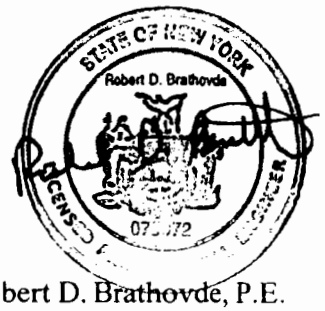
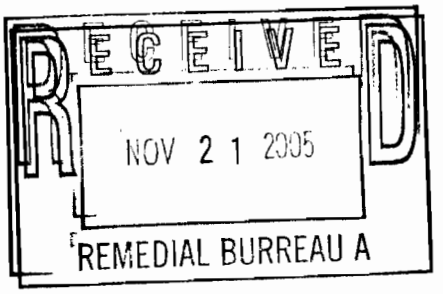
This Investigation Beneath the 100 Building (Survey Units 03, 04 and 05) Report has been reviewed by URS Corporation – New York, and I am in agreement with the conclusions.

URS Corporation – New York





Robert D. Brathovde, P.E.
Engineer of Record

This Investigation Beneath the 100 Building (Survey Units 03, 04 and 05) Report has been reviewed by Professional Radiation Consulting, Inc. (PRCI), and I am in agreement with the conclusions.

Professional Radiation Consulting, Inc.

Shane Brightwell, CHP
President

This Investigation Beneath the 100 Building (Survey Units 03, 04 and 05) Report has been reviewed by Envirocon, Inc. and I am in agreement with the conclusions.

Envirocon, Inc.

Richard Hafner
Radiation Safety Officer

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Appendix C: Boring Logs (Boring Logs are included as Appendix C on the enclosed CD. The enclosed CD includes a complete electronic copy of this report.)

Appendix D: MARSSIM and *COMPASS Software* Evaluations

1.0 INTRODUCTION

This report provides the results, data assessments and conclusions made with respect to the characterization of surface and subsurface soils pursuant to the *Systematic Subsurface Soil Sampling and Analysis Plan, Beneath the 100 Building* (SSSA Plan), dated November 2004 (**Appendix A**) at the Former Sylvania Electric Products Incorporated (Sylvania) facility located at 140, 100 and 70 Cantiague Rock Road, Hicksville, New York (the Site). The New York State Department of Environmental Conservation (NYSDEC) provided comments on the SSSA Plan in a letter dated December 20, 2004. GTE Operations Support Incorporated (GTEOSI) responded to the NYSDEC comments in a letter dated January 20, 2005. The SSSA Plan was approved by NYSDEC in a letter dated January 31, 2005. These letters are included in **Appendix B**.

The areas investigated were designated as Survey Units (SUs) as defined in NUREG 1575, *Multi-Agency Radiation Survey and Site Investigation Manual* (the MARSSIM). The areas designated as SU03, SU04 and SU05 are located in the eastern, central, and western portions, respectively, of the 100 Building (**Figure 1**). This investigation commenced on February 16, 2005 and sampling was completed on April 28, 2005.

Included in this report are sample analytical results, data assessments and conclusions regarding radiological, volatile organic compounds (VOCs) and nickel (Ni) data. Also reported herein are the analytical results for beryllium (Be).

Summaries of related activities in addition to those specified in the SSSA Plan, include:

- 100 Building informal investigation and focused sampling (Section 4.1);
- Historic leach pool (LPH) investigation (Section 4.2);
- Cell 9 investigation (Section 4.3);
- Delineation of soil boring 009 (Section 4.4);
- Additional borings advanced at NYSDEC's request (Section 4.5); and
- Investigation of an underground storage tank (UST) discovered during sampling operations (Section 4.6).

2.0 SCREENING AND SAMPLING

A systematic triangular sampling pattern was used to provide uniform lateral coverage of the SUs. Soil borings were advanced and soil samples were collected continuously, beginning at ground surface (just below the bottom of the concrete slab) to 30 feet below ground surface (bgs). The sampling pattern grid, rows and boring locations are shown in **Figure 1**.

A 2-foot (ft) long split spoon sampling device was advanced for soil retrieval. The recovered soils were screened using a photoionization detector (PID) for VOCs and a 3-inch sodium iodide (NaI) detector for radioactivity prior to sample collection.

The samples designated as sample point (SP) samples were collected at intervals that were vertically staggered by 1 meter (m) (approximately 3 ft). SP samples were collected in 2-ft increments to maximize sample volume. This additional volume of soil was needed to perform

both on-Site and off-Site analyses. Row 1 borings had SP samples at 1 ft, 11 ft and 21 ft; Row 2 borings had SP samples at 4 ft, 14 ft and 24 ft; and Row 3 borings had SP samples at 7 ft, 17 ft and 27 ft. In addition, each boring had an SP sample at 30 ft. Intervals, increments and analyses for each row type are summarized on **Figure 2**.

Samples designated as delineation (DL) samples were collected in 1-ft increments between the staggered SP sample intervals.

Samples were analyzed both on Site to guide investigation and off Site at Severn Trent Laboratories, Inc. (STL) of Earth City, Missouri for final verification. The sample analytical results were compared to the Site cleanup levels specified in the approved *Comprehensive Soil Remediation Program Work Plan, Former Sylvania Electric Products Facility, January 18, 2002 (Revision 5: June 2003)* (Work Plan).

A field geologist classified the soils in general accordance with the Unified Soil Classification System (USCS). Sample descriptions included soil type, color, moisture, and visual observations. Boring Logs are provided in **Appendix C**.

2.1 RADIONUCLIDES

DL samples were homogenized and analyzed on Site by gamma spectroscopy for thorium (Th-232) and uranium (U-238).

SP samples were homogenized and split. One portion was analyzed on Site by gamma spectroscopy and the other portion was sent off Site to STL for alpha spectroscopy analysis. STL performed isotopic thorium analysis using National Academy of Science (NAS)/Department of Energy (DOE) 3004/RP-725 and isotopic uranium analysis using NAS/DOE 3050/RP-725.

