable activity
U: indicates the result was less than or not detected at the MDA

APPENDIX C

WALKOVER SURVEY, PREVERIFICATION RESULTS, & ADDITIONAL AREAS

PRS 266 WALKOVER SURVEY & PREVERIFICATION RESULTS

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM) PRS 266	SURVEY NO. 02-ER-594
PURPOSE: preverification scan and samples for excavated area.	RWP NO. 1125
	DATE: 7-17-02 thru 7-25-02
	TIME: N/A

MAP/DRAWING

NOTE: Fidler is a detection instrument used as an indicator only.

100% walkover survey performed of the excavated area with the Fidler on the out channel. All areas are < background of 8000 to 13,000 cpm unless indicated on attached map.

All pre-verification locations sampled as well as all locations with elevated readings identified during the scan.

Locations identified below were excavated and resampled. The resampled result is identified by a letter "A" on the end of sample location.

excavated locations ⇒ PV 9-1, 11-1, 20-1, 32-1, 33-1, 36-1, 41-1, PV 46, 47-1, 47-2, 48, 56-1, 57, 57-1, 60-1, 64-1, 65-1, 67-1, 68-1, 69-1, 69-2, 69-3, 70, 70-1, 70-2, 70-3, 70-4.

Two samples collected at PV 9-1 after excavation.
Two samples also collected at PV-5.

COPY

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDIER	3829 3430	7-13-03
FIDIER	3847 3848	8-22-02
FIDIER	3645 3660	9-17-02

Completed by: (Signature) Lynn Young	HP# 6210 5350	Date: 8-14-02
Completed by: (Print Name) Tim Holland / Lynn Young		
Counted by: (Signature) N	HP#	Date:
Counted by: (Print Name) 4		
Reviewed/Approved by: (Signature)	HP# 6144	Date: 8/15/02
Reviewed/Approved by: (Print Name) Charles Finkenbine		

ML-9620 (2-98)

ADIOLOGICAL SURVEY DATA SHEET (cont.)

~~Removable Contamination~~ Fidler

~~Swipes (dpm/100cm²)~~ 8/14/92 CPM

Sample #	β/γ	Alpha	Tritium	Comments
PV3-1	15,000			
PV3-2	15,000			
PV9-1	15,000			
PV10-1	15,000			
PV11-1	22,000			
PV16-1	15,000			
PV16-2	15,000			
PV17-1	15,000			
PV17-2	15,000			
PV18-1	15,000			
PV20-1	15,000			
PV32-1	15,000			
PV33-1	17,000			
PV36-1	15,000			
PV41-1	18,000		N	
PV47-1	16,000			
PV47-2	22,000			
PV54-1	15,000			A
PV56-1	26,000			
PV57-1	26,000			
PV60-1	20,000			
PV64-1	50,000			
PV65-1	27,000			
PV67-1	15,000			
PV67-2	15,000			
PV68-1	16,000			
PV69-1	21,000			
PV69-2	27,000			
PV69-3	42,000			
PV70-1	20,000			
PV70-2	45,000			
PV70-3	25,000			
PV70-4	37,000			
PV74-1	13,500			
PV43-1	15,000			

Removable Contamination

Swipes (dpm/100cm²)

Sample #	β/γ	Alpha	Tritium	Comments
PV43-2	14,000	N/A		N/A
		N		
			A	

COPY

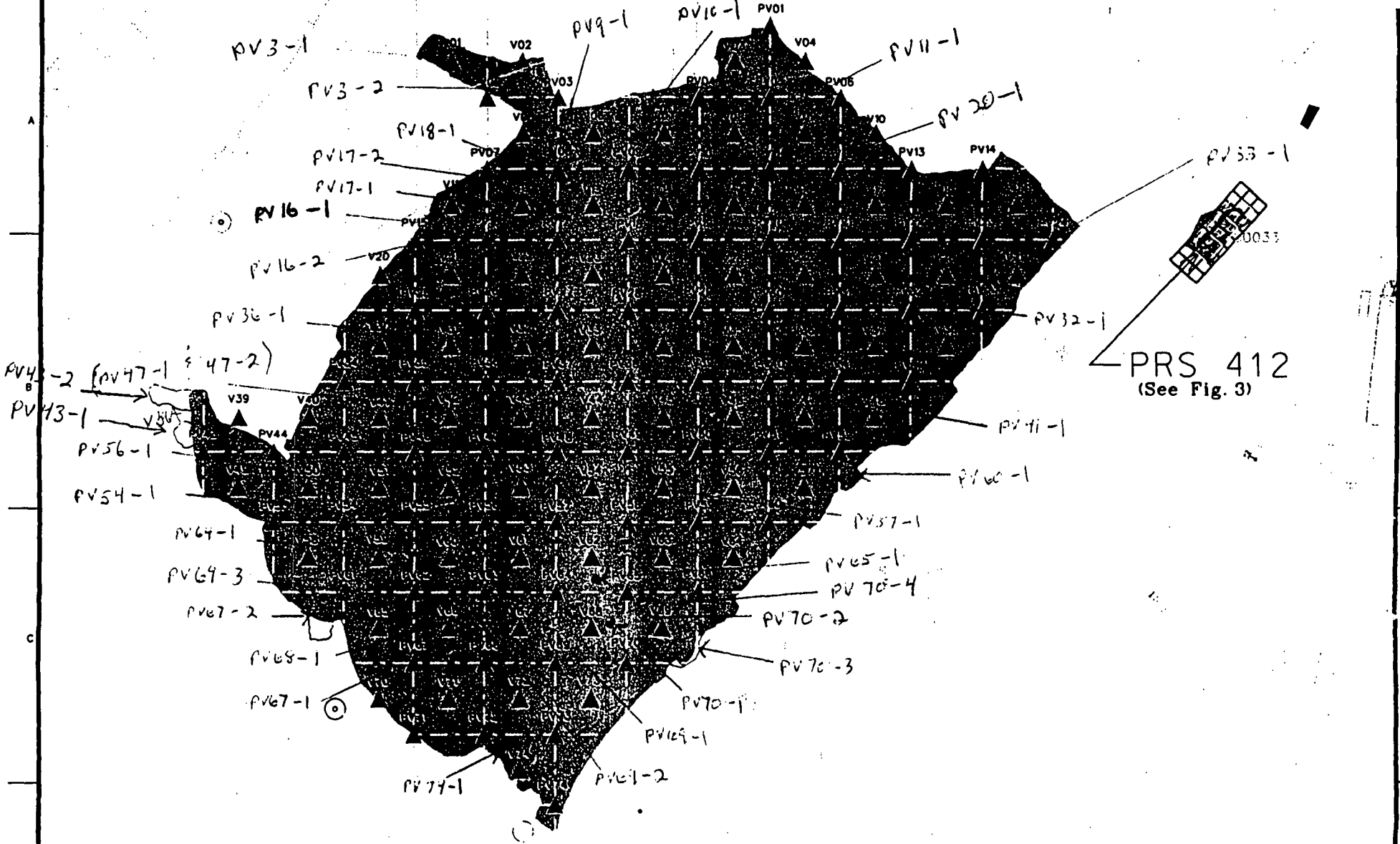
OMMENTS:

OTES:

See MD-80036 10002 for calculations of WB, extremity and skin dose rates.

To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.

Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.



A	03/14/02	ISSUE FOR SAMPLING PLAN	KRW					
ISS	DATE	REVISION	BY	CHKR	ENG	UPDATE	APVD	

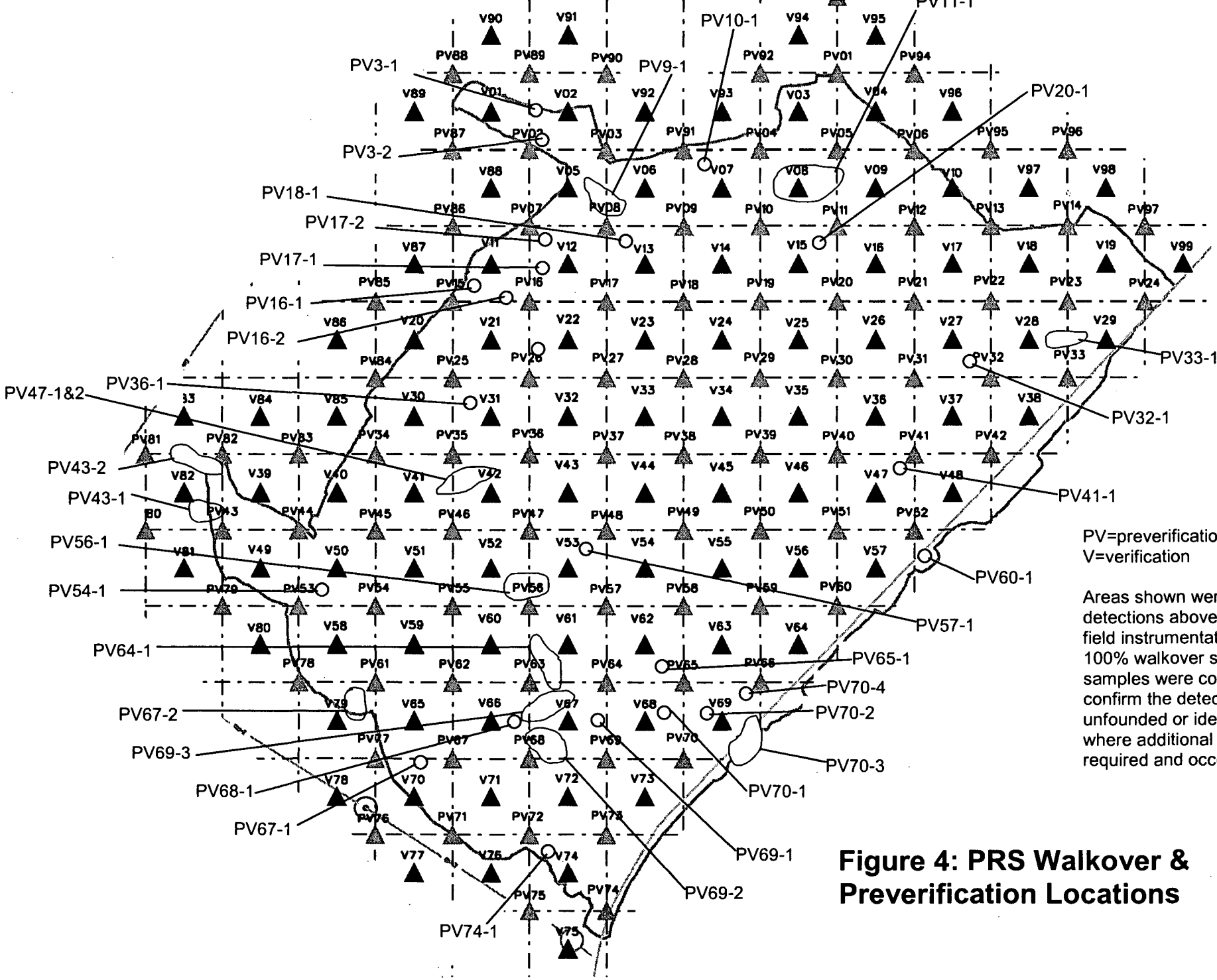
MOUND

Environmental Restoration Geographic Information System

FIGURE 2
PRS 266 VERIFICATION SAMPLE LOCATIONS

SHEET 1 2 3 4 5 6			
ISSUE A			
PART CLASSIFICATION			
GRAPHIC CLASSIFICATION: UNCLASSIFIED	SIZE	DRAWING NAME: verification.grid.dgn	JOB NUMBER
DWG TYPE STE	PRNG ER-GIS	FACITY	SCALE GRAPHIC
STATUS MD-REL-03/14/02	ORIGIN MSTATION / J		

Pg 3 of 142
02-ER-594



PV=preverification
V=verification

Areas shown were identified via detections above background in field instrumentation during the 100% walkover survey. Soil samples were collected to confirm the detections were unfounded or identified areas where additional excavation was required and occurred.

Figure 4: PRS Walkover & Preverification Locations

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14311
File ID: MG500173.s0
Priority: Yes

Description\Location
PRS-266, PV 1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137	*	0.04	0.05	45,000
Pb-210		1.48	1.05	45,000
Ra-226		1.5	0.93	800
Ac-227 (D)	*	0.27	0.48	40
Th-230	*	2.84	9.94	800
Th-232 (D)		1.3	0.19	130
Pu-238	*	11.03	27.55	500
Am-241	*	0.06	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SCK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14296
File ID: MG101722.s0
Priority: Yes

Description\Location
PRS-266, PV 3-2
Recount

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.09	45,000
Cs-137	*	0	0.06	45,000
Pb-210		1.04	0.61	45,000
Ra-226		1.71	0.66	800
Ac-227 (D)	*	0	0.24	40
Th-230	*	1.56	5.46	800
Th-232 (D)		0.89	0.21	130
Pu-238	*	4.55	12.85	500
Am-241	*	0	0.06	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Initial results are in file #MG400392.s0
gwd
These results were previously associated with sample PRS-266, PV 10-1 in error-SEK

Date: 8/12/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14314
File ID: MG101698.s0
Priority: Yes

Description\Location
PRS-266, PV 4

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.1	45,000
Cs-137	*	0	0.07	45,000
Pb-210	*	0.55	0.82	45,000
Ra-226		1.48	0.85	800
Ac-227 (D)	*	0	0.29	40
Th-230	*	0	7.63	800
Th-232 (D)		1.01	0.3	130
Pu-238	*	0	18.89	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14277
File ID: MG300964.s0
Priority: Yes

Description\Location
PRS-266, PV 5

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.05	0.04	45,000
Cs-137	*	0	0.05	45,000
Pb-210	*	1	1.16	45,000
Ra-226		1.94	0.86	800
Ac-227 (D)	*	0.21	0.52	40
Th-230	*	6.58	9.87	800
Th-232 (D)		1.23	0.11	130
Pu-238	*	5.72	21.17	500
Am-241	*	0.06	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14315
File ID: MG500174.s0
Priority: Yes

Description\Location
PRS-266, PV 5

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.57	0.93	45,000
Ra-226		2.06	0.87	800
Ac-227 (D)	*	0	0.29	40
Th-230	*	0.74	8.99	800
Th-232 (D)		1.27	0.14	130
Pu-238	*	0	27.44	500
Am-241	*	0.08	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14278
File ID: MG500172.s0
Priority: Yes

Description\Location
PRS-266, PV 6

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137	*	0.01	0.04	45,000
Pb-210		1.23	0.97	45,000
Ra-226		1.83	0.87	800
Ac-227 (D)	*	0	0.31	40
Th-230	*	0	9.65	800
Th-232 (D)		1.24	0.16	130
Pu-238	*	1.28	25.68	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14316
File ID: MG101700.s0
Priority: Yes

Description\Location
PRS-266, PV 7

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.09	45,000
Cs-137	*	0	0.08	45,000
Pb-210	*	0.66	0.93	45,000
Ra-226		1.96	0.97	800
Ac-227 (D)	*	0.17	0.28	40
Th-230	*	0	8.36	800
Th-232 (D)		1.06	0.3	130
Pu-238	*	0	19.63	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14317
File ID: MG400402.s0
Priority: Yes