2.2 VOLATILE ORGANIC COMPOUNDS

DL samples were collected and analyzed for VOCs if PID readings were greater than 25 parts per million (ppm) or if visual observations (e.g., staining) warranted. DL samples were to be analyzed on Site by Stone Environmental Inc. (SEI) for trichloroethene (TCE) and tetrachloroethene (PCE) using solid phase microextraction and capillary gas chromatography. Based on field screening results as noted in the boring logs (**Appendix C**), there were no DL samples analyzed for VOCs from SU03 and SU05. There were eight field readings greater than 25 ppm on the PID in SU04. These eight locations were sampled and analyzed on Site by SEI for TCE and PCE.

Two samples were collected at each SP interval for VOC analysis. One sample was analyzed on Site by SEI. The other sample was sent off Site to STL for VOC analysis using United States Environmental Protection Agency (USEPA) Method 8260B.

2.3 METALS

DL samples were collected for Ni analysis at alternating 1-ft intervals between SP samples. If sample recovery was insufficient, analysis could not be performed. In such an event, a sample for Ni was collected at the next available interval and at alternate intervals thereafter. Ni DL samples were analyzed on Site using x-ray fluorescence spectroscopy (XRF) by SEI.

Two samples were collected at each SP interval for metals analysis. One sample was analyzed on Site by SEI for Ni. The other sample was sent off Site to STL for analysis of Ni and Be using USEPA Method 6010B.

2.4 SAMPLING SUMMARY

The SSSA Plan was designed to allow flexibility to respond to field conditions (e.g., boring relocation and insufficient sample recovery). Fifteen soil borings had to be moved from their proposed locations due to limited access (e.g., utilities and obstructions). The relocations were within the limits specified in the SSSA Plan. Five of the 15 soil borings could not be relocated within the limits specified in the SSSA Plan due to obstructions and were eliminated (soil borings 017 and 021 in SU03; and soil borings 015, 016 and 020 in SU05). These obstructions, each designated as an "interference area" in **Figure 1**, consisted of areas inaccessible to large equipment. Each soil boring location was surveyed using the laser positioning system (LPS).

In SU03 a total of 21 soil borings were advanced resulting in the recovery of 84 SP samples, 465 radionuclide DL samples and 252 Ni DL samples. In SU04 a total of 22 soil borings were advanced resulting in the recovery of 85 SP samples, 517 radionuclide DL samples, 8 VOC DL samples and 264 Ni DL samples. In SU05 a total of 21 soil borings were advanced resulting in the recovery of 84 SP samples, 505 radionuclide DL samples and 257 Ni DL samples.

3.0 ANALYTICAL RESULTS/ASSESSMENTS

The results of the DL and SP sample analyses from SU03, SU04 and SU05 are summarized in **Table 1**. The results of the SP sample analyses from SU03, SU04 and SU05 are summarized in **Table 2**. Statistical assessments of radiological off-Site SP data were performed with applicable methods specified in the MARSSIM and analytical results were also compared to Site cleanup levels. VOC and Ni results were compared to the Site cleanup levels. Be results were compared to the NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4046 values and other published literature sources for New York State soils. These assessments are described herein.

3.1 RADIOLOGICAL

A statistical assessment of radiological SP data (with the exception of samples from the final depth) was performed using the MARSSIM methods. SP samples at the final depth (30 ft) were compared to the Site cleanup levels in the Work Plan.

3.1.1 Survey Unit Assessment

Each SU was characterized vertically at 3-m (10-ft) staggered depths. Since the MARSSIM provides characterization and final verification guidance primarily on surface soils, each 3-m (10-ft) SU interval was evaluated independently as if that SU interval was representative of an undulating soil surface. For the purposes of the assessment, the 0- to 3-m (0- to 10-ft) SU interval was labeled SU Interval 1, the 3- to 6-m (11- to 20-ft) was SU Interval 2, and the 6- to 9-m (21- to 30-ft) was SU Interval 3. Thus, for the 21 borings advanced in SU03, 63 samples were used in the MARSSIM assessment of the three SU intervals. For the 22 borings advanced in SU04, 62 samples were used in the MARSSIM assessment of the three SU intervals. For the 21 borings advanced in SU05, 63 samples were used in the MARSSIM assessment of the three SU intervals.

The assessment of the SU interval data sets was performed using the *COMPASS Software*. The *COMPASS Software* allows the user to set up the analytical data for all radiological analytes in a readable input file format, and then evaluate the data set using the applicable MARSSIM methods. The *COMPASS Software* evaluations of each of the three SU intervals are in **Appendix D**.

The Work Plan specifies Site cleanup levels for three radionuclides (Th-232, U-234 and U-238). The MARSSIM addresses evaluation of multiple radionuclides by employing the Sum of Ratios (SOR) Method. First, for SP samples, the ratio of the concentration for each radionuclide to its corresponding Site cleanup level is calculated. The ratios for all three radionuclides are then summed for a single sample. This results in a single unitless SOR value for each sample. The samples in a given SU interval are then evaluated using the statistical methods inherent in the *COMPASS Software*.

3.1.1.1 SU03 Assessment

Evaluation of the DL and SP samples in SU03 indicates that the concentrations are below the radionuclide Site cleanup levels. In soil boring 010 at 4 ft below the bottom of the concrete slab disturbed material (fill) is above the Site cleanup level for Th-232 and U-238 (10.99 picoCuries per gram [pCi/g] and 65.18 J pCi/g respectively). In soil boring 019 at 2 ft below the bottom of the concrete slab the fill is above the Site cleanup level for U-238 (50.34 J pCi/g). Two soil borings (014 and 022) at 4 ft below the bottom of the concrete slab had concentrations of U-238 approaching 50 percent of the Site cleanup levels.

3.1.1.2 SU04 Assessment

Evaluation of the DL and SP samples in SU04 indicates that the concentrations are below the radionuclide Site cleanup levels. In soil boring 020 at 6 ft below the bottom of the concrete slab the fill is above the Site cleanup level for U-238 (78.88 pCi/g). Two soil borings (020 and 021) from depths 0 to 5 ft below the bottom of the concrete slab had concentrations of U-238 approaching 50 percent of the Site cleanup level.

3.1.1.3 SU05 Assessment

Evaluation of the DL and SP samples in SU05 indicates that the concentrations are below the radionuclide Site cleanup levels. Two soil boring (004 and 012) from depths of 6 to 7 ft below the bottom of the concrete slab had concentrations of Th-232 approaching 50 percent of the Site cleanup level.