Description\Location
PRS-266, PV 8

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137		0.09	0.04	45,000
Pb-210	*	0.27	1.05	45,000
Ra-226		1.62	0.79	800
Ac-227 (D)	*	0	0.47	40
Th-230	*	5.51	8.13	800
Th-232 (D)		1.27	0.11	130
Pu-238	*	3.35	52.93	500
Am-241	*	0.08	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g

$\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14318
File ID: MG500175.s0
Priority: Yes

Description\Location
PRS-266, PV 9

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.04	45,000
Cs-137	*	0.02	0.04	45,000
Pb-210	*	0.47	0.96	45,000
Ra-226		1.44	0.88	800
Ac-227 (D)	*	0	0.32	40
Th-230	*	0	9.51	800
Th-232 (D)		1.05	0.13	130
Pu-238	*	0	28.51	500
Am-241	*	0.04	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14297
File ID: MG500165.s0
Priority: Yes

Description\Location
PRS-266, PV 9-1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.06	45,000
Cs-137		0.21	0.08	45,000
Pb-210	*	0.52	1.56	45,000
Ra-226		2.28	1.44	800
Ac-227 (D)	*	0	0.55	40
Th-230	*	3.86	15.48	800
Th-232 (D)		2.93	0.27	130
Pu-238	*	0	43.35	500
Am-241	*	0	0.17	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g

$\Sigma_{Respirator}$ 0.15

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/18/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14390
File ID: MG101721.s0
Priority: Yes

Description\Location
PRS-266, PV 9-1A
Recount

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.04	0.08	45,000
Cs-137		0.1	0.07	45,000
Pb-210	*	0.92	1.02	45,000
Ra-226		1.83	1.01	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	3.86	8.16	800
Th-232 (D)		1.37	0.16	130
Pu-238	*	0.58	20.86	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Initial results are in file #MG500179.s0
gwd

Date: 8/6/02 Counted By: 6152 Analyzed By: 6152 Initials GWD

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14391
File ID: MG400406.s0
Priority: Yes

Description\Location
PRS-266, PV 9-1-A2

Collector: 7581
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137		0.06	0.04	45,000
Pb-210	*	0.39	1.03	45,000
Ra-226		1.72	0.79	800
Ac-227 (D)	*	0	0.47	40
Th-230	*	2.91	8.28	800
Th-232 (D)		0.93	0.11	130
Pu-238	*	21.87	52.4	500
Am-241	*	0.04	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14279
File ID: F0001021.s0
Priority: Yes

Description\Location
PRS-266, PV 10

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.13	0.87	45,000
Ra-226	*	0.83	0.89	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	0	8.86	800
Th-232 (D)		0.97	0.12	130
Pu-238	*	0	29.43	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14298
File ID: MG101677.s0
Priority: Yes

Description\Location
PRS-266, PV 10-1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.08	45,000
Cs-137	*	0.02	0.09	45,000
Pb-210		1.22	1.02	45,000
Ra-226		1.3	1.05	800
Ac-227 (D)	*	0	0.36	40
Th-230	*	0	8.76	800
Th-232 (D)		1.54	0.22	130
Pu-238	*	0	21.5	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/18/02 Counted By: 6152 Analyzed By: 6152 Initials SBK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14280
File ID: F0001022.s0
Priority: Yes

Description\Location
PRS-266, PV 11

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.03	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.66	1	45,000
Ra-226		1.28	1.02	800
Ac-227 (D)	*	0	0.45	40
Th-230	*	4.62	9.44	800
Th-232 (D)		0.96	0.15	130
Pu-238	*	18.89	30.14	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14299
File ID: MG101678.s0
Priority: Yes

Description\Location
PRS-266, PV 11-1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.19	45,000
Cs-137		0.27	0.19	45,000
Pb-210	*	0.99	2.42	45,000
Ra-226		3.83	2.52	800
Ac-227 (D)	*	0	1.01	40
Th-230	*	0	23.29	800
Th-232 (D)		7.94	0.55	130
Pu-238	*	0	54.68	500
Am-241	*	0.01	0.24	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.09 nCi/g $\Sigma_{Respirator}$ 0.23

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/18/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14372
File ID: MG101708.s0
Priority: Yes

Description\Location
PRS-266, PV 11-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.1	45,000
Cs-137	*	0	0.07	45,000
Pb-210		1.36	0.86	45,000
Ra-226		2.02	0.87	800
Ac-227 (D)	*	0	0.33	40
Th-230	*	2.3	7.62	800
Th-232 (D)		1.09	0.26	130
Pu-238	*	0	19.06	500
Am-241	*	0.05	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14259
File ID: MG300958.s0
Priority: Yes

Description\Location
PRS-266, PV 12

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.06	45,000
Cs-137	*	0.02	0.05	45,000
Pb-210	*	0.28	1.2	45,000
Ra-226		1.54	0.91	800
Ac-227 (D)	*	0	0.53	40
Th-230	*	2.53	9.63	800
Th-232 (D)		1.34	0.16	130
Pu-238	*	0	23.32	500
Am-241	*	0.06	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/18/02 Counted By: 6152 Analyzed By: 6152 Initials BSN

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14260
File ID: MG500164.s0
Priority: Yes

Description\Location
PRS-266, PV 13

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.04	45,000
Pb-210		1.08	0.92	45,000
Ra-226		1.72	0.85	800
Ac-227 (D)	*	0	0.3	40
Th-230	*	0	9.22	800
Th-232 (D)		0.89	0.15	130
Pu-238	*	0	26.85	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14331
File ID: MG101703.s0
Priority: Yes

Description\Location
PRS-266, PV 14

Collector: 6144
Date Received: 7/18/02
Date Collected: 7/18/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.1	45,000
Cs-137		0.12	0.06	45,000
Pb-210		0.93	0.85	45,000
Ra-226		1.91	1.01	800
Ac-227 (D)	*	0	0.33	40
Th-230	*	0	8.14	800
Th-232 (D)		1.02	0.28	130
Pu-238	*	7.39	18.19	500
Am-241	*	0.05	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14319
File ID: MG101701.s0
Priority: Yes

Description\Location
PRS-266, PV 15

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.11	45,000
Cs-137	*	0.01	0.08	45,000
Pb-210		1.89	1.03	45,000
Ra-226		1.68	1.22	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	5.36	9.58	800
Th-232 (D)		1.53	0.28	130
Pu-238	*	0	23.18	500
Am-241	*	0	0.12	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14320
File ID: MG101702.s0
Priority: Yes

Description\Location
PRS-266, PV 16

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.14	45,000
Cs-137	*	0.06	0.07	45,000
Pb-210		1.45	0.98	45,000
Ra-226		1.82	1.16	800
Ac-227 (D)	*	0.17	0.38	40
Th-230	*	1.93	9.81	800
Th-232 (D)		1.86	0.33	130
Pu-238	*	0	25.12	500
Am-241	*	0.08	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14300
File ID: MG101720.s0
Priority: Yes

Description\Location
PRS-266, PV 16-1

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.16	45,000
Cs-137	*	0.02	0.09	45,000
Pb-210	*	0.38	1.23	45,000
Ra-226		2.35	1.18	800
Ac-227 (D)	*	0.11	0.37	40
Th-230	*	1.92	9.45	800
Th-232 (D)		1.39	0.29	130
Pu-238	*	0	24.22	500
Am-241	*	0.02	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG101720.s0.

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials 8B

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14301
File ID: MG500189.s0
Priority: Yes

Description\Location
PRS-266, PV 16-2

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137	*	0.01	0.02	45,000
Pb-210	*	0.25	0.5	45,000
Ra-226		1.1	0.47	800
Ac-227 (D)	*	0	0.15	40
Th-230	*	0	4.51	800
Th-232 (D)		0.95	0.08	130
Pu-238	*	0	12.89	500
Am-241	*	0	0.05	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.04

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file # MG400393.s0.

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14321
File ID: MG300966.s0
Priority: Yes

Description\Location
PRS-266, PV 17

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137	*	0	0.05	45,000
Pb-210	*	0.31	0.99	45,000
Ra-226		1.54	0.78	800
Ac-227 (D)	*	0	0.46	40
Th-230	*	6.21	8.13	800
Th-232 (D)		1.21	0.14	130
Pu-238	*	0.08	19.21	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14302
File ID: MG101679.s0
Priority: Yes

Description\Location
PRS-266, PV 17-1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.15	45,000
Cs-137	*	0.01	0.09	45,000
Pb-210		1.14	1.04	45,000
Ra-226	*	0.79	1.35	800
Ac-227 (D)	*	0.18	0.37	40
Th-230	*	6.06	9.88	800
Th-232 (D)		1.04	0.36	130
Pu-238	*	16	20.66	500
Am-241	*	0.04	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/18/02 Counted By: 6152 Analyzed By: 6152 Initials SKB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14303
File ID: MG500166.s0
Priority: Yes

Description\Location
PRS-266, PV 17-2

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.04	0.04	45,000
Cs-137	*	0	0.04	45,000
Pb-210		1.6	0.9	45,000
Ra-226		2.3	0.8	800
Ac-227 (D)	*	0	0.3	40
Th-230	*	1.86	8.73	800
Th-232 (D)		1.03	0.13	130
Pu-238	*	14.19	21.73	500
Am-241	*	0.02	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/18/02 Counted By: 6152 Analyzed By: 6152 Initials SRK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14281
File ID: F0001023.s0
Priority: Yes

Description\Location
PRS-266, PV 18

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0.51	0.77	45,000
Ra-226		1.84	0.78	800
Ac-227 (D)	*	0.18	0.37	40
Th-230	*	6.5	7.55	800
Th-232 (D)		0.88	0.11	130
Pu-238	*	10.07	24.07	500
Am-241	*	0.01	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14304
File ID: MG101680.s0
Priority: Yes

Description\Location
PRS-266
PV 18-1

Collector:
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.11	45,000
Cs-137	*	0.08	0.09	45,000
Pb-210	*	0.96	1.06	45,000
Ra-226		2.11	1.11	800
Ac-227 (D)	*	0.05	0.38	40
Th-230	*	0	9.99	800
Th-232 (D)		1.28	0.42	130
Pu-238	*	7.64	19.75	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: KAM

Date: 7/19/02 Counted By: 6152 Analyzed By: 5801 Initials KAM

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14282
File ID: F0001024.s0
Priority: Yes

Description\Location
PRS-266, PV 19

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.04	0.03	45,000
Cs-137		0.06	0.03	45,000
Pb-210		1.28	0.86	45,000
Ra-226		1.6	0.95	800
Ac-227 (D)	*	0.21	0.42	40
Th-230	*	4.69	9.27	800
Th-232 (D)		1.26	0.13	130
Pu-238	*	0	32.48	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14261
File ID: MG101675.s0
Priority: Yes

Description\Location
PRS-266, PV 20

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.13	45,000
Cs-137	*	0	0.08	45,000
Pb-210	*	0.17	1.11	45,000
Ra-226		1.93	0.94	800
Ac-227 (D)	*	0	0.38	40
Th-230	*	0.58	8.74	800
Th-232 (D)		1.19	0.33	130
Pu-238	*	1.46	22.41	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14248
File ID: MG300954.s0
Priority: Yes

Description\Location
PRS-266, PV 20-1

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.06	45,000
Cs-137		0.14	0.06	45,000
Pb-210	*	0.39	1.48	45,000
Ra-226		1.67	1.21	800
Ac-227 (D)	*	0	0.66	40
Th-230	*	12.5	13.22	800
Th-232 (D)		3.36	0.19	130
Pu-238	*	11.94	27.67	500
Am-241		0.15	0.14	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.12

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/17/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14373
File ID: MG300967.s0
Priority: Yes

Description\Location
PRS-266, PV 20-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.05	45,000
Cs-137	*	0.02	0.05	45,000
Pb-210		1.15	1.05	45,000
Ra-226		1.1	0.9	800
Ac-227 (D)	*	0.37	0.48	40
Th-230	*	2.29	9.65	800
Th-232 (D)		1.25	0.11	130
Pu-238	*	0	28.06	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14262
File ID: MG101699.s0
Priority: Yes

Description\Location
PRS-266, PV~~22~~ 21
CD 8/14/02

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.08	45,000
Cs-137	*	0.01	0.05	45,000
Pb-210		0.97	0.73	45,000
Ra-226		2.34	0.77	800
Ac-227 (D)	*	0.14	0.25	40
Th-230	*	0	6.99	800
Th-232 (D)		1.74	0.23	130
Pu-238	*	4.58	16.41	500
Am-241	*	0.05	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.
This is a recount result, initial results are contained in file # F0001009.s0.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14332
File ID: MG400403.s0
Priority: Yes

Description\Location
PRS-266, PV 22

Collector: 6210
Date Received: 7/18/02
Date Collected: 7/18/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210		1.04	0.84	45,000
Ra-226		2.03	0.68	800
Ac-227 (D)	*	0	0.38	40
Th-230	*	1.71	6.96	800
Th-232 (D)		1.05	0.11	130
Pu-238	*	0	43.79	500
Am-241	*	0.02	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.06 nCi/g $\Sigma_{Respirator}$ 0.12

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14333
File ID: MG500177.s0
Priority: Yes

Description\Location
PRS-266, PV 23

Collector: 6210
Date Received: 7/18/02
Date Collected: 7/18/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.05	0.03	45,000
Pb-210		1.04	0.7	45,000
Ra-226		1.87	0.66	800
Ac-227 (D)	*	0	0.22	40
Th-230	*	5.26	6.62	800
Th-232 (D)		1.08	0.12	130
Pu-238	*	5.34	18.81	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14322
File ID: MG500176.s0
Priority: Yes

Description\Location
PRS-266, PV 25

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137	*	0.01	0.04	45,000
Pb-210	*	0.65	1.04	45,000
Ra-226		1.99	0.88	800
Ac-227 (D)	*	0	0.31	40
Th-230	*	2.52	9.57	800
Th-232 (D)		0.98	0.16	130
Pu-238	*	3.15	25.92	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

Instrument type: High Purity Germanium

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14323
File ID: F0001031.s0
Priority: Yes

Description\Location
PRS-266, PV 26

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137		0.05	0.04	45,000
Pb-210	*	0.39	0.9	45,000
Ra-226		1.95	0.86	800
Ac-227 (D)	*	0	0.43	40
Th-230	*	3.51	8.67	800
Th-232 (D)		0.87	0.14	130
Pu-238	*	5.86	25.16	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14283
File ID: F0001025.s0
Priority: Yes

Description\Location
PRS-266, PV 27

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0.14	0.83	45,000
Ra-226	*	0.72	0.84	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	0	8.08	800
Th-232 (D)		0.71	0.09	130
Pu-238	*	0	28.38	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14284
File ID: F0001026.s0
Priority: Yes

Description\Location
PRS-266, PV 28

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.05	0.81	45,000
Ra-226	*	0.76	0.84	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	1.18	8.03	800
Th-232 (D)		0.78	0.1	130
Pu-238	*	0	26.14	500
Am-241	*	0.03	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14263
File ID: F0001010.s0
Priority: Yes

Description\Location
PRS-266, PV 29

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.68	0.87	45,000
Ra-226		0.94	0.94	800
Ac-227 (D)	*	0.03	0.41	40
Th-230	*	0	9	800
Th-232 (D)		1.09	0.11	130
Pu-238	*	0	28.52	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14264
File ID: F0001012.s0
Priority: Yes