3.1.2 Decision Analysis

The decision analysis for the radiological analytical results was based on the default null hypothesis recommended in the MARSSIM, which states: "The residual radioactivity in the survey unit exceeds the release criterion." The MARSSIM "Sign Test" (assuming no contribution from background radionuclides) was used to reject the null hypothesis. When the null hypothesis is rejected, the SU passes and qualifies for release. If the null hypothesis cannot be rejected, further investigation or remedial action may be necessary.

As stated earlier, each of the three intervals was evaluated independently in each SU. Therefore, there were a total of nine independent evaluations (three intervals within each SU). The following table summarizes the results of the *COMPASS Software* evaluations.

SU	SU Interval	Depth Range (ft)	# Samples (N)		Sum of Ratios		Null Hypothesis	SU Interval Status
			Required	Actual	Avg	Max		
03	1	0-10	13	21	0.46	0.91	Rejected	Passes
	2	11-20	13	21	0.10	0.40	Rejected	Passes
	3	21-30	13	21	0.10	0.33	Rejected	Passes
04	1	0-10	13	18	0.32	0.62	Rejected	Passes
	2	11-20	13	22	0.12	0.45	Rejected	Passes
	3	21-30	13	22	0.10	0.36	Rejected	Passes
05	1	0-10	13	21	0.28	0.59	Rejected	Passes
	2	11-20	13	21	0.09	0.14	Rejected	Passes
	3	21-30	13	21	0.09	0.23	Rejected	Passes

The evaluation of the SP analytical results for SU03, SU04 and SU05 using the *COMPASS Software* indicated that the average concentrations of Th-232, U-234 and U-238 in the soils beneath the 100 Building are below the Site cleanup levels.

3.2 VOLATILE ORGANIC COMPOUNDS

The VOC analytical results of TCE and PCE were compared to the Site cleanup levels of 0.7 milligrams per kilogram (mg/kg) and 1.82 mg/kg, respectively. The following table provides the highest concentrations of VOC sample analytical results from **Table 1**.

SU	Depth Range (ft)	TCE (mg/kg)	PCE (mg/kg)
03	0-10	0.110 J	5.1 J
	11-20	0.0045J	0.0020 J
	21-30	0.0012 J	0.0011 J
04	0-10	0.0016 J	0.032 J
	11-20	0.201	0.900 J
	21-30	0.206	0.720
05	0-10	0.0028 U	0.019 J
	11-20	0.0028 U	0.0028 U
	21-30	0.0028 U	0.0028 U

Notes: U – not detected J – estimated value

Based on a review of DL and SP analytical data, TCE was not detected above the Site cleanup level. PCE was detected above the Site cleanup level in one soil boring, 013 (4 ft bgs), located in SU03 at an estimated concentration of 5.1 J mg/kg.

3.3 METALS

The Ni analytical results were compared to the Site cleanup level (560 mg/kg) while the Be results were compared to NYSDEC TAGM #4046 values (0.16 mg/kg or Site background) and other published literature sources for New York State soils. The following table provides the highest concentrations of Ni and Be from **Table 1**.

SU	Depth Range (ft)	Ni (mg/kg)	Be (mg/kg)
03	0-10	190	0.85
	11-20	5.1	0.30 J
	21-30	4.9	0.43 J
04	0-10	330	0.75
	11-20	41.4 J	0.37 J
	21-30	3.2 J	0.29 J
05	0-10	68.3 J	0.43 J
	11-20	4.0 J	0.30 J
	21-30	6.2	0.31 J

Based on a review of DL and SP analytical data, Ni was not detected above the Site cleanup level. Several samples had concentrations of Be above the TAGM value of 0.16 mg/kg. However, Be concentrations in New York soils are reported to range between 0 to 7 mg/kg[1, 2]. The Be soil results are interpreted to be within the reported range for soils in New York State.

4.0 ADDITIONAL INVESTIGATIONS

Prior to and concurrent with the Systematic Subsurface Soil Sampling and Analysis investigation, the following investigations beneath the 100 Building were performed.

- An informal investigation and focused sampling was performed beneath the 100 Building prior to the SU characterizations. The results of the investigation are included in Section 4.1 of this report.
- An investigation was performed concurrent with the SU characterizations to identify and delineate contaminants associated with suspected LPHs beneath the 100 Building pursuant to the *Systematic Subsurface Soil Sampling and Analysis Plan Historic Leach Pools, September 2004, Revision 1: October 2004* (LPH Plan). The results of the investigation are summarized in Section 4.2 of this report.
- An investigation was performed concurrent with the SU characterizations to identify and delineate contaminants that originated from the LPHs removed during the remediation in Cell 9 south of the 100 Building. The results of the investigation are summarized in Section 4.3 of this report.
- Additional sampling was conducted in SU04, soil boring 009, to further delineate residual PCE concentrations identified during the SU investigation. The results of the investigation are summarized in Section 4.4 of this report.
- Additional borings were requested by NYSDEC to supplement the SSSA Plan grid. The results of the investigation are summarized in Section 4.5 of this report.
- An investigation was performed relating to a UST that was encountered in SU03. The results of the investigation are summarized in Section 4.6 of this report.

4.1 100 BUILDING INFORMAL INVESTIGATION AND FOCUSED SAMPLING

The objective of the informal investigation was to assess the potential contaminants beneath the 100 Building and determine if further investigation was warranted. This investigation, conducted from March 25, 2004 to April 9, 2004, included reviewing historic documents and investigating areas where residual concentrations of U-238 and PCE may be present. The focused sampling of these areas was conducted in and around suspected historic features including building footprints, building floor drains, catch basins and leach pools (**Figure 3**). The boring locations were selected in the areas of:

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[1] Schacklette, H.T., and J.G. Boerngen. 1984. *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States*. US Geological Survey. Pub. 1270.

[2] Dragun, J. and A. Chiasson. 1991. *Elements in North American Soils*. Hazardous Materials Control Resources Institute. Greenbelt, Maryland

- Suspected historic floor drains (subcell G16, soil borings DL12, DL17 and DL18 and subcell G18 soil borings DL01 and DL02);
- Suspected historic catch basins (subcell H18, soil boring DL15 and subcell H19, soil boring DL09);
- LPH01 (subcell I11, soil boring DL03);
- LPH03 (subcells K14, soil boring DL14 and subcell L14, soil borings DL05 and DL19);
- LPH04 (subcell M14, soil boring DL06);
- LPH05 (subcell N15, soil boring DL07 and subcell O15, soil boring DL16); and
- LPH06 (subcell O18, soil borings DL10 and DL13).