Description\Location
PRS-266, PV 30

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0	0.95	45,000
Ra-226		1.1	0.95	800
Ac-227 (D)	*	0.02	0.43	40
Th-230	*	0	9.24	800
Th-232 (D)		1.04	0.12	130
Pu-238	*	0	28.94	500
Am-241	*	0.01	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14224
File ID: MG101661.s0
Priority: Yes

Description\Location
PRS-266, PV 31

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.12	45,000
Cs-137	*	0	0.09	45,000
Pb-210		0.96	0.83	45,000
Ra-226	*	0.79	1.11	800
Ac-227 (D)	*	0	0.37	40
Th-230	*	0	8.52	800
Th-232 (D)		0.65	0.26	130
Pu-238	*	0	25.52	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA..MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14225
File ID: MG101662.s0
Priority: Yes

Description\Location
PRS-266, PV 32

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.14	45,000
Cs-137	*	0	0.12	45,000
Pb-210	*	0	1.33	45,000
Ra-226		2.51	0.98	800
Ac-227 (D)	*	0	0.37	40
Th-230	*	0.8	9.77	800
Th-232 (D)		0.72	0.43	130
Pu-238	*	0	25.18	500
Am-241	*	0.02	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Could not determine potential U-235 contribution in the Ra-226 energy range due to elevated U-238 MDAs.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14222
File ID: MG101660.s0
Priority: Yes

Description\Location
PRS-266, PV 32-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.07	0.1	45,000
Cs-137	*	0.07	0.09	45,000
Pb-210		2.03	1.53	45,000
Ra-226		4.02	1.32	800
Ac-227 (D)	*	0	0.66	40
Th-230	*	0	14.34	800
Th-232 (D)		2.51	0.23	130
Pu-238	*	0	36.43	500
Am-241	*	0.04	0.14	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.06 nCi/g $\Sigma_{Respirator}$ 0.13

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14330
File ID: MG101689.s0
Priority: Yes

Description\Location
PRS-266, PV 33-1

Collector: 6210
Date Received: 7/18/02
Date Collected: 7/18/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.06	0.12	45,000
Cs-137	*	0.06	0.11	45,000
Pb-210		2.18	1.19	45,000
Ra-226		2.51	1.37	800
Ac-227 (D)	*	0.38	0.43	40
Th-230	*	0	13.22	800
Th-232 (D)		5.04	0.25	130
Pu-238	*	9.59	25.61	500
Am-241	*	0.04	0.14	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.12

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~02 SEK Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14375
File ID: MG500178.s0
Priority: Yes

Description\Location
PRS-266, PV 33-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.7	0.8	45,000
Ra-226	*	0.71	0.77	800
Ac-227 (D)	*	0.08	0.22	40
Th-230	*	2.6	7.61	800
Th-232 (D)		0.71	0.16	130
Pu-238	*	0	23.96	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14324
File ID: MG300975.s0
Priority: Yes

Description\Location
PRS-266, PV 34
Recount

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.03	45,000
Pb-210		0.88	0.8	45,000
Ra-226		2.81	0.61	800
Ac-227 (D)	*	0	0.37	40
Th-230	*	5.23	6.79	800
Th-232 (D)		1.35	0.12	130
Pu-238		25.92	15.22	500
Am-241		0.09	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Initial results are in file #F0001032.s0
gwd

Date: 8/6/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14325
File ID: MG500187.s0
Priority: Yes

Description\Location
PRS-266, PV 35
Recount

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.02	45,000
Cs-137	*	0.01	0.02	45,000
Pb-210		0.65	0.52	45,000
Ra-226		1.93	0.51	800
Ac-227 (D)	*	0.09	0.24	40
Th-230	*	0	5.07	800
Th-232 (D)		1.41	0.08	130
Pu-238	*	0	14.33	500
Am-241	*	0	0.05	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Initial results are in file #F0001033.s0
gwd

Date: 8/6/02 Counted By: 6152 Analyzed By: 6152 Initials Gwd

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14285
File ID: F0001027.s0
Priority: Yes

Description\Location
PRS-266, PV 36

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.36	84	45,000
Ra-226		1.09	0.85	800
Ac-227 (D)	*	0	0.4	40
Th-230	*	0.67	8.05	800
Th-232 (D)		0.81	0.12	130
Pu-238	*	0	27.16	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.12 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials GWD

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14305
File ID: MG101686.s0
Priority: Yes

Description\Location
PRS-266
PV-36-1

Collector:
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.14	45,000
Cs-137	*	0	0.13	45,000
Pb-210	*	0.82	1.43	45,000
Ra-226		1.99	1.53	800
Ac-227 (D)	*	0.29	0.46	40
Th-230	*	0	13.79	800
Th-232 (D)		2.44	0.42	130
Pu-238	*	0	33.16	500
Am-241	*	0	0.14	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g

$\Sigma_{Respirator}$ 0.12

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: KAM

Date: 7/19/02 Counted By: 6152 Analyzed By: 5801 Initials KAM

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14392
File ID: MG101712.s0
Priority: Yes

Description\Location
PRS-266, PV 36-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.09	45,000
Cs-137	*	0	0.09	45,000
Pb-210		1.31	0.8	45,000
Ra-226		1.67	0.87	800
Ac-227 (D)	*	0	0.34	40
Th-230	*	0	9.15	800
Th-232 (D)		1.02	0.26	130
Pu-238	*	8.64	18.16	500
Am-241	*	0.05	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14286
File ID: F0001028.s0
Priority: Yes

Description\Location
PRS-266, PV 37

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.03	0.03	45,000
Pb-210	*	0	0.85	45,000
Ra-226		1.05	0.82	800
Ac-227 (D)	*	0	0.4	40
Th-230	*	4.74	7.77	800
Th-232 (D)		0.83	0.12	130
Pu-238	*	0	26.16	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14265
File ID: F0001013.s0
Priority: Yes

Description\Location
PRS-266, PV 38

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.78	0.9	45,000
Ra-226		1.53	0.87	800
Ac-227 (D)	*	0.21	0.43	40
Th-230	*	5.51	9.32	800
Th-232 (D)		1.3	0.12	130
Pu-238	*	0	32.31	500
Am-241	*	0.04	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14266
File ID: F0001014.s0
Priority: Yes

Description\Location
PRS-266, PV 39

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0	0.99	45,000
Ra-226		1.8	0.91	800
Ac-227 (D)	*	0	0.46	40
Th-230	*	4.26	8.76	800
Th-232 (D)		0.88	0.14	130
Pu-238	*	13.79	25.58	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14226
File ID: F0001055.s0
Priority: Yes

Description\Location
PRS-266, PV 40

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.02	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210		0.95	0.67	45,000
Ra-226		1.21	0.72	800
Ac-227 (D)	*	0.13	0.31	40
Th-230	*	1.08	6.79	800
Th-232 (D)		0.98	0.09	130
Pu-238	*	0	22.47	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG101663.s0.

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14227
File ID: MG500156.s0
Priority: Yes

Description\Location
PRS-266, PV 41

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.07	45,000
Cs-137		0.04	0.04	45,000
Pb-210	*	0	1.17	45,000
Ra-226		1.24	1.08	800
Ac-227 (D)	*	0	0.35	40
Th-230	*	0.82	9.93	800
Th-232 (D)		1.05	0.15	130
Pu-238	*	0	29.45	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14221
File ID: MG500152.s0
Priority: Yes

Description\Location
PRS-266, PV 41-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.07	45,000
Cs-137	*	0.02	0.08	45,000
Pb-210	*	0	2.15	45,000
Ra-226		3.06	1.93	800
Ac-227 (D)	*	0	1	40
Th-230	*	7.54	22.04	800
Th-232 (D)		10.06	0.3	130
Pu-238	*	3.41	54.44	500
Am-241	*	0	0.23	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.09 nCi/g $\Sigma_{Respirator}$ 0.24

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SCB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14434
File ID: MG500184.s0
Priority: Yes

Description\Location
PRS-266, PV 41-1A

Collector: 7581
Date Received: 7/31/02
Date Collected: 7/31/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.83	0.91	45,000
Ra-226		1.34	0.79	800
Ac-227 (D)	*	0.01	0.26	40
Th-230	*	6	8	800
Th-232 (D)		1.01	0.16	130
Pu-238	*	2.94	23.35	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 8/6/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14235
File ID: MG101673.s0
Priority: Yes

Description\Location
PRS-266, PV 42

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.11	45,000
Cs-137	*	0	0.08	45,000
Pb-210	*	0.79	0.93	45,000
Ra-226		1.87	0.87	800
Ac-227 (D)	*	0.28	0.29	40
Th-230	*	3.1	8.54	800
Th-232 (D)		0.93	0.3	130
Pu-238	*	7.65	17.99	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SCK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14326
File ID: F0001034.s0
Priority: Yes

Description\Location
PRS-266, PV 43

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.03	0.03	45,000
Pb-210	*	0.13	0.99	45,000
Ra-226		1.5	0.93	800
Ac-227 (D)	*	0	0.43	40
Th-230	*	0	9.33	800
Th-232 (D)		0.89	0.13	130
Pu-238	*	0	31.23	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14306
File ID: MG101687.s0
Priority: Yes

Description\Location
PRS-266, PV 43-1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.1	45,000
Cs-137		0.39	0.06	45,000
Pb-210		2.59	1.22	45,000
Ra-226		2.8	1.2	800
Ac-227 (D)	*	0	0.38	40
Th-230	*	6.65	9.48	800
Th-232 (D)		1.6	0.34	130
Pu-238	*	0	25.26	500
Am-241	*	0.03	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/22/02 Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14307
File ID: MG500170.s0
Priority: Yes

Description\Location
PRS-266, PV 43-2

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.04	45,000
Cs-137		0.06	0.05	45,000
Pb-210	*	1.01	2.64	45,000
Ra-226		3.22	0.98	800
Ac-227 (D)	*	0	0.46	40
Th-230	*	6.01	9.43	800
Th-232 (D)		2.08	0.17	130
Pu-238	*	0	27.66	500
Am-241	*	0.02	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/22/02 Counted By: 5801 Analyzed By: 6152 Initials ΔΣK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14328
File ID: F0001036.s0
Priority: Yes

Description\Location
PRS-266, PV 45

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210	*	0.35	1	45,000
Ra-226		2.06	0.89	800
Ac-227 (D)	*	0.16	0.43	40
Th-230	*	0	9.82	800
Th-232 (D)		0.97	0.13	130
Pu-238	*	0	31.2	500
Am-241	*	0.03	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SPK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14288
File ID: MG101704.s0
Priority: Yes

Description\Location
PRS-266, PV 46

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.09	45,000
Cs-137	*	0	0.1	45,000
Pb-210	*	0.57	1.07	45,000
Ra-226		1.18	1.09	800
Ac-227 (D)	*	0	0.38	40
Th-230	*	0	9.67	800
Th-232 (D)		2.32	0.3	130
Pu-238	*	5.93	20.92	500
Am-241	*	0.07	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.
This is a recount result, initial results are contained in file # F0001030.s0.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14393
File ID: MG300968.s0
Priority: Yes

Description\Location
PRS-266, PV 46-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0	0.98	45,000
Ra-226		1.51	0.71	800
Ac-227 (D)	*	0.05	0.26	40
Th-230	*	0	7.93	800
Th-232 (D)		0.77	0.09	130
Pu-238	*	0	19.59	500
Am-241	*	0.02	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14287
File ID: F0001029.s0
Priority: Yes

Description\Location
PRS-266, PV 47

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137		0.03	0.03	45,000
Pb-210	*	0.3	0.84	45,000
Ra-226		1.43	0.87	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	3.74	8.32	800
Th-232 (D)		0.96	0.11	130
Pu-238	*	0	27.67	500
Am-241	*	0.02	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14308
File ID: MG101693.s0
Priority: Yes

Description\Location
PRS-266, PV 47-1

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.06	0.09	45,000
Cs-137	*	0	0.07	45,000
Pb-210		1.32	0.96	45,000
Ra-226		2.15	1.12	800
Ac-227 (D)	*	0	0.41	40
Th-230	*	0	8.86	800
Th-232 (D)		1.3	0.28	130
Pu-238	*	0	24.79	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/22/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14394
File ID: MG101713.s0
Priority: Yes

Description\Location
PRS-266, PV 47-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.06	45,000
Cs-137	*	0.02	0.04	45,000
Pb-210		0.92	0.6	45,000
Ra-226		1.97	0.58	800
Ac-227 (D)	*	0.07	0.22	40
Th-230	*	0.91	5.37	800
Th-232 (D)		1.18	0.19	130
Pu-238	*	6.4	11.89	500
Am-241	*	0.01	0.06	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd
Sample description previously reported as PRS-266, PV 67-1-A in error. - SEK 7/30/02

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14309
File ID: MG101688.s0
Priority: Yes

Description\Location
PRS-266, PV 47-2

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.04	0.12	45,000
Cs-137	*	0.05	0.08	45,000
Pb-210		1.76	1.34	45,000
Ra-226		2.95	1.57	800
Ac-227 (D)	*	0.11	0.44	40
Th-230	*	0	12.96	800
Th-232 (D)		3.13	0.39	130
Pu-238	*	0	29.69	500
Am-241	*	0	0.15	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.12

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/22/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14435
File ID: MG101717.s0
Priority: Yes

Description\Location
PRS-266, PV 47-2A

Collector: 7581
Date Received: 7/31/02
Date Collected: 7/31/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.06	45,000
Cs-137	*	0.04	0.05	45,000
Pb-210		1.02	0.7	45,000
Ra-226		1.34	0.82	800
Ac-227 (D)	*	0	0.3	40
Th-230	*	0	7.8	800
Th-232 (D)		1.3	0.14	130
Pu-238	*	0	16.01	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 8/6/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14267
File ID: F0001015.s0
Priority: Yes

Description\Location
PRS-266, PV 48

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0.01	0.04	45,000
Pb-210	*	0.05	1.1	45,000
Ra-226		1.45	1.12	800
Ac-227 (D)	*	0	0.55	40
Th-230	*	0	12.42	800
Th-232 (D)		3.88	0.12	130
Pu-238	*	0	37.54	500
Am-241	*	0.05	0.13	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.06 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• *Indicates activity < MDA. MDA used in limits calculation*

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14394
File ID: MG101713.s0
Priority: Yes

Description\Location
PRS-266, PV 48-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.06	45,000
Cs-137	*	0.02	0.04	45,000
Pb-210		0.92	0.6	45,000
Ra-226		1.97	0.58	800
Ac-227 (D)	*	0.07	0.22	40
Th-230	*	0.91	5.37	800
Th-232 (D)		1.18	0.19	130
Pu-238	*	6.4	11.89	500
Am-241	*	0.01	0.06	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials 8Eh

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14268
File ID: F0001016.s0
Priority: Yes

Description\Location
PRS-266, PV 49

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.08	0.84	45,000
Ra-226		1.77	0.81	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	4.62	7.99	800
Th-232 (D)		0.9	0.1	130
Pu-238	*	0	28.08	500
Am-241	*	0.04	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14228
File ID: MG300956.s0
Priority: Yes

Description\Location
PRS-266, PV 50

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.05	45,000
Cs-137	*	0	0.05	45,000
Pb-210	*	0	1.27	45,000
Ra-226		1.48	0.95	800
Ac-227 (D)	*	0	0.58	40
Th-230	*	2.85	9.83	800
Th-232 (D)		0.88	0.19	130
Pu-238	*	9.28	23.51	500
Am-241	*	0	0.12	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SCB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14229
File ID: F0001056.s0
Priority: Yes

Description\Location
PRS-266, PV 51

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210		1.43	0.74	45,000
Ra-226		2.04	0.74	800
Ac-227 (D)	*	0	0.36	40
Th-230	*	2.82	7.45	800
Th-232 (D)		1.3	0.1	130
Pu-238	*	0	24.38	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit. total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG400389.s0.

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14236
File ID: MG500163.s0
Priority: Yes

Description\Location
PRS-266, PV 52

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.05	45,000
Cs-137	*	0.02	0.05	45,000
Pb-210	*	0.96	1.04	45,000
Ra-226		1.73	0.93	800
Ac-227 (D)	*	0	0.34	40
Th-230	*	2.55	9.75	800
Th-232 (D)		0.93	0.16	130
Pu-238	*	0	29.48	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14329
File ID: F0001037.s0
Priority: Yes

Description\Location
PRS-266, PV 53

Collector: 6210
Date Received: 7/17/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.23	0.8	45,000
Ra-226		1.77	0.75	800
Ac-227 (D)	*	0.09	0.37	40
Th-230	*	6.92	7.11	800
Th-232 (D)		0.72	0.11	130
Pu-238	*	1.2	24.93	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table-4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14290
File ID: MG101695.s0
Priority: Yes

Description\Location
PRS-266, PV 54

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.1	45,000
Cs-137	*	0.03	0.06	45,000
Pb-210		1.22	0.75	45,000
Ra-226		1.7	0.82	800
Ac-227 (D)	*	0.06	0.29	40
Th-230	*	0	7.73	800
Th-232 (D)		1.11	0.23	130
Pu-238	*	0	17.08	500
Am-241	*	0.01	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14310
File ID: MG500185.s0
Priority: Yes

Description\Location
PRS-266, PV 54-1

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/17/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.06	45,000
Cs-137	*	0.01	0.04	45,000
Pb-210	*	0	1.12	45,000
Ra-226		1.99	0.99	800
Ac-227 (D)	*	0	0.32	40
Th-230	*	0	9.9	800
Th-232 (D)		1.17	0.17	130
Pu-238	*	0	29.82	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG500185.

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14291
File ID: MG101696.s0
Priority: Yes

Description\Location
PRS-266, PV 55

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.09	45,000
Cs-137	*	0.03	0.06	45,000
Pb-210		1.31	0.76	45,000
Ra-226		1.32	0.92	800
Ac-227 (D)	*	0.04	0.32	40
Th-230	*	3.34	7.63	800
Th-232 (D)		1.03	0.24	130
Pu-238	*	0	19.41	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials BCH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14269
File ID: F0001017.s0
Priority: Yes

Description\Location
PRS-266, PV 56

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137	*	0.03	0.04	45,000
Pb-210		1.38	0.89	45,000
Ra-226		2.01	0.95	800
Ac-227 (D)		0.44	0.43	40
Th-230	*	0.72	9.79	800
Th-232 (D)		1.78	0.14	130
Pu-238	*	0	30.91	500
Am-241	*	0.01	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14249
File ID: MG400387.s0
Priority: Yes

Description\Location
PRS-266, PV 56-1

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.07	45,000
Cs-137	*	0	0.1	45,000
Pb-210	*	0	2.75	45,000
Ra-226		4.29	2.38	800
Ac-227 (D)	*	0	1.25	40
Th-230	*	20.84	26.28	800
Th-232 (D)		21.39	0.27	130
Pu-238	*	0	148.1	500
Am-241	*	0	0.3	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.20 nCi/g $\Sigma_{Respirator}$ 0.53

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/17/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14376
File ID: MG101709.s0
Priority: Yes

Description\Location
PRS-266, PV 56-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.11	45,000
Cs-137	*	0	0.07	45,000
Pb-210	*	0.19	1.14	45,000
Ra-226		1.68	1.03	800
Ac-227 (D)	*	0	0.38	40
Th-230	*	8.22	8.65	800
Th-232 (D)		1.3	0.3	130
Pu-238	*	0	21.89	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SCB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14270
File ID: F0001018.s0
Priority: Yes

Description\Location
PRS-266, PV 57

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0.01	0.04	45,000
Pb-210		1.09	1.01	45,000
Ra-226		1.36	1.04	800
Ac-227 (D)	*	0.05	0.49	40
Th-230	*	6.26	11.07	800
Th-232 (D)		2.58	0.16	130
Pu-238	*	10.01	31.53	500
Am-241	*	0.1	0.12	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.11

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14377
File ID: F0001042.s0
Priority: Yes

Description\Location
PRS-266, PV 57-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210	*	0	0.91	45,000
Ra-226		1.48	0.88	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	3.99	8.37	800
Th-232 (D)		0.85	0.12	130
Pu-238	*	0	29.48	500
Am-241	*	0.03	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials: SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14256
File ID: MG101665.s0
Priority: Yes

Description\Location
PRS-266, PV 57-1

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.31	45,000
Cs-137	*	• 0.01	0.35	45,000
Pb-210	*	1.09	4.41	45,000
Ra-226	*	4.26	5.25	800
Ac-227 (D)	*	1.26	1.64	40
Th-230	*	0	44.94	800
Th-232 (D)		46.37	0.87	130
Pu-238	*	0	99.82	500
Am-241	*	0	0.49	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.20 nCi/g

$\Sigma_{Respirator}$ 0.66

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14378
File ID: F0001043.s0
Priority: Yes

Description\Location
PRS-266, PV 57-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.39	0.86	45,000
Ra-226		1.52	0.86	800
Ac-227 (D)	*	0	0.4	40
Th-230	*	4.51	8.26	800
Th-232 (D)		0.96	0.13	130
Pu-238	*	0	27.86	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14230
File ID: F0001057.s0
Priority: Yes

Description\Location
PRS-266, PV 58

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0.05	0.72	45,000
Ra-226		1.27	0.69	800
Ac-227 (D)	*	0	0.33	40
Th-230	*	0	6.94	800
Th-232 (D)		0.91	0.08	130
Pu-238	*	1.1	21.86	500
Am-241	*	0	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG500161.s0

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14231
File ID: MG101671.s0
Priority: Yes

Description\Location
PRS-266, PV 59

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.12	45,000
Cs-137	*	0.03	0.08	45,000
Pb-210		1.29	1.15	45,000
Ra-226		1.95	1.19	800
Ac-227 (D)	*	0	0.38	40
Th-230	*	5.43	9.33	800
Th-232 (D)		1.45	0.34	130
Pu-238	*	6.98	22.95	500
Am-241	*	0	0.12	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14209
File ID: F0001053.s0
Priority: Yes

Description\Location
PRS-266, PV 60

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.65	0.67	45,000
Ra-226		1.84	0.67	800
Ac-227 (D)	*	0	0.31	40
Th-230	*	1.79	6.69	800
Th-232 (D)		0.89	0.09	130
Pu-238	*	0	21.6	500
Am-241	*	0.02	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG101656.s0.

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14203
File ID: MG101654.s0
Priority: Yes

Description\Location
PRS-266, PV 60-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.22	45,000
Cs-137	*	0.1	0.17	45,000
Pb-210	*	0.46	2.29	45,000
Ra-226		3	2.59	800
Ac-227 (D)	*	0	1.17	40
Th-230	*	1.88	23.64	800
Th-232 (D)		11.17	0.42	130
Pu-238	*	0	54.25	500
Am-241	*	0	0.27	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.10 nCi/g $\Sigma_{Respirator}$ 0.26

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/15/02 Counted By: 6152 Analyzed By: 6152 Initials SEH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14379
File ID: F0001044.s0
Priority: Yes

Description\Location
PRS-266, PV 60-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0	0.77	45,000
Ra-226		1.09	0.8	800
Ac-227 (D)	*	0	0.36	40
Th-230	*	0	7.77	800
Th-232 (D)		0.97	0.09	130
Pu-238	*	0	24.16	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14292
File ID: MG400401.s0
Priority: Yes

Description\Location
PRS-266, PV 61

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.64	1	45,000
Ra-226		1.67	0.8	800
Ac-227 (D)	*	0	0.45	40
Th-230	*	0	8.41	800
Th-232 (D)		1.17	0.13	130
Pu-238	*	0	53.54	500
Am-241		0.13	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14271
File ID: F0001019.s0
Priority: Yes

Description\Location
PRS-266, PV 62

Collector: 6144
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0.63	0.87	45,000
Ra-226		1.25	0.9	800
Ac-227 (D)	*	0.34	0.41	40
Th-230	*	0	9.2	800
Th-232 (D)		1.33	0.12	130
Pu-238	*	0	29.85	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14272
File ID: F0001011.s0
Priority: Yes

Description\Location
PRS-266, PV 63

Collector: 6144
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.43	0.91	45,000
Ra-226		1.53	0.93	800
Ac-227 (D)	*	0.09	0.42	40
Th-230	*	0	9.31	800
Th-232 (D)		1.12	0.13	130
Pu-238	*	0	29.43	500
Am-241	*	0.02	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14232
File ID: MG300957.s0
Priority: Yes

Description\Location
PRS-266, PV 64

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.05	45,000
Cs-137	*	0.01	0.05	45,000
Pb-210	*	0.45	1.06	45,000
Ra-226		1.84	0.84	800
Ac-227 (D)	*	0.34	0.45	40
Th-230	*	0	9.38	800
Th-232 (D)		0.94	0.15	130
Pu-238	*	0	21.61	500
Am-241	*	0.04	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials BK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14223
File ID: MG300950.s0
Priority: Yes

Description\Location
PRS-266, PV 64-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.13	45,000
Cs-137	*	0.03	0.18	45,000
Pb-210	*	0	4.37	45,000
Ra-226		4.2	3.73	800
Ac-227 (D)	*	0	2.01	40
Th-230	*	9.11	43.42	800
Th-232 (D)		41.11	0.43	130
Pu-238	*	21.93	88.64	500
Am-241	*	0	0.46	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.18 nCi/g $\Sigma_{Respirator}$ 0.61

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SBR

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14380
File ID: F0001045.s0
Priority: Yes

Description\Location
PRS-266, PV 64-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.03	0.03	45,000
Cs-137		0.03	0.03	45,000
Pb-210	*	0	0.85	45,000
Ra-226		1.2	0.82	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	5.3	7.6	800
Th-232 (D)		0.82	0.11	130
Pu-238	*	0	26.53	500
Am-241	*	0.04	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14233
File ID: F0001058.s0
Priority: Yes

Description\Location
PRS-266, PV 65

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0	0.74	45,000
Ra-226		1.83	0.72	800
Ac-227 (D)	*	0	0.33	40
Th-230	*	0	7.07	800
Th-232 (D)		0.68	0.08	130
Pu-238	*	0	22.97	500
Am-241	*	0.04	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG400390.s0

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14220
File ID: MG101659.s0
Priority: Yes

Description\Location
PRS-266, PV 65-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.24	45,000
Cs-137	*	0	0.28	45,000
Pb-210	*	0.72	3.19	45,000
Ra-226		3.88	3.84	800
Ac-227 (D)	*	0	1.53	40
Th-230		31.94	31.59	800
Th-232 (D)		27.35	0.89	130
Pu-238	*	0	74.38	500
Am-241	*	0.23	0.35	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.14 nCi/g $\Sigma_{Respirator}$ 0.44

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SBR

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14381
File ID: F0001046.s0
Priority: Yes

Description\Location
PRS-266, PV 65-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0.02	0.03	45,000
Pb-210	*	0	0.85	45,000
Ra-226		1.06	0.83	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	4.44	7.58	800
Th-232 (D)		1.03	0.11	130
Pu-238	*	0	24.87	500
Am-241	*	0.03	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14210
File ID: MG300948.s0
Priority: Yes

Description\Location
PRS-266, PV 66

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.04	45,000
Cs-137	*	0.03	0.04	45,000
Pb-210		1.03	0.87	45,000
Ra-226		1.12	0.75	800
Ac-227 (D)	*	0.6	0.71	40
Th-230	*	3.21	7.82	800
Th-232 (D)		0.6	0.13	130
Pu-238	*	3.09	18.99	500
Am-241	*	0.01	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14273
File ID: MG400400.s0
Priority: Yes

Description\Location
PRS-266, PV 67

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210	*	0.5	1.05	45,000
Ra-226		1.7	0.87	800
Ac-227 (D)	*	0	0.47	40
Th-230	*	3.5	8.54	800
Th-232 (D)		1.48	0.14	130
Pu-238	*	16.43	53.45	500
Am-241	*	0.01	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SRB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14215
File ID: MG400383.s0
Priority: Yes

Description\Location
PRS-266, PV 67-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.04	45,000
Cs-137		0.64	0.05	45,000
Pb-210		3.54	1.44	45,000
Ra-226		3.58	1.12	800
Ac-227 (D)	*	0.5	0.63	40
Th-230	*	2.79	12.43	800
Th-232 (D)		2.26	0.18	130
Pu-238	*	24.42	72.35	500
Am-241	*	0	0.14	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.10 nCi/g $\Sigma_{Respirator}$ 0.20

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials 8/17

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14395
File ID: MG500180.s0
Priority: Yes

Description\Location
PRS-266, PV 67-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.04	45,000
Cs-137		0.24	0.03	45,000
Pb-210	*	0.7	1.07	45,000
Ra-226		1.59	0.92	800
Ac-227 (D)	*	0	0.31	40
Th-230	*	3.49	9.79	800
Th-232 (D)		1.35	0.15	130
Pu-238	*	3.68	25.92	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14257
File ID: F0001059.s0
Priority: Yes

Description\Location
PRS-266, PV 67-2

Collector: 6144
Date Received: 7/31/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137		0.05	0.03	45,000
Pb-210		0.93	0.9	45,000
Ra-226		2.02	0.9	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	4.37	8.68	800
Th-232 (D)		1.15	0.12	130
Pu-238	*	0	28.8	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG101667.s0

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials 8/5

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14237
File ID: F0001007.s0
Priority: Yes

Description\Location
PRS-266, PV 68

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0	0.77	45,000
Ra-226		1.65	0.75	800
Ac-227 (D)	*	0	0.36	40
Th-230	*	0.59	7.63	800
Th-232 (D)		0.75	0.09	130
Pu-238	*	0	26.62	500
Am-241	*	0.01	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 5801 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14258
File ID: MG101667.s0
Priority: Yes

Description\Location
PRS-266, PV 68-1

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.22	45,000
Cs-137	*	0.01	0.15	45,000
Pb-210	*	0	2.2	45,000
Ra-226		4.1	2.24	800
Ac-227 (D)	*	0.1	0.7	40
Th-230	*	0	19.79	800
Th-232 (D)		5.23	0.54	130
Pu-238	*	17.24	44.83	500
Am-241	*	0	0.22	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.08 nCi/g $\Sigma_{Respirator}$ 0.18

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/17/02 Counted By: 6152 Analyzed By: 6152 Initials 8215

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14382
File ID: F0001047.s0
Priority: Yes