Three locations outside the footprint of the historic building were investigated:

- Subcell C12, soil boring DL21;
- Subcell D13, soil boring DL20; and
- Subcell I19, soil boring DL11.

A total of 19 soil borings were advanced in these locations. Hand augering was used to collect the samples in 1-ft increments. Trenching was also used to collect samples. The recovered soils and exposed soil surfaces were screened using a PID for VOCs and a NaI detector for radioactivity prior to sample collection.

The samples were analyzed for Th-232 and U-238 using the on-Site gamma spectroscopy system and for TCE and PCE by SEI analytical service. The SP samples were analyzed off Site by STL for radionuclides, VOCs and Ni.

The soils directly below the bottom of the concrete slab to an estimated 6 to 7 ft bgs (excluding the LPH locations) were classified as fill. This layer of soil may have been placed within the footprint of the 100 Building as construction fill material.

Of the 19 soil borings investigated, 11 had Th-232 and U-238 above the Site cleanup levels and 13 at 50% of the Site cleanup levels. Three of the soil borings had TCE or PCE above the Site cleanup levels and two soil borings had Ni above the Site cleanup level. **Table 3** provides the analytical results of this investigation.

4.2 HISTORIC LEACH POOLS

Pursuant to the LPH Plan there were 14 suspected LPHs investigated, seven of which were expected to be located either partially or entirely beneath the 100 Building: three in SU03 (LPH03 in subcell L14, LPH04 in subcell M14 and LPH05 in subcell N15), two in SU04 (LPH01 and LPH02 in subcell I11), and two in SU05 (LPH12 in subcell A19 and LPH13 in subcell Z68). **Figure 4** and **Table 4** provide the anticipated locations and the analytical results, respectively, for the seven LPHs beneath the 100 Building.

Of the seven LPHs beneath the 100 Building, LPH03 and LPH04 had contaminants above the Site cleanup levels. The remaining LPHs did not have contaminants above the Site cleanup levels.

4.2.1 LPH03

LPH03 had PCE above Site cleanup levels at 6 and 16 ft bgs. Field screening for VOCs prompted DL sample collection in the central boring location (soil boring 01) at 6 ft bgs for on-Site VOC analysis. The results indicated a PCE concentration of 1.982 mg/kg. Field screening of soils collected in the other four boring locations in LPH03 surrounding soil boring 01 did not indicate residual PCE at 6 ft bgs. Additionally, field screening for VOCs prompted DL sample collection in soil boring 05 at 16 ft bgs for on-Site VOC analysis. The results indicated a PCE concentration of 12.370 mg/kg. Field screening of soils collected in the soil boring locations to the east of soil boring 05 did not indicate residual PCE.

4.2.2 LPH04

LPH04 had U-238 and PCE above Site cleanup levels in the central boring location (soil boring 01) at 22 ft bgs. The on-Site gamma spectroscopy analysis results for the radiological DL sample had U-238 at 79.12 pCi/g. Field screening for VOCs prompted DL sample collection for on-Site VOC analysis. The results had a PCE concentration of 6.364 mg/kg. Radiological DL samples and VOC field screening of soils collected in the other four soil boring locations in LPH04 surrounding soil boring 01 did not indicate the presence of residual U-238 or PCE at 22 ft bgs.

4.3 CELL 9 INVESTIGATION

The investigation of contaminants in soils remaining after Cell 9 remediation resulted in the advancement of additional soil borings inside the 100 Building. Of the 15 borings advanced in the 100 Building during the Cell 9 investigation, five had contaminants above Site cleanup levels.

Soil boring DL01 in subcell G18 had an estimated concentration of Ni at 921 J at 3 ft bgs. Soil boring DL01 in subcell G18 also had U-238 at 70.01 pCi/g and Ni at 728 mg/kg at 7 ft bgs. This layer of soil may have been placed within the footprint of the 100 Building as construction fill material. Soil boring DL01 in subcell D17 had U-238 at 53.55 pCi/g at 46 ft bgs. Soil boring DL02 in subcell D18 had U-238 at 75.37 pCi/g at 47 ft bgs. Soil boring DL03 in subcell D18 had an estimated concentration of U-238 at 66.77 J pCi/g at 47 ft bgs. Soil boring DL03 in subcell E18 had U-238 at 52.75 pCi/g at 47 ft bgs. **Figure 5** and **Table 5** provide the soil boring locations and analytical results, respectively, for the soil borings advanced during the Cell 9 investigation beneath the 100 Building.

Residual U was encountered in subcells D17, D18 and E18 at approximately 47 ft bgs during the Cell 9 investigation. Additional DL samples collected above and below 47 ft bgs had residual U-238 below the Site cleanup level.

4.4 SU04, SOIL BORING LOCATION 009 DELINEATION

Low level VOCs were detected during field screening of samples in SU04, soil boring location 009, from 16 to 30 ft bgs. Subsequent on-Site analysis indicated residual TCE and PCE concentrations. The lateral and vertical extent of TCE and PCE in surrounding soil was delineated by advancing six additional soil borings. Subsequent on-Site analysis identified one sample, in subcell G13 from soil boring DL01 (2 ft bgs) with TCE (1.202 mg/kg) above Site cleanup levels. This layer of soil may have been placed within the footprint of the 100 Building as construction fill material. There were no other radiological, VOC or Ni analytical results above Site cleanup levels encountered during this delineation. The soil boring locations are shown on **Figure 1.** The analytical results for these soil borings are provided in **Table 6**.

4.5 NYSDEC-REQUESTED ADDITIONAL BORINGS

Based on a December 20, 2004, NYSDEC letter and subsequent discussions with NYSDEC staff, ten additional soil borings were requested to further investigate shallow soils beneath the 100 Building. After review of analytical data adjacent to proposed soil borings DECA, DECE, DECG, and DECJ, these four soil borings were found to be redundant with existing, planned borings and therefore eliminated. Additionally, based on the discovery of a UST during the advancement of soil boring DECH, NYSDEC verbally requested two additional soil borings (designated as DECK and DECL). The locations of these eight soil borings are shown on **Figure 1,** labeled DECB (subcell I19), DECC (subcell K17), DECD (subcell J19), DECF (subcell N12), DECH (subcell L17), DECI (subcell M19), DECK (subcell L16), and DECL (subcell L17). Of the eight soil borings requested by NYSDEC, seven had contaminants above the Site cleanup level for PCE. The analytical results for these soil borings are provided in **Table 7**.

4.6 UNDERGROUND STORAGE TANK

On April 29, 2005, while advancing soil boring DECH (subcell L17), a UST was encountered approximately 5.5 ft below the bottom of the concrete slab. The UST was labeled UST H. The UST is approximately 5 ft in diameter and 15 ft long with an approximate capacity of 2,500 gallons. The UST contained an estimated 150 gallons of liquid and 250 gallons of sludge. Samples were collected from the liquid (4-inch thick) and sludge (10-inch thick) and sent to STL for analysis.

The liquid and the sludge contained PCE and TCE above Site cleanup levels with substantially more PCE than TCE and cis-1,2 dichloroethene. Also detected were U, various metals and PCB Arochlor® 1260. The UST appeared intact, with no visible punctures, signs of leakage, or product release.

Due to the location of the UST, it could not be removed without affecting the building integrity. As a result, on May 4, 2005, with the concurrence of NYSDEC, an emulsifier (Liqui-Sorb® 200-gel polymer) was added to the UST to solidify and thereby immobilize the contents and prevent a potential release. See **Figure 1** for the location and orientation of UST H.

At the request of NYSDEC, two soil borings were advanced adjacent to the UST. Soil boring DECK was advanced approximately 6 ft north of DECH and DECL was advanced approximately 8 ft south of DECH. Soil samples were collected to 15 ft below the concrete slab at both locations. The analytical results for these soil borings are provided in **Table 7**. The UST contents analytical results were submitted to NYSDEC on June 3, 2005.

5.0 CONCLUSIONS

The evaluation of the SP radiological analytical results for SU03, SU04 and SU05 using the *COMPASS Software* indicated that the average concentrations of Th-232, U-234 and U-238 in the soils beneath the 100 Building are below the Site cleanup levels. Additionally, the SP analytical results from SU03, SU04 and SU05 for TCE and Ni are below the Site cleanup levels. However, the following were identified:

- Although the SUs passed the *COMPASS Software* evaluation, there were three DL sample locations (SU03, soil boring 010 at 4 ft, SU03, soil boring 019, at 2 ft and SU04, soil boring 020 at 6 ft) where one or more radiological constituent concentrations was above the Site cleanup levels.
- One SP sample result (SU03, soil boring 013 at 4 ft bgs) was above the Site cleanup level for PCE.
- Several locations had Be in excess of the TAGM values but are within the reported range for soils in New York State.

Additional investigations conducted indicated the following:

- The informal investigation and focused sampling indicated the soils associated with the historic features beneath the 100 Building had contaminants above Site cleanup levels for radionuclides and VOCs;
- Of the seven suspected LPHs investigated, two had contaminants above Site cleanup levels for radionuclides and PCE. The results of the LPH investigation are detailed in the *Systematic Subsurface Sampling and Analysis Report, Historic Leach Pools*;
- Of the 15 soil borings advanced beneath the 100 Building in the Cell 9 investigation following the remediation of Cell 9, four had contaminants above Site cleanup levels for radionuclides and one had contaminants above Site cleanup levels for Ni;
- Of the 6 soil borings advanced in SU04, soil boring location 009, one had a concentration of TCE above the Site cleanup level;
- Of the eight soil borings advanced as requested by NYSDEC, seven had contaminants above Site cleanup levels for PCE; and
- UST H appeared intact with no related contaminants to surrounding soils.