Description\Location
PRS-266, PV 68-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210	*	0.52	0.84	45,000
Ra-226		1.72	0.86	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	0	8.6	800
Th-232 (D)		1.01	0.13	130
Pu-238	*	0	28.19	500
Am-241	*	0.01	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14238
File ID: F0001008.s0
Priority: Yes

Description\Location
PRS-266, PV 69

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137		0.06	0.03	45,000
Pb-210	*	0.31	0.75	45,000
Ra-226		2.07	0.74	800
Ac-227 (D)	*	0	0.36	40
Th-230	*	5.27	7.48	800
Th-232 (D)		1.03	0.08	130
Pu-238	*	0	24.09	500
Am-241	*	0	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/23/~~01~~ 02 SEK Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14216
File ID: MG500151.s0
Priority: Yes

Description\Location
PRS-266, PV 69-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.03	0.1	45,000
Cs-137	*	0.05	0.12	45,000
Pb-210	*	0.59	3.13	45,000
Ra-226	*	2.12	2.88	800
Ac-227 (D)	*	0.28	1.45	40
Th-230	*	0	35.3	800
Th-232 (D)		10.41	0.55	130
Pu-238	*	66.81	78.11	500
Am-241	*	0	0.34	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.13 nCi/g $\Sigma_{Respirator}$ 0.32

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14385
File ID: F0001050.s0
Priority: Yes

Description\Location
PRS-266, PV 69-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0	0.03	45,000
Pb-210	*	0.44	0.73	45,000
Ra-226	*	0.56	0.77	800
Ac-227 (D)	*	0.02	0.34	40
Th-230	*	0	7.49	800
Th-232 (D)		0.72	0.09	130
Pu-238	*	0	24.79	500
Am-241	*	0.01	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14217
File ID: MG101658.s0
Priority: Yes

Description\Location
PRS-266, PV 69-2

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.03	0.19	45,000
Cs-137		0.22	0.17	45,000
Pb-210	*	0	2.67	45,000
Ra-226		4.98	2.87	800
Ac-227 (D)	*	0	1.24	40
Th-230	*	5.52	27.1	800
Th-232 (D)		13.39	0.57	130
Pu-238	*	10.09	59.42	500
Am-241	*	0	0.3	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.11 nCi/g $\Sigma_{Respirator}$ 0.29

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SDT

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14383
File ID: F0001048.s0
Priority: Yes

Description\Location
PRS-266, PV 69-2-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137		0.02	0.02	45,000
Pb-210	*	0.27	0.69	45,000
Ra-226		0.99	0.71	800
Ac-227 (D)	*	0.14	0.33	40
Th-230	*	3.46	6.77	800
Th-232 (D)		0.67	0.1	130
Pu-238	*	0	23.25	500
Am-241	*	0	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14218
File ID: MG300949.s0
Priority: Yes

Description\Location
PRS-266, PV 69-3

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.04	0.05	45,000
Cs-137	*	0	0.07	45,000
Pb-210	*	0	1.52	45,000
Ra-226		1.31	1.2	800
Ac-227 (D)	*	0	0.73	40
Th-230	*	10.98	12.96	800
Th-232 (D)		2.23	0.19	130
Pu-238	*	25.29	30.68	500
Am-241	*	0.03	0.14	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.12

Instrument type: High Purity Germanium

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14384
File ID: F0001049.s0
Priority: Yes

Description\Location
PRS-266, PV 69-3-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210	*	0.19	0.83	45,000
Ra-226		1.31	0.79	800
Ac-227 (D)	*	0.17	0.38	40
Th-230	*	0	8.34	800
Th-232 (D)		1.03	0.12	130
Pu-238	*	0	25.19	500
Am-241	*	0.06	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14211
File ID: MG500150.s0
Priority: Yes

Description\Location
PRS-266, PV 70

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.06	45,000
Cs-137	*	0	0.07	45,000
Pb-210	*	0.68	1.46	45,000
Ra-226		1.52	1.43	800
Ac-227 (D)	*	0	0.67	40
Th-230	*	0.29	15.99	800
Th-232 (D)		4.51	0.26	130
Pu-238	*	0	41.8	500
Am-241	*	0	0.17	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g

$\Sigma_{Respirator}$ 0.16

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14396
File ID: MG101714.s0
Priority: Yes

Description\Location
PRS-266, PV 70-A

Collector: 7581
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.07	45,000
Cs-137	*	0.02	0.05	45,000
Pb-210	*	0.56	0.83	45,000
Ra-226		2.05	0.79	800
Ac-227 (D)	*	0.03	0.28	40
Th-230	*	1.77	6.76	800
Th-232 (D)		0.8	0.19	130
Pu-238	*	9.49	14.44	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SBG

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14204
File ID: MG500148.s0
Priority: Yes

Description\Location
PRS-266, PV 70-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.14	45,000
Cs-137	*	0	0.13	45,000
Pb-210	*	0	3.57	45,000
Ra-226	*	0.25	2.78	800
Ac-227 (D)	*	0	1.05	40
Th-230	*	0	30.35	800
Th-232 (D)		3.94	0.63	130
Pu-238	*	0	71.95	500
Am-241	*	0.01	0.3	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.11 nCi/g $\Sigma_{Respirator}$ 0.24

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/15/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14386
File ID: F0001051.s0
Priority: Yes

Description\Location
PRS-266, PV 70-1-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137	*	0.01	0.03	45,000
Pb-210		1.15	0.86	45,000
Ra-226		1.48	0.86	800
Ac-227 (D)	*	0.02	0.41	40
Th-230	*	7.83	7.94	800
Th-232 (D)		0.79	0.11	130
Pu-238	*	11.54	26.54	500
Am-241	*	0.07	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14205
File ID: MG300947.s0
Priority: Yes

Description\Location
PRS-266, PV 70-2

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.04	0.1	45,000
Cs-137	*	0	0.15	45,000
Pb-210	*	0	3.2	45,000
Ra-226	*	1.01	2.77	800
Ac-227 (D)	*	0	1.46	40
Th-230	*	4.54	30.62	800
Th-232 (D)		12.4	0.32	130
Pu-238	*	0	64.31	500
Am-241	*	0.07	0.33	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.12 nCi/g $\Sigma_{Respirator}$ 0.30

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/15/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14387
File ID: F0001052.s0
Priority: Yes

Description\Location
PRS-266, PV 70-2-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137	*	0	0.03	45,000
Pb-210		0.86	0.64	45,000
Ra-226		1.18	0.7	800
Ac-227 (D)	*	0	0.31	40
Th-230	*	4.12	6.46	800
Th-232 (D)		0.55	0.1	130
Pu-238	*	0	21.76	500
Am-241	*	0	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/30/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14206
File ID: MG400382.s0
Priority: Yes

Description\Location
PRS-266, PV 70-3

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137	*	0	0.04	45,000
Pb-210		1.28	1.02	45,000
Ra-226		2.85	0.83	800
Ac-227 (D)	*	0	0.5	40
Th-230	*	0	9.63	800
Th-232 (D)		1.34	0.13	130
Pu-238	*	25.08	58.44	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.16

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SRH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14388
File ID: MG101710.s0
Priority: Yes

Description\Location
PRS-266, PV 70-3-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.04	0.04	45,000
Cs-137	*	0.01	0.05	45,000
Pb-210	*	0.8	0.81	45,000
Ra-226		1.63	0.92	800
Ac-227 (D)	*	0	0.32	40
Th-230	*	1.56	7.98	800
Th-232 (D)		0.97	0.27	130
Pu-238	*	0	18.7	500
Am-241	*	0.01	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14207
File ID: MG500149.s0
Priority: Yes

Description\Location
PRS-266, PV 70-4

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.04	0.09	45,000
Cs-137		0.13	0.12	45,000
Pb-210		3.01	2.94	45,000
Ra-226		4.08	3.02	800
Ac-227 (D)	*	0.09	1.44	40
Th-230	*	0	35.37	800
Th-232 (D)		29.26	0.32	130
Pu-238	*	0	85.17	500
Am-241	*	0	0.36	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.16 nCi/g $\Sigma_{Respirator}$ 0.48

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/15/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14389
File ID: MG101711.s0
Priority: Yes

Description\Location
PRS-266, PV 70-4-A

Collector: 6210
Date Received: 7/25/02
Date Collected: 7/25/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.09	45,000
Cs-137	*	0	0.06	45,000
Pb-210		1.17	0.83	45,000
Ra-226		1.89	0.86	800
Ac-227 (D)	*	0	0.3	40
Th-230	*	1.87	7.32	800
Th-232 (D)		0.8	0.21	130
Pu-238	*	0	19.96	500
Am-241	*	0.01	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4.

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 7/29/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14239
File ID: MG101674.s0
Priority: Yes

Description\Location
PRS-266, PV 71

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.07	45,000
Cs-137		0.52	0.08	45,000
Pb-210		2.04	0.88	45,000
Ra-226		1.81	1.02	800
Ac-227 (D)	*	0	0.35	40
Th-230	*	0	8.29	800
Th-232 (D)		1.4	0.19	130
Pu-238	*	0	20.47	500
Am-241	*	0.01	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14240
File ID: MG400391.s0
Priority: Yes

Description\Location
PRS-266, PV 72

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.03	0.03	45,000
Pb-210	*	0.67	0.9	45,000
Ra-226		1.7	0.74	800
Ac-227 (D)	*	0.31	0.39	40
Th-230	*	1.71	7.89	800
Th-232 (D)		0.95	0.1	130
Pu-238	*	1.63	53.71	500
Am-241	*	0.07	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials SKS

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14212
File ID: F0001054.s0
Priority: Yes

Description\Location
PRS-266, PV 73

Collector: 6210
Date Received: 7/31/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137	*	0.01	0.02	45,000
Pb-210	*	0.38	0.62	45,000
Ra-226		1.55	0.64	800
Ac-227 (D)	*	0.05	0.28	40
Th-230	*	0	6.13	800
Th-232 (D)		0.64	0.08	130
Pu-238	*	0	20.23	500
Am-241	*	0	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: This is a recount result. Initial results are contained in file #MG400384.s0.

Date: 8/5/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14213
File ID: MG500153.s0
Priority: Yes

Description\Location
PRS-266, PV 74

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137		0.05	0.04	45,000
Pb-210	*	0.51	1.1	45,000
Ra-226		1.28	0.99	800
Ac-227 (D)	*	0	0.32	40
Th-230	*	4.05	9.78	800
Th-232 (D)		0.9	0.16	130
Pu-238	*	0	29.04	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 7/16/02 Counted By: 6152 Analyzed By: 6152 Initials SEM

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14208
File ID: MG101655.s0
Priority: Yes

Description\Location
PRS-266, PV 74-1

Collector: 6210
Date Received: 7/15/02
Date Collected: 7/15/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.11	45,000
Cs-137	*	0.03	0.09	45,000
Pb-210	*	0.7	1.15	45,000
Ra-226		1.63	1.12	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	2.85	9.89	800
Th-232 (D)		1.65	0.3	130
Pu-238	*	4.86	22.16	500
Am-241	*	0.04	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

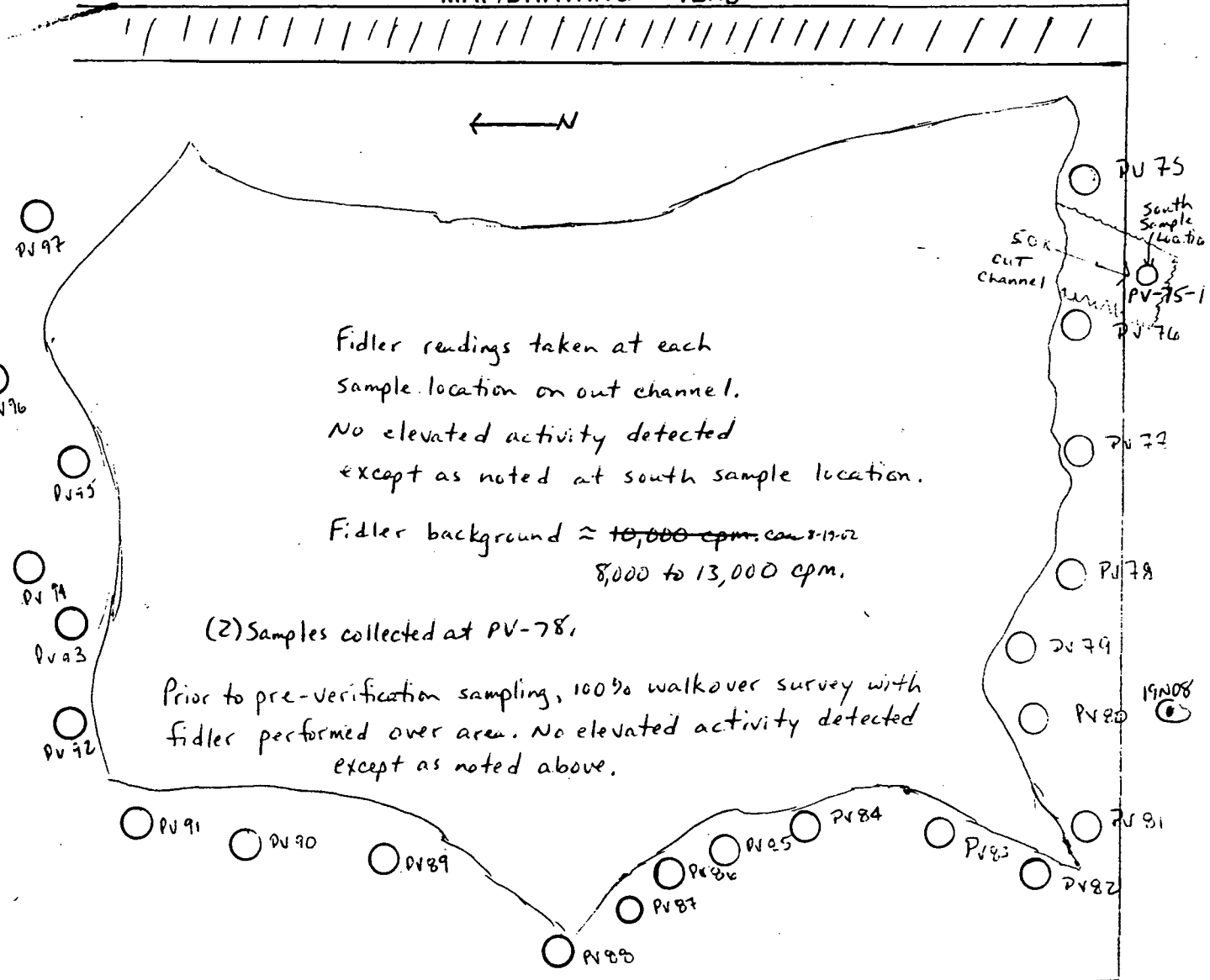
Date: 7/15/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

PRS 266 WALKOVER SURVEY & PREVERIFICATION RESULTS FOR BOUNDARY AREA

RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG./AREA/ROOM) PRS 266	SURVEY NO. 02-ER-587
PURPOSE: D\S BOUNDARY SURVEY	RWP NO. N/A
	DATE: 8-6-02
	TIME: 1300

MAP/DRAWING



Fidler readings taken at each sample location on out channel. No elevated activity detected except as noted at south sample location.