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	001	26649	0.0	0.86		1.18 J				
03	001	26650	1.0	0.84 J		7.16			<100	
03	001	26651	3.0	0.06		2.85			<100	
03	**001**	**26658**	**4.0**	**0.45**	**0.85**	**0.42**	**0.0025 U**	**0.0025 U**	**2.3 J**	**0.14 J**
03	001	26659	6.0	0.42 J		0.82				
03	001	26660	7.0	0.83		3.21			<100	
03	001	26661	8.0	1.09		4.52				
03	001	26662	9.0	0.46 J		0.47			<100	
03	001	26667	10.0	0.11 UJ		1.69 J				
03	001	26668	11.0	0.19		0.39			<100	
03	001	26671	12.0	0.20		0.74 J				
03	001	26672	13.0	0.35 J		0.45			<100	
03	**001**	**26673**	**14.0**	**0.306**	**0.51**	**0.382**	**0.0026 U**	**0.0026 U**	**1.3 J**	**0.17 J**
03	001	26674	16.0	0.28		1.45				
03	001	26675	17.0	0.23 J		1.40 J			<100	
03	001	26676	19.0	0.22		0.84 J			<100	
03	001	26678	20.0	0.25		0.52				
03	001	26679	21.0	0.35 J		1.33			<100	
03	001	26691	23.0	0.32		0.25			<100	
03	**001**	**26698**	**24.0**	**0.120**	**0.173**	**0.178**	**0.0027 U**	**0.0027 U**	**1.5 J**	**0.14 J**
03	001	26699	26.0	0.27 J		1.52				
03	001	26700	27.0	0.15		0.38 J			<100	
03	001	26707	28.0	0.15		0.93 J				
03	001	26708	29.0	0.23		0.97			<100	
03	**001**	**26709**	**30.0**	**0.094 J**	**0.121**	**0.136**	**0.0026 U**	**0.0026 U**	**1.4 J**	**0.15 J**
03	002	26411	0.0	1.18 J		2.87			<100	
03	**002**	**26414**	**1.0**	**0.81**	**9.8**	**6.50**	**0.0025 U**	**0.0027 U**	**6.8**	**0.34 J**
03	002	26421	3.0	1.15		1.58 J				
03	002	26422	4.0	1.03 J		11.58			<100	
03	002	26427	5.0	0.82 J		7.01				
03	002	26428	6.0	1.16		2.62 J			<100	
03	002	26433	8.0	0.61 J		1.33 J			<100	
03	002	26436	9.0	1.14 J		4.23				
03	002	26437	10.0	0.32 J		0.35			<100	
03	**002**	**26446**	**11.0**	**0.144**	**0.209**	**0.186**	**0.0026 U**	**0.0026 U**	**1.3 J**	**0.13 J**
03	002	26451	13.0	0.48 J		0.71				
03	002	26452	14.0	0.33 J		0.64			<100	
03	002	26459	15.0	0.30		1.05 J				
03	002	26460	16.0	1.11 J		2.49 J			<100	
03	002	26467	18.0	0.24 J		0.57 J			<100	
03	002	26478	20.0	0.06 UJ		1.43 J			<100	
03	**002**	**26479**	**21.0**	**0.119**	**0.158**	**0.199**	**0.00075 J**	**0.0025 U**	**1.6 J**	**0.087 J**
03	002	26484	23.0	0.27		0.41 UJ				
03	002	26485	24.0	0.28		0.39 J			<100	
03	002	26486	25.0	0.36 J		0.70				
03	002	26498	26.0	0.05 UJ		0.48			<100	
03	002	26499	27.0	0.25 J		0.92 J				
03	002	26505	28.0	0.07		0.47 UJ			<100	
03	002	26506	29.0	0.29 J		0.77 J				
03	**002**	**26504**	**30.0**	**0.218**	**0.153**	**0.172**	**0.0012 J**	**0.0026 U**	**2.3 J**	**0.16 J**
03	003	26522	0.0	1.03		3.17 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	003	26531	1.0	0.84		2.67 J				
03	003	26532	2.0	0.99		3.57 J			<100	
03	003	26533	3.0	0.81		1.60 J				
03	003	26534	4.0	0.69		1.39 J			<100	
03	003	26535	5.0	0.47		0.49 UJ				
03	003	26536	6.0	0.33		0.96 J			<100	
03	**003**	**26539**	**7.0**	**0.87**	**0.55**	**0.72**	**0.0026 U**	**0.0026 U**	**2.9 J**	**0.14 J**
03	003	26540	10.0	1.08		1.99 J			<100	
03	003	26549	12.0	0.40		0.37			<100	
03	003	26556	13.0	0.40		1.41 J				
03	003	26557	14.0	0.62		1.92 J			<100	
03	003	26562	15.0	0.27		0.43				
03	003	26563	16.0	0.24		1.32 J			<100	
03	**003**	**26566**	**17.0**	**0.151**	**0.215**	**0.188**	**0.0026 U**	**0.0026 U**	**4.8**	**0.19 J**
03	003	26567	20.0	0.23		0.83 J			<100	
03	003	26584	21.0	0.22		0.45 J				
03	003	26585	22.0	0.29		1.45 J			<100	
03	003	26586	24.0	0.33		1.23 J			<100	
03	003	26593	25.0	0.36		1.08 J				
03	003	26594	26.0	0.27		0.28			<100	
03	**003**	**26617**	**27.0**	**0.207**	**0.171**	**0.202**	**0.0026 U**	**0.0026 U**	**1.7 J**	**0.13 J**
03	003	26618	29.0	0.31		1.90				
03	**003**	**26619**	**30.0**	**0.148**	**0.218**	**0.186**	**0.0027 U**	**0.0027 U**	**2.3 J**	**0.15 J**
03	004	26722	0.0	0.94		3.78			<100	
03	**004**	**26723**	**1.0**	**0.95**	**9.2**	**5.87**	**0.0076 J**	**0.042**	**10.1**	**0.55 J**
03	004	26730	3.0	0.96		3.07				
03	004	26731	4.0	0.40		1.20 J			<100	
03	004	26744	5.0	0.49		4.06 J				
03	004	26745	6.0	0.08		1.16 J			<100	
03	004	26764	8.0	0.52		1.11 J			<100	
03	004	26765	9.0	1.31		2.36 J				
03	004	26766	10.0	0.36		1.27 J			<100	
03	**004**	**26779**	**11.0**	**0.137**	**0.290**	**0.253**	**0.0025 R**	**0.0025 U**	**1.1 J**	**0.082 J**
03	004	26780	13.0	0.52		2.84				
03	004	26781	14.0	0.31		1.44			<100	
03	004	26792	15.0	0.27		0.65 J				
03	004	26793	16.0	0.21		0.91 J			<100	
03	004	26796	17.0	0.29		0.68 J				
03	004	26797	18.0	0.32		1.71			<100	
03	004	26798	19.0	0.24		0.85 J				
03	004	26799	20.0	0.20		0.46			<100	
03	**004**	**26813**	**21.0**	**0.177**	**0.151**	**0.155**	**0.0025 R**	**0.0025 U**	**1.1 J**	**0.088 J**
03	004	26814	23.0	0.29		1.80				
03	004	26823	24.0	NS		NS			<100	
03	004	26824	25.0	0.24		1.40 J				
03	004	26826	26.0	0.24		0.50			<100	
03	004	26827	27.0	0.18		0.68 J				
03	004	26828	28.0	0.29		0.37 J			<100	
03	004	26829	29.0	0.30 J		1.36				
03	**004**	**26832**	**30.0**	**0.143**	**0.212**	**0.246**	**0.0025 R**	**0.0025 U**	**1.6 J**	**0.11 J**
03	005	26833	0.0	0.78		0.73 UJ			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	005	26836	2.0	1.22		11.42			<100	
03	005	26842	4.0	1.14		12.50			<100	
03	005	26843	6.0	1.28		12.29			<100	
03	**005**	**26856**	**7.0**	**0.66**	**2.32**	**1.82**	**0.0028 U**	**0.0028 U**	**11.9**	**0.85**
03	005	26857	9.0	1.04 J		2.47				
03	005	26858	10.0	0.36		1.13			<100	
03	005	26863	11.0	0.41 J		0.96				
03	005	26864	12.0	0.27		0.84 J			<100	
03	005	26871	13.0	0.35		1.99				
03	005	26872	14.0	0.35 J		2.00			<100	
03	005	26885	15.0	0.35 J		0.77 J				
03	005	26886	16.0	0.26		0.94 J			<100	
03	**005**	**26896**	**17.0**	**0.168**	**0.192**	**0.144**	**0.0025 U**	**0.0025 U**	**2.3 J**	**0.24 J**
03	005	26897	19.0	0.16 J		0.65				
03	005	26898	20.0	0.25 J		0.64 J			<100	
03	005	26901	21.0	0.34		1.62 J				
03	005	26902	22.0	0.24		0.36			<100	
03	005	26905	23.0	0.48		2.34				
03	005	26906	24.0	0.17 J		0.34			<100	
03	005	26918	25.0	0.31		0.65				
03	005	26919	26.0	0.23 J		0.74 J			<100	
03	**005**	**26926**	**27.0**	**0.152**	**0.173**	**0.122**	**0.0025 U**	**0.0025 U**	**1.5 J**	**0.21 J**
03	005	26927	29.0	0.24		0.69 J				
03	**005**	**26936**	**30.0**	**0.162**	**0.197**	**0.186**	**0.0025 U**	**0.0025 U**	**2.7 J**	**0.32 J**
03	006	27072	1.0	0.93		2.41			<100	
03	006	27073	3.0	0.99 J		4.81 J			<100	
03	**006**	**27089**	**4.0**	**0.81**	**6.33**	**5.31**	**0.0016 J**	**0.022 J**	**9.2**	**0.36 J**
03	006	27090	7.0	0.69		5.61			<100	
03	006	27091	9.0	1.10		4.05			<100	
03	006	27113	11.0	0.33		0.74 J			<100	
03	006	27114	13.0	0.28		3.15 J			<100	
03	**006**	**27118**	**14.0**	**0.206**	**0.291**	**0.286**	**0.0025 U**	**0.0025 U**	**1.9 J**	**0.26 J**
03	006	27130	16.0	0.21		0.29 J				
03	006	27131	17.0	0.24		1.05 J			<100	
03	006	27132	19.0	0.27		0.55 J			<100	
03	006	27133	20.0	0.26 J		1.22 J				
03	006	27134	21.0	0.19		0.31 J			<100	
03	006	27135	23.0	0.07 UJ		0.36 J			<100	
03	**006**	**27166**	**24.0**	**0.256**	**0.54**	**0.51**	**0.0026 U**	**0.0026 U**	**1.4 J**	**0.17 J**
03	006	27167	26.0	0.22		0.71 J				
03	006	27168	27.0	0.16 J		0.35 J			<100	
03	006	27169	28.0	0.29		0.56				
03	006	27170	29.0	0.04		1.08			<100	
03	**006**	**27171**	**30.0**	**0.429**	**0.64**	**0.58**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.19 J**
03	007	27724	0.0	0.68		2.13			<100	
03	007	27725	1.0	1.27		13.71				
03	007	27726	2.0	0.98		13.19			<100	
03	007	27734	3.0	0.86		1.46 J				
03	007	27735	4.0	1.08		9.31			<100	
03	007	27736	5.0	0.50		3.60				
03	007	27737	6.0	0.53		0.83 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	**007**	**27738**	**7.0**	**1.17**	**2.05**	**1.65**	**0.0025 U**	**0.0025 UJ**	**4.0 J**	**0.27 J**
03	007	27744	9.0	0.04		1.23 J				
03	007	27745	10.0	1.06		2.74			<100	
03	007	27746	11.0	0.06		0.55				
03	007	27747	12.0	0.31		2.22			<100	
03	007	27748	13.0	0.07		0.76				
03	007	27749	14.0	0.27		1.25			<100	
03	007	27750	15.0	0.20		0.54 J				
03	007	27751	16.0	0.23		1.48			<100	
03	**007**	**27752**	**17.0**	**0.240**	**0.323**	**0.297**	**0.0026 U**	**0.0026 U**	**0.95 J**	**0.083 J**
03	007	27753	19.0	0.25		2.22				
03	007	27754	20.0	0.24		1.71			<100	
03	007	27755	21.0	0.21		1.03				
03	007	27756	22.0	0.19		0.41			<100	
03	007	27757	23.0	0.07		1.07 J				
03	007	27758	24.0	0.06		0.70			<100	
03	007	27759	25.0	0.27		0.58 J				
03	007	27760	26.0	0.30 J		2.21			<100	
03	**007**	**27761**	**27.0**	**0.273**	**0.220**	**0.236**	**0.0025 U**	**0.0025 U**	**1.4 J**	**0.13 J**
03	007	27762	29.0	0.30		1.08				
03	**007**	**27766**	**30.0**	**0.174**	**0.170**	**0.211**	**0.00048 J**	**0.00065 J**	**2.4 J**	**0.13 J**
03	008	27624	0.0	0.97		14.06				
03	008	27625	1.0	0.70		1.94			<100	
03	008	27627	2.0	1.06		11.89				
03	008	27628	3.0	0.79		6.72			<100	
03	**008**	**27626**	**4.0**	**0.95**	**1.06**	**1.00**	**0.00095 J**	**0.020 U**	**8.7**	**0.51 J**
03	008	27643	6.0	0.94		6.08				
03	008	27644	7.0	0.12		1.33 J			<100	
03	008	27645	8.0	0.67		1.95 J				
03	008	27646	9.0	0.85		4.78			<100	
03	008	27655	11.0	0.34		2.67			<100	
03	008	27656	12.0	0.39		0.44				
03	008	27657	13.0	0.41		4.99			<100	
03	**008**	**27658**	**14.0**	**0.254**	**0.79**	**0.47**	**0.0025 U**	**0.0025 UJ**	**1.7 J**	**0.16 J**
03	008	27659	16.0	0.29		1.13				
03	008	27660	17.0	0.03		0.66 J			<100	
03	008	27673	19.0	0.04		1.16			<100	
03	008	27674	20.0	0.34		1.97				
03	008	27675	21.0	0.16		1.24			<100	
03	008	27676	22.0	0.31		1.82 J				
03	008	27677	23.0	0.19		1.35 J			<100	
03	**008**	**27678**	**24.0**	**0.231**	**0.422**	**0.258**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.13 J**
03	008	27679	26.0	0.19		0.28				
03	008	27680	27.0	0.04		0.91 J			<100	
03	008	27695	28.0	0.04		0.78 J				
03	008	27696	29.0	0.24		0.48 J			<100	
03	**008**	**27697**	**30.0**	**0.142**	**0.233**	**0.198**	**0.0025 U**	**0.0025 UJ**	**1.4 J**	**0.19 J**
03	009	27400	0.0	0.67		0.85 UJ			<100	
03	**009**	**27404**	**1.0**	**0.68**	**5.79**	**3.92**	**0.0013 J**	**0.019**	**18.5**	**0.43 J**
03	009	27408	3.0	0.70		3.26 J				
03	009	27405	4.0	0.94		13.39 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	009	27409	5.0	0.99		13.62 J				
03	009	27410	6.0	0.81		7.93 J			<100	
03	009	27411	7.0	0.66		2.24 J				
03	009	27412	8.0	0.61		2.37 J			<100	
03	009	27413	9.0	0.42		3.43 J				
03	009	27414	10.0	0.44		2.63 J			<100	
03	**009**	**27426**	**11.0**	**0.378**	**1.86**	**1.49**	**0.0025 U**	**0.0025 U**	**1.7 J**	**0.22 J**
03	009	27427	13.0	0.31		1.94				
03	009	27428	14.0	0.31 J		1.97 J			<100	
03	009	27429	15.0	0.30		2.58				
03	009	27430	16.0	0.26 J		1.45			<100	
03	009	27434	17.0	0.25		0.63 J				
03	009	27435	18.0	0.19		0.62			<100	
03	009	27437	19.0	0.20 J		0.24				
03	009	27438	20.0	0.03		0.84 J			<100	
03	**009**	**27439**	**21.0**	**0.196**	**0.422**	**0.447**	**0.0025 U**	**0.0025 U**	**1.1 J**	**0.11 J**
03	009	27443	23.0	0.18		1.67				
03	009	27444	24.0	0.26		0.54 J			<100	
03	009	27445	25.0	0.16		0.93 J				
03	009	27446	26.0	0.27 J		0.88			<100	
03	009	27447	27.0	0.18		0.47 J				
03	009	27448	28.0	0.15		1.20			<100	
03	009	27449	29.0	0.38 J		0.61 J				
03	**009**	**27452**	**30.0**	**0.212**	**0.71**	**0.67**	**0.0026 U**	**0.0026 U**	**2.5 J**	**0.20 J**
03	010	27234	0.0	0.86		0.89 J			<100	
03	010	27243	1.0	0.76		2.73				
03	010	27244	2.0	1.02		8.00 J			<100	
03	010	27254	3.0	1.20		19.51				
03	010	27255	4.0	10.99		65.18 J			<100	
03	**010**	**27256**	**7.0**	**0.62**	**2.59**	**2.66**	**0.0025 U**	**0.0060**	**2.7 J**	**0.26 J**
03	010	27259	10.0	0.29		2.64			<100	
03	010	27262	11.0	0.08		3.14 J				
03	010	27263	12.0	0.32		1.06 J			<100	
03	010	27268	13.0	0.52		3.95				
03	010	27269	14.0	0.27		4.11			<100	
03	010	27270	15.0	0.26		1.51				
03	010	27271	16.0	0.39		1.07 J			<100	
03	**010**	**27280**	**17.0**	**0.107**	**0.429**	**0.401**	**0.0025 U**	**0.0025 U**	**1.1 J**	**0.041 J**
03	010	27285	19.0	0.05		0.59 J				
03	010	27286	20.0	0.39		0.36 UJ			<100	
03	010	27287	21.0	0.17		1.07 J				
03	010	27288	22.0	0.07		2.14 J			<100	
03	010	27289	24.0	0.22		1.18 J			<100	
03	010	27294	25.0	0.24		2.02 J				
03	010	27295	26.0	0.30		0.62 J			<100	
03	**010**	**27298**	**27.0**	**0.329**	**0.35**	**0.221**	**0.0026 U**	**0.0026 U**	**1.2 J**	**0.51 U**
03	010	27299	29.0	0.32		0.67 J				
03	**010**	**27300**	**30.0**	**0.291**	**0.229**	**0.237**	**0.0025 U**	**0.0025 U**	**1.5 J**	**0.081 J**
03	011	27854	-1.0	0.68		1.05 J				
03	011	27855	0.0	0.66		1.70 J			<100	
03	**011**	**27856**	**1.0**	**0.58**	**4.92**	**3.37**	**0.00053 J**	**0.0017 J**	**26.0**	**0.31 J**