Fidler background ≈ ~~10,000 cpm.~~ ~~can~~ 8-19-02 8,000 to 13,000 cpm.

(2) Samples collected at PV-78.

Prior to pre-verification sampling, 100% walkover survey with fidler performed over area. No elevated activity detected except as noted above.

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDER	3829 / 3430	7-13-03

Completed by: (Signature) Lynn Young	HPs 6210 5350	Date: 8-6-02
Completed by: (Print Name) Tim Holland / Lynn Young		
Counted by: (Signature) N/A	HPs	Date:
Counted by: (Print Name)		
Reviewed/Approved by: (Signature)	HPs 6144	Date: 8/19/02
Reviewed/Approved by: (Print Name) Charles Finkenbine		

ML-9620 (2-98)

Survey No. N/A

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
		N/A		

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
		N/A		

COMMENTS: N/A

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14471
File ID: F0001072.s0
Priority: Yes

Description\Location
PRS-266, PV 75

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.03	0.03	45,000
Pb-210		1.08	0.68	45,000
Ra-226	*	0.76	0.78	800
Ac-227 (D)	*	0.04	0.32	40
Th-230	*	0.95	6.78	800
Th-232 (D)		0.51	0.09	130
Pu-238	*	0	24.47	500
Am-241	*	0	0.08	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials SK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14472
File ID: F0001073.s0
Priority: Yes

Description\Location
PRS-266, PV 76

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.04	45,000
Cs-137		0.1	0.04	45,000
Pb-210	*	1.05	1.1	45,000
Ra-226		1.23	1.1	800
Ac-227 (D)	*	0.18	0.45	40
Th-230	*	0	9.9	800
Th-232 (D)		0.7	0.16	130
Pu-238	*	0	34.46	500
Am-241		0.1	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14473
File ID: F0001074.s0
Priority: Yes

Description\Location
PRS-266, PV 77

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137		0.1	0.04	45,000
Pb-210		1.63	1.13	45,000
Ra-226		1.78	1.17	800
Ac-227 (D)	*	0	0.53	40
Th-230	*	8.15	10.29	800
Th-232 (D)		1.17	0.15	130
Pu-238	*	0	37.47	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g

$\Sigma_{Respirator}$ 0.11

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14474
File ID: F0001075.s0
Priority: Yes

Description\Location
PRS-266, PV 78

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.04	45,000
Cs-137		0.13	0.04	45,000
Pb-210		2.55	1.11	45,000
Ra-226	*	1.04	1.12	800
Ac-227 (D)	*	0.02	0.51	40
Th-230	*	7.59	9.83	800
Th-232 (D)		0.9	0.14	130
Pu-238	*	0	35.63	500
Am-241	*	0.1	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.11

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SKT

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14289
File ID: MG101694.s0
Priority: Yes

Description\Location
PRS-266, PV 78

Collector: 6210
Date Received: 7/16/02
Date Collected: 7/16/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.11	45,000
Cs-137	*	0	0.07	45,000
Pb-210		1.52	0.85	45,000
Ra-226		1.09	0.97	800
Ac-227 (D)	*	0	0.39	40
Th-230	*	0.35	8.55	800
Th-232 (D)		1.34	0.24	130
Pu-238	*	1.8	19.97	500
Am-241	*	0.01	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 7/24/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14475
File ID: F0001076.s0
Priority: Yes

Description\Location
PRS-266, PV 79

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.04	45,000
Cs-137		0.06	0.05	45,000
Pb-210	*	1.03	1.15	45,000
Ra-226		1.25	1.12	800
Ac-227 (D)	*	0	0.53	40
Th-230	*	8.56	9.87	800
Th-232 (D)		0.98	0.15	130
Pu-238	*	0	36.75	500
Am-241	*	0.06	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.11

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation .

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14476
File ID: F0001077.s0
Priority: Yes

Description\Location
PRS-266, PV 80

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137		0.14	0.04	45,000
Pb-210		1.27	1.15	45,000
Ra-226		1.98	1.02	800
Ac-227 (D)	*	0.05	0.51	40
Th-230	*	5.76	9.9	800
Th-232 (D)		0.91	0.13	130
Pu-238	*	0	35.71	500
Am-241	*	0.08	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g

$\Sigma_{Respirator}$ 0.11

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14477
File ID: F0001078.s0
Priority: Yes

Description\Location
PRS-266, PV 81

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.07	0.04	45,000
Pb-210		1.33	1	45,000
Ra-226		1.87	1	800
Ac-227 (D)	*	0.11	0.48	40
Th-230	*	2.35	9.99	800
Th-232 (D)		1.26	0.13	130
Pu-238	*	0	32.45	500
Am-241	*	0.03	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SEV

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14478
File ID: F0001079.s0
Priority: Yes

Description\Location
PRS-266, PV 82

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.03	45,000
Cs-137		0.2	0.04	45,000
Pb-210	*	0.89	1	45,000
Ra-226		1.29	0.96	800
Ac-227 (D)	*	0.01	0.44	40
Th-230	*	3.65	9.23	800
Th-232 (D)		1.19	0.12	130
Pu-238	*	0	29.6	500
Am-241	*	0.03	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SPK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14479
File ID: F0001080.s0
Priority: Yes

Description\Location
PRS-266, PV 83

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.03	45,000
Cs-137		0.27	0.05	45,000
Pb-210		1.32	1.07	45,000
Ra-226		2.45	1.02	800
Ac-227 (D)	*	0.28	0.47	40
Th-230	*	5.13	9.86	800
Th-232 (D)		1	0.12	130
Pu-238	*	0	31.91	500
Am-241	*	0.06	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g

$\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra226 could not be corrected for U235 contribution because all uranium concentrations were below the MDA.

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SGh

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14480
File ID: F0001081.s0
Priority: Yes

Description\Location
PRS-266, PV 84

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.03	0.03	45,000
Cs-137		0.24	0.05	45,000
Pb-210	*	0.27	1.1	45,000
Ra-226		1.72	0.98	800
Ac-227 (D)	*	0.01	0.47	40
Th-230	*	0	9.82	800
Th-232 (D)		0.93	0.12	130
Pu-238	*	0	31.66	500
Am-241	*	0.05	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.05 nCi/g $\Sigma_{Respirator}$ 0.10

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14481
File ID: MG300979.s0
Priority: Yes

Description\Location
PRS-266, PV 85

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.03	45,000
Cs-137		0.38	0.04	45,000
Pb-210		1.85	0.73	45,000
Ra-226		1.83	0.57	800
Ac-227 (D)	*	0	0.33	40
Th-230	*	4.65	6.13	800
Th-232 (D)		1	0.1	130
Pu-238	*	0	19.18	500
Am-241	*	0	0.07	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g $\Sigma_{Respirator}$ 0.06

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/12/02 Counted By: 6152 Analyzed By: 6152 Initials SCB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14482
File ID: MG500193.s0
Priority: Yes

Description\Location
PRS-266, PV 86

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137		0.14	0.04	45,000
Pb-210	*	0.71	1.16	45,000
Ra-226		2.09	0.87	800
Ac-227 (D)	*	0.04	0.3	40
Th-230	*	1.44	9.39	800
Th-232 (D)		0.78	0.16	130
Pu-238	*	0	27.05	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/12/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14483
File ID: MG101724.s0
Priority: Yes

Description\Location
PRS-266, PV 87

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.05	0.12	45,000
Cs-137	*	0.03	0.1	45,000
Pb-210		2.33	1.12	45,000
Ra-226		1.43	1.13	800
Ac-227 (D)	*	0	0.42	40
Th-230	*	2.53	9.53	800
Th-232 (D)		0.87	0.44	130
Pu-238	*	7.23	24.85	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14484
File ID: MG300977.s0
Priority: Yes

Description\Location
PRS-266, PV 88

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137		0.05	0.04	45,000
Pb-210	*	0	1.09	45,000
Ra-226	*	0.32	0.81	800
Ac-227 (D)	*	0.11	0.44	40
Th-230	*	2.02	8.55	800
Th-232 (D)		1.01	0.15	130
Pu-238	*	15.6	18.14	500
Am-241		0.09	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.03 nCi/g

$\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14485
File ID: MG101729.s0
Priority: Yes

Description\Location
PRS-266, PV 89

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.05	45,000
Cs-137		0.12	0.04	45,000
Pb-210		1.88	0.63	45,000
Ra-226		1.55	0.63	800
Ac-227 (D)	*	0.02	0.21	40
Th-230	*	1.3	5.32	800
Th-232 (D)		0.96	0.18	130
Pu-238	*	0	13.71	500
Am-241	*	0	0.06	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SEH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14486
File ID: MG101725.s0
Priority: Yes

Description\Location
PRS-266, PV 90

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.06	0.01	45,000
Cs-137		0.16	0.09	45,000
Pb-210		1.68	1.03	45,000
Ra-226		1.62	1.09	800
Ac-227 (D)	*	0	0.35	40
Th-230	*	0.13	9.66	800
Th-232 (D)		1.14	0.2	130
Pu-238	*	0	25.35	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials [illegible]

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14487
File ID: MG101726.s0
Priority: Yes

Description\Location
PRS-266, PV 91

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.02	0.08	45,000
Cs-137		0.19	0.08	45,000
Pb-210		3.06	0.89	45,000
Ra-226		1.92	1	800
Ac-227 (D)	*	0	0.41	40
Th-230	*	0	9.32	800
Th-232 (D)		1.09	0.3	130
Pu-238	*	0	25.64	500
Am-241	*	0	0.11	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: Ra-226 concentration stripped of U-235 contribution per op. 5002 of MD-80030.

Date: 8/7/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14488
File ID: MG101727.s0
Priority: Yes

Description\Location
PRS-266, PV 92

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60		0.01	0.01	45,000
Cs-137	*	0.01	0.02	45,000
Pb-210	*	0.15	0.42	45,000
Ra-226		0.6	0.44	800
Ac-227 (D)	*	0	0.17	40
Th-230	*	1.56	2.6	800
Th-232 (D)		0.11	0.02	130
Pu-238	*	1.97	10.18	500
Am-241	*	0	0.04	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.01 nCi/g $\Sigma_{Respirator}$ 0.03

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SPR

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14489
File ID: MG500194.s0
Priority: Yes

Description\Location
PRS-266, PV 93

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.02	45,000
Cs-137		0.4	0.02	45,000
Pb-210		1.89	0.49	45,000
Ra-226		1.93	0.46	800
Ac-227 (D)	*	0	0.14	40
Th-230	*	0	4.57	800
Th-232 (D)		1.05	0.07	130
Pu-238	*	0	12.81	500
Am-241	*	0	0.05	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.02 nCi/g $\Sigma_{Respirator}$ 0.05

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/12/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14490
File ID: MG400415.s0
Priority: Yes

Description\Location
PRS-266, PV 94

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137		0.15	0.04	45,000
Pb-210		1.76	1.08	45,000
Ra-226		1.81	0.87	800
Ac-227 (D)	*	0.23	0.48	40
Th-230	*	0	9.39	800
Th-232 (D)		0.94	0.11	130
Pu-238	*	25.42	54.65	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SBH

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14491
File ID: MG500190.s0
Priority: Yes

Description\Location
PRS-266, PV 95

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.01	0.05	45,000
Cs-137		0.05	0.04	45,000
Pb-210		1.83	1.04	45,000
Ra-226		1.06	0.96	800
Ac-227 (D)	*	0.03	0.29	40
Th-230	*	1.45	9.71	800
Th-232 (D)		1.01	0.15	130
Pu-238	*	0	28.28	500
Am-241	*	0.04	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SPK

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14492
File ID: MG101728.s0
Priority: Yes

Description\Location
PRS-266, PV 96

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.08	45,000
Cs-137		0.33	0.08	45,000
Pb-210		1.89	0.94	45,000
Ra-226		1.33	1.03	800
Ac-227 (D)	*	0.14	0.3	40
Th-230	*	2.1	8.35	800
Th-232 (D)		1	0.31	130
Pu-238	*	0	23.21	500
Am-241	*	0.01	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.07

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SEB

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14493
File ID: MG500191.s0
Priority: Yes

Description\Location
PRS-266, PV 97

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137		0.14	0.05	45,000
Pb-210	*	0	1.11	45,000
Ra-226		1.95	0.81	800
Ac-227 (D)	*	0	0.28	40
Th-230	*	0	9.06	800
Th-232 (D)		0.9	0.16	130
Pu-238	*	7.27	23.79	500
Am-241	*	0	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SBV

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14470
File ID: MG101723.s0
Priority: Yes

Description\Location
PRS-266, South PV-75-1

Collector: 6210
Date Received: 8/6/02
Date Collected: 8/6/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0.17	0.18	45,000
Cs-137	*	0.16	0.23	45,000
Pb-210	*	0.13	3.1	45,000
Ra-226	*	2.05	3.33	800
Ac-227 (D)	*	0.16	1.1	40
Th-230	*	14.68	29.94	800
Th-232 (D)		24.35	0.56	130
Pu-238	*	0	65.13	500
Am-241	*	0	0.34	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.13 nCi/g $\Sigma_{Respirator}$ 0.39

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: gwd

Date: 8/6/02 Counted By: 6152 Analyzed By: 6152 Initials GWD

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14495
File ID: MG500192.s0
Priority: Yes

Description\Location
PRS-266, 19N08

Collector: 7581
Date Received: 8/7/02
Date Collected: 8/7/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.05	45,000
Cs-137		0.1	0.05	45,000
Pb-210		2.01	1.17	45,000
Ra-226		1.31	0.95	800
Ac-227 (D)	*	0	0.31	40
Th-230	*	7.02	8.89	800
Th-232 (D)		0.88	0.17	130
Pu-238	*	0	26.78	500
Am-241	*	0.05	0.1	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g

$\Sigma_{Respirator}$ 0.08

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

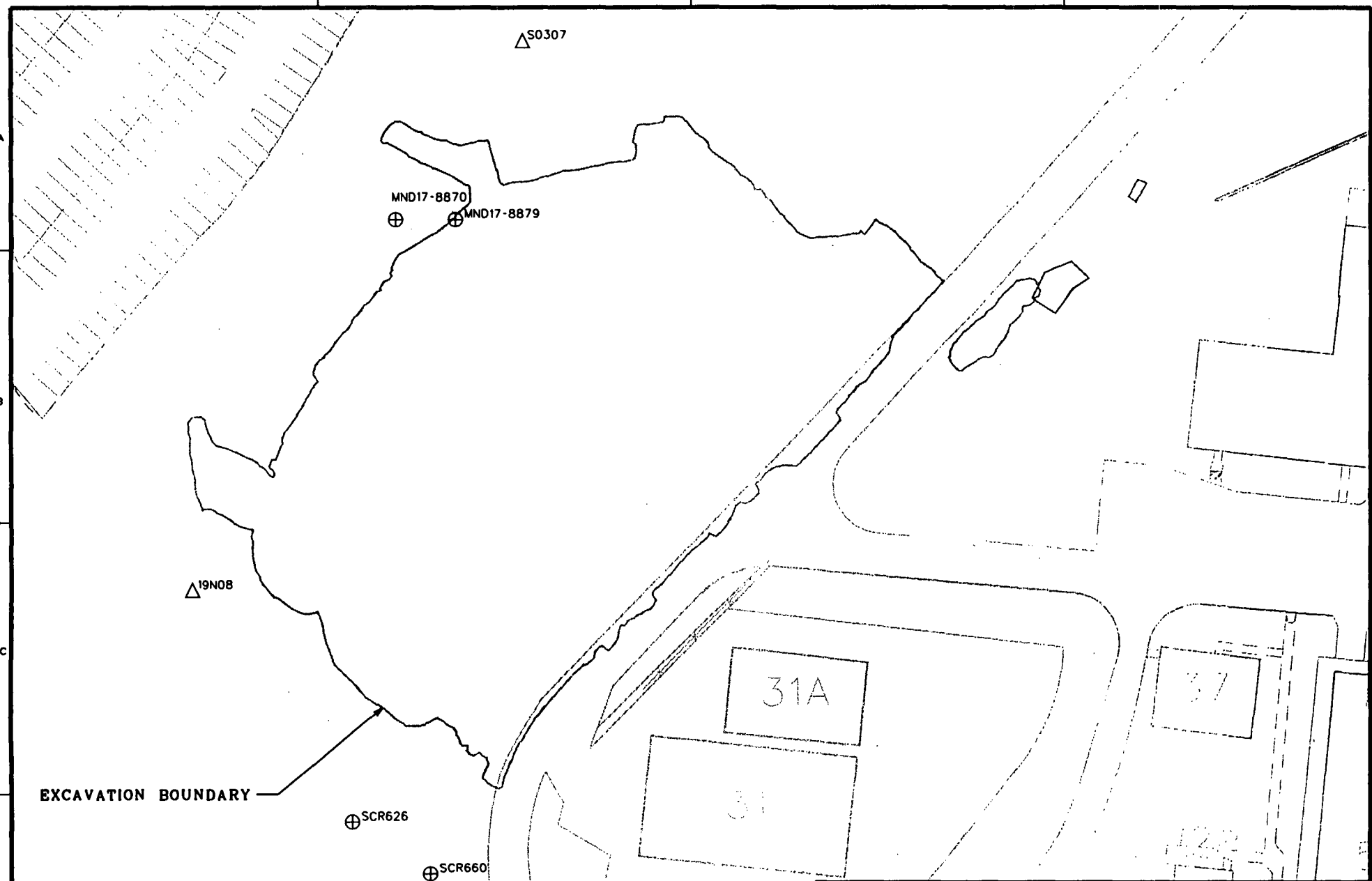
Date: 8/8/02 Counted By: 6152 Analyzed By: 6152 Initials SEK

PRS 266 ADDITIONAL AREAS

Table C-1
Historic Contamination Surrounding PRS 266 (pCi/g)

Radionuclide	Pu-238	Th-232	Comment
Cleanup Objective	55	2.1	
MND17-8870	60	<CO	This location is outside the dig zone, at the edge of the verification zone. No further soil removal was performed because this historic Pu-238 detection at a depth of 0.5 - 4.0 ft was only marginally above the CO.
MND17-8879	<CO	3.6	This historic detection at a depth of 0 – 0.5 ft is located at the edge of the dig zone. The contaminated soil was removed in the removal action.
19N08	<CO	2.4	Contaminated soil removed. Remaining surface verified as clean (see Appendix C).
SCR660	63	14.2/16.2	Contaminated soil not removed. Excavation was attempted but the effort was ceased when a buried corrugated metal pipe was encountered. Will be removed later as part of PRS 267 removal action. Sample analysis, included in Appendix C, verifies elevated thorium levels in corrugated pipe.
SCR626	83/91/238	4.9/15.6/18.0 /18.7/35.8	Contaminated soil not removed due to proximity to stanchions supporting overhead utilities. Will be removed later as part of PRS 267 removal action.
SO307	<CO	6.46	This Rad Site Survey surface detection, well outside the dig zone, is located to an accuracy of only +/- 25 ft. The detection could not be located by a walk-over survey.

CO: cleanup objective (10^{-5} Risk-Based Guideline Value plus background)



MOUND

Environmental Restoration Geographic Information System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE																					
SHEET	1	2	3	4	5	6															
ISSUE																					

PART CLASSIFICATION

Figure C-1 Historic RAD Detections Surrounding PRS 265

DRAWING CLASSIFICATION: UNCLASSIFIED

SIZE | DRAWING NUMBER: figureg-1.dgn | JOB NUMBER

DWG TYPE: STE | PROJ: ER-GIS | CAGEC | SCALE GRAPHIC | SHEET 1 OF 1

STATUS: MD-REL-03/20/03 | ORIGIN: MSTATION / J

03/20/03		SSP					
		BY	CHKR	ENG	SPEC	APVD	M

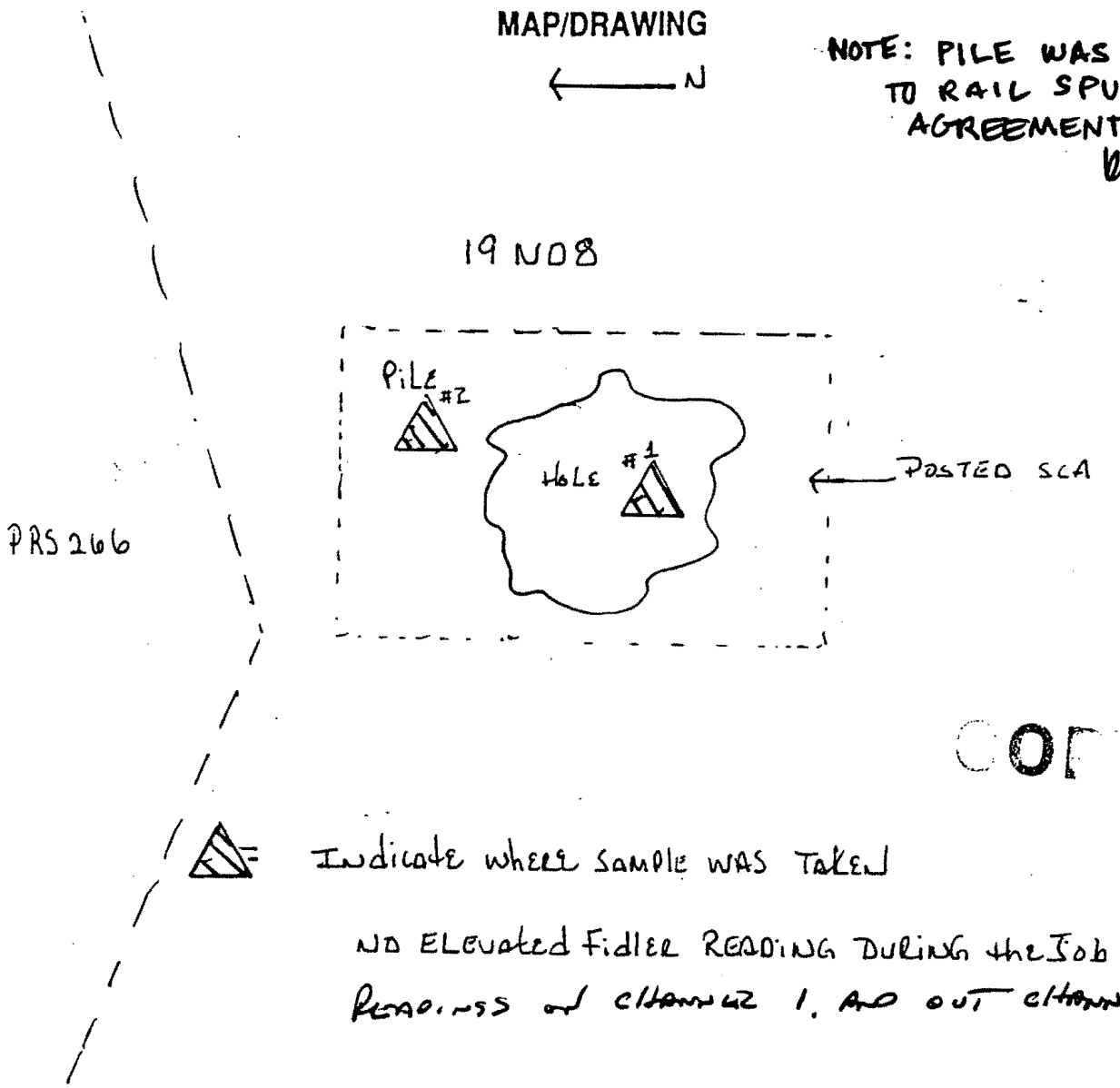
RADIOLOGICAL SURVEY DATA SHEET

LOCATION: (BLDG/AREA/ROOM) PRS 266	SURVEY NO. 02-ER-632
PURPOSE: TOOK TWO SAMPLE FOR VERIFICATION ONLY OUTSIDE OF PRS 266	RWP NO. 1125
	DATE: 9-5-02
	TIME: 0900

MAP/DRAWING

← N

NOTE: PILE WAS TAKEN TO RAIL SPUR PER AGREEMENT.
22 Apr 03



NO ELEVATED FIDLER READING DURING the Job
Readings on channel 1. and out channel

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
FIDLER	3829/3430	7/15/03
N/A	N/A	N/A

Completed by: (Signature)	HP# 6310 5350	Date: 9/9/02
Completed by: (Print Name) Tim Hauro LYNN YOUNG		
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name) See attached		
Reviewed/Approved by: (Signature)	HP# 6144	Date: 9/11/02
Reviewed/Approved by: (Print Name) Charles Finkenbine		

ML-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
N/A				

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
N/A				

COMMENTS: N/A

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (2-98)

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14820
File ID: MG400462.s0
Priority: Yes

Description\Location
PRS-266 Hole 19NO8 #1 Inside

Collector: 6210
Date Received: 9/5/02
Date Collected: 9/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.04	45,000
Cs-137		0.05	0.04	45,000
Pb-210	*	0.76	1	45,000
Ra-226		1.42	0.78	800
Ac-227 (D)	*	0	0.44	40
Th-230	*	0	9.05	800
Th-232 (D)		1.24	0.11	130
Pu-238	*	0.5	52.71	500
Am-241		0.1	0.09	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.07 nCi/g $\Sigma_{Respirator}$ 0.14

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments: U-235 contribution to Ra-226 has been stripped from this sample result using procedure MD-80030 operation 5002, per project RPOC request.

Date: 9/9/02 Counted By: 5801 Analyzed By: 5801 Initials

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14819
File ID: MG301033.s0
Priority: Yes

Description\Location
PRS-266 Hole 19NO8 Pile #2

Collector: 6210
Date Received: 9/5/02
Date Collected: 9/5/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.07	45,000
Cs-137		0.08	0.06	45,000
Pb-210		1.52	1.26	45,000
Ra-226		1.38	1	800
Ac-227 (D)	*	0	0.57	40
Th-230	*	0	11.27	800
Th-232 (D)		0.82	0.2	130
Pu-238	*	0	26.91	500
Am-241	*	0	0.12	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.04 nCi/g $\Sigma_{Respirator}$ 0.09

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

* Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 9/9/02 Counted By: 5801 Analyzed By: 5801 Initials

RADIOLOGICAL SURVEY DATA SHEET

Page 1 of 3 ~~2~~ 8-27-02

LOCATION: (BLDG/AREA/ROOM) Blg 29 Parking Lot + PRS 266/412	SURVEY NO. 02-ER-610
PURPOSE: Job Coverage, staging dirt from PRS 266/412 in North west corner of parking lot.	RWP NO. 1125
	DATE: 8-27-02
	TIME: 1720

MAP/DRAWING

AREA TO South of PRS 266 was cleaned down to FIDLER Readings of ≤ 3K cpm over Background. The North East Corner of the dig site was where we ran into a steel culvert ~12" diameter. This pipe still has FIDLER Readings of 120K cpm on outchannel. A sample of the contents was obtained 8-08-02 and turned into Mobile Lab for analysis. This pipe is still at the dig site (we stopped digging and did not finish taking the drain out.).

PRS 412 - We moved to 412 and started clean-up - After our first 4-6" of removal there was still contamination as detected with the FIDLER. Readings were now higher in many places, ranging from 3-5 kcpm over Background to 250kcpm over out channel Bkg. The highest spot was 500kcpm. We took another 4-6" lift and in South end we only had a few spots left over the 3 kcpm over Bkg target. The North end was getting better (About 250k cpm over Bkg). We stopped for the evening to cover the soil pile at Bld 29 lot and look at the safety of the road situation as we are pretty near the roadway (East side)

COPY

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
= mrem/hr neutron
= air sample number
= swipe number
#/α or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
ud 3030	5817	6-18-03
FIDLER	3763/3942	10-10-02
DE	5404/5325	5-29-03
d 3030	5742	6-21-03
←	N/A	→

Completed by: (Signature) Roy L Mowen C A Hill	HP# 5520 7581	Date: 8-27-02
Completed by: (Print Name) Roy L Mowen C. A. Hill		
Counted by: (Signature) Roy L Mowen C A Hill	HP# 5520	Date: 8-27-02
Counted by: (Print Name) Roy L Mowen C. A. Hill		
Reviewed/Approved by: (Signature)	HP# 6144	Date: 9/5/02
Reviewed/Approved by: (Print Name) Charles Finkenbiny		

L-9620 (2-98)

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
1	22	0	N/A	Valve #4 Tires
2	28	0		↓
3	0	0		Rear
4	28	0		Tires
5	0	0		↓
6	0	0		Rear
7	0	0		Tires
8	0	0		↓
9	28	0		Rear
10	4	0		Tires
11	0	0		↓
12	16	0		Rear
13	0	0		Sample spoon
14	0	0		Trackhoe Bucket
15	0	0		Trackhoe Bucket
16	0	0		Trackhoe Bucket
17	0	0		Culvert
		N	A	

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
		N	A	

COMMENTS: N/A

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (2-98)

SOIL ANALYSIS REPORT

Field Sample ID:
Lab Sample ID: ML14780
File ID: MG101793.s0
Priority: Yes

Description\Location
Drain Pipe Sediment PRS-266

Collector: 5520
Date Received: 8/28/02
Date Collected: 8/28/02

Radionuclide		Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)
Co-60	*	0	0.16	45,000
Cs-137	*	0.13	0.17	45,000
Pb-210	*	0	2.44	45,000
Ra-226		3.64	2.71	800
Ac-227 (D)	*	0	0.9	40
Th-230	*	23.72	24.71	800
Th-232 (D)		24.84	0.4	130
Pu-238	*	23.02	44.72	500
Am-241	*	0	0.27	500

Other Nuclides

Radionuclide	Activity (pCi/g)	MDA	MD-10438 Limit (pCi/g)

Σ_{DOT} 0.10 nCi/g $\Sigma_{Respirator}$ 0.34

$\Sigma_{Respirator}$ <1 indicates soil levels below limit.
Values > or = 1 indicate soil levels exceed limit. Limits based on MD-10438 table 4

Σ_{DOT} 2nCi/g limit, total activity.

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

• Indicates activity < MDA. MDA used in limits calculation

Instrument type: High Purity Germanium

Comments:

Date: 8/28/02 Counted By: 5801 Analyzed By: 5801 Initials

APPENDIX D

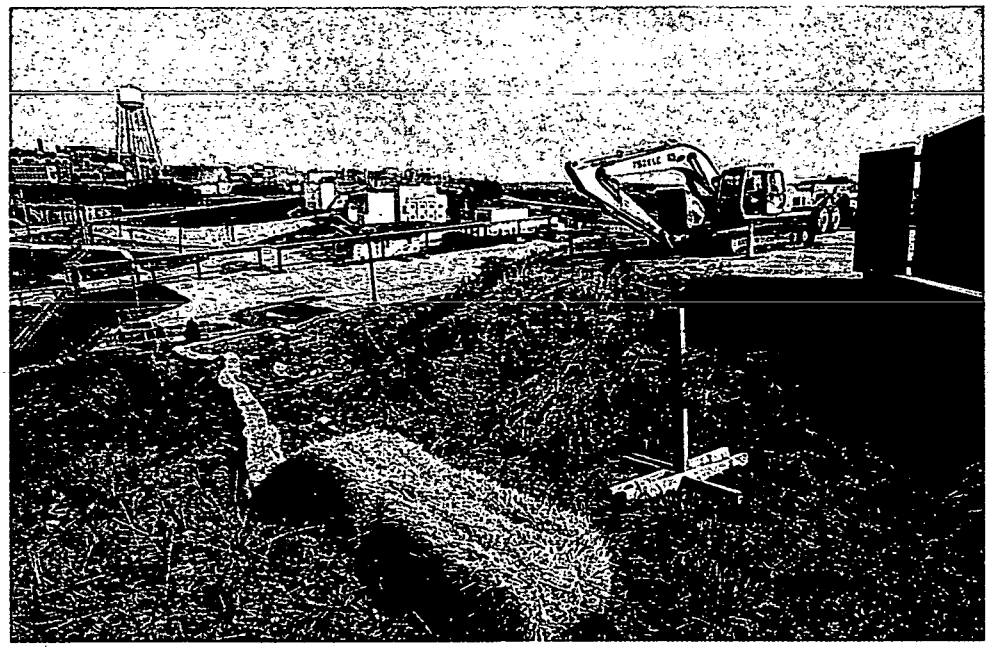
GENERAL MEDIA INFORMATION

(There was no information released
to the media regarding either PRS 266 or PRS 412)

APPENDIX E

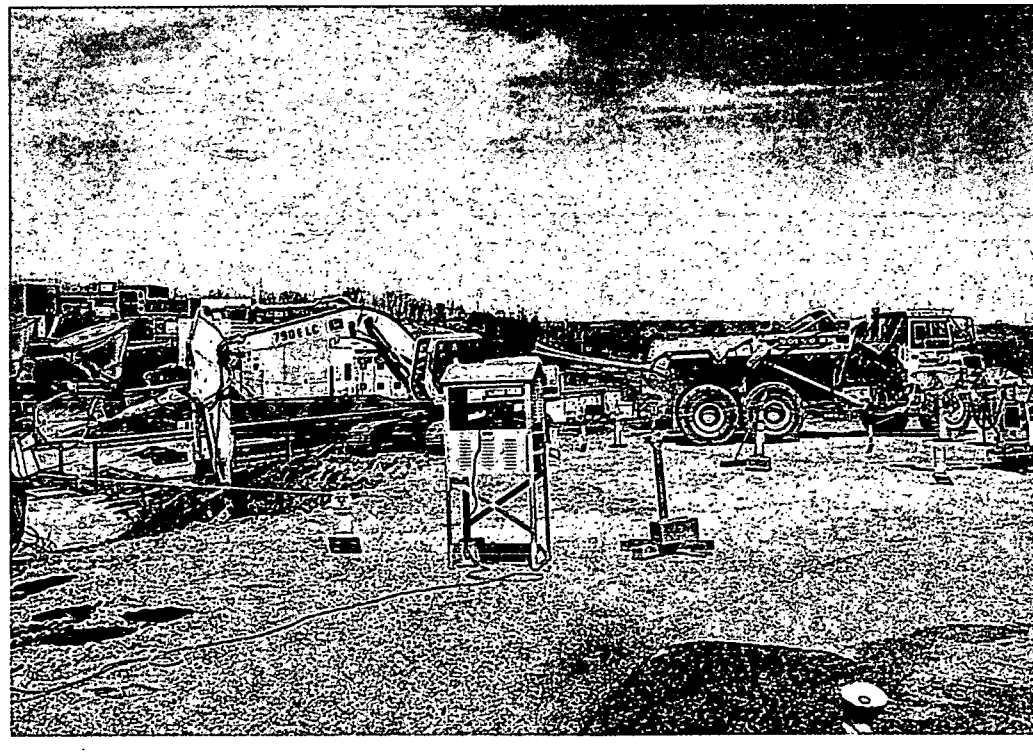
PHOTOGRAPH DOCUMENTATION

PRS 266 PHOTO DOCUMENTATION

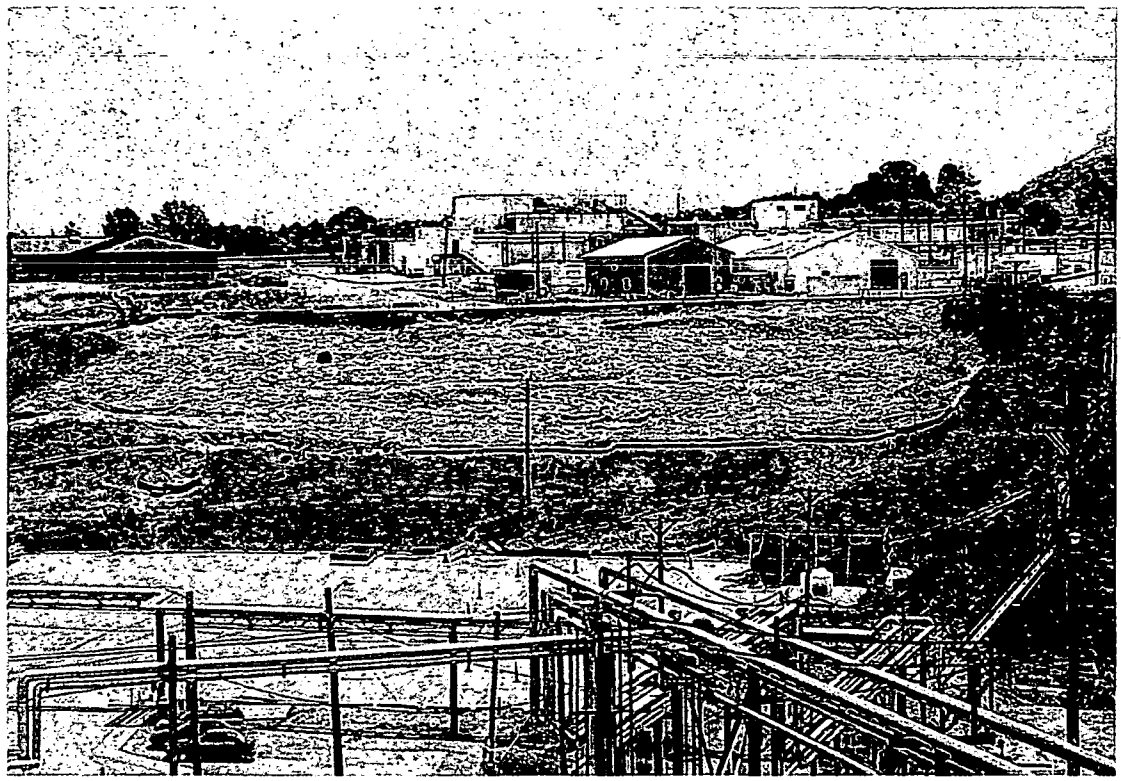


PRS 266 – Ready to initiate excavation. Later in the project plastic silt fence was used in conjunction with straw bales to improve runoff control. This photo was taken from the south end of PRS 266 and looks northwest towards the Mound Main Hill area.

Excavation underway. This photo was taken from the east edge of PRS 266, looking to the west.

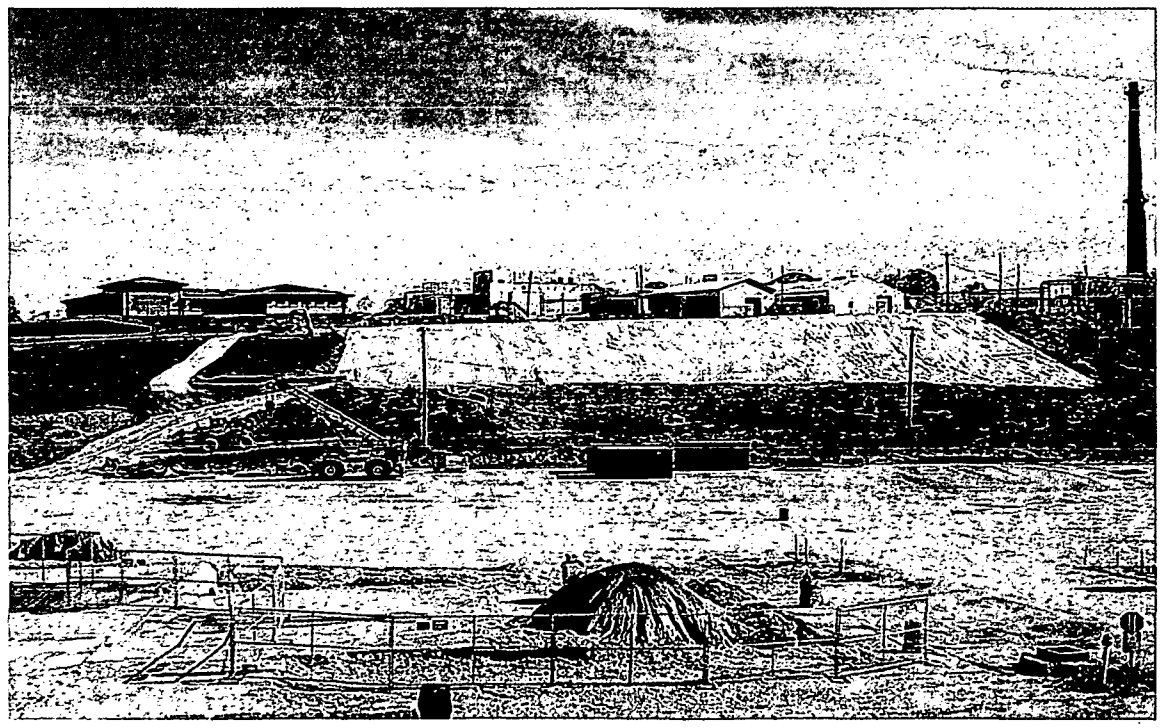


PRS 266 PHOTO DOCUMENTATION

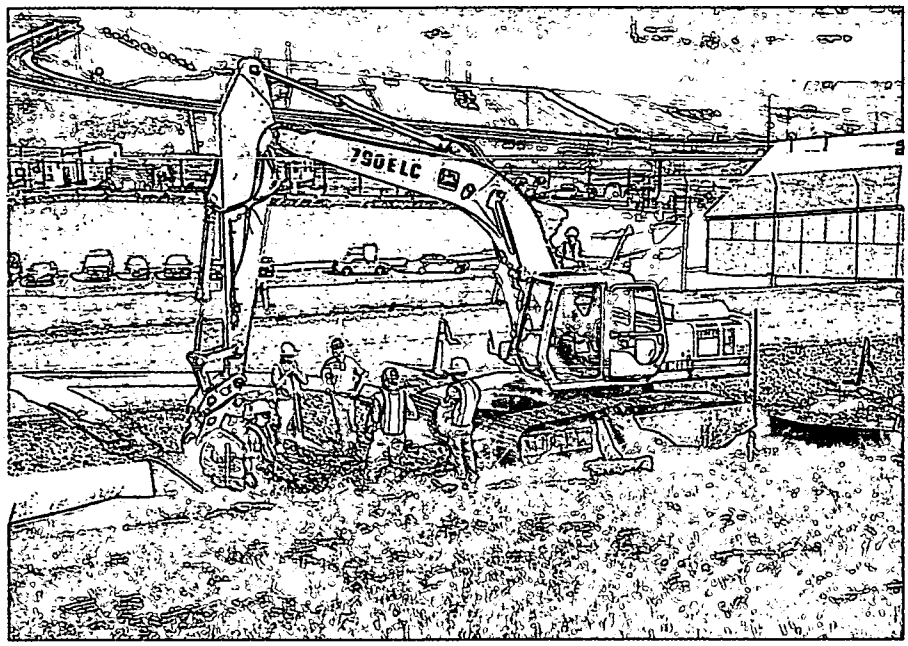


This photo looks east from the area of former Building 98 as excavation nears completion. Plastic silt fence has been added upgrade of straw bales to more effectively control runoff.

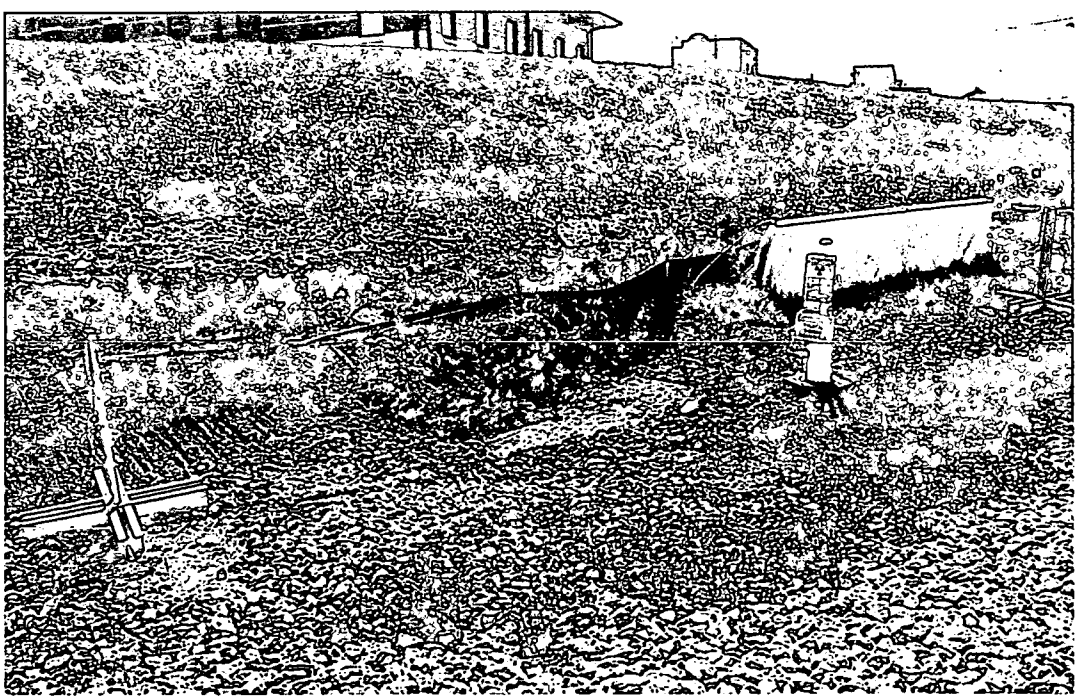
PRS 266 was backfilled with clean soil, graded to conform to adjacent areas, and planted with grass.



PRS 412 PHOTO DOCUMENTATION



Excavation of PRS 412 in progress as viewed from east of the PRS looking to the west.



Hole remaining after excavation of contaminated soil in PRS 412. This view looks to the southeast towards Building 126.