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	011	27857	3.0	0.50		7.56				
03	011	27858	4.0	0.63		2.63 J			<100	
03	011	27859	5.0	1.25		8.04				
03	011	27860	6.0	0.68		5.12			<100	
03	011	27861	7.0	0.73		5.98				
03	011	27862	8.0	0.84		8.18 J			<100	
03	011	27863	9.0	0.19		1.27 J				
03	011	27864	10.0	0.37		2.08			<100	
03	**011**	**27867**	**11.0**	**0.277**	**0.61**	**0.53**	**0.0026 U**	**0.0026 U**	**2.3 J**	**0.23 J**
03	011	27871	13.0	0.31		1.59				
03	011	27872	14.0	0.32		2.75			<100	
03	011	27873	15.0	0.25		1.87				
03	011	27874	16.0	0.32 J		1.91			<100	
03	011	27875	17.0	0.26		1.53 J				
03	011	27876	18.0	0.20		1.67			<100	
03	011	27883	19.0	0.39		2.47				
03	011	27884	20.0	0.41		1.96			<100	
03	**011**	**27885**	**21.0**	**0.160**	**0.77**	**0.57**	**0.0025 U**	**0.0025 U**	**1.3 J**	**0.19 J**
03	011	27889	23.0	0.36		2.56				
03	011	27891	24.0	0.23		2.24			<100	
03	011	27892	25.0	0.24		3.95				
03	011	27893	26.0	0.43		2.82			<100	
03	011	27894	27.0	0.24		4.39 J				
03	011	27895	28.0	0.22		2.10			<100	
03	011	27896	29.0	0.18		2.34				
03	**011**	**27912**	**30.0**	**0.152**	**1.46**	**1.30**	**0.0025 U**	**0.0025 U**	**2.1 J**	**0.21 J**
03	012	27458	0.0	0.78		3.92			<100	
03	012	27459	1.0	0.41 J		2.21				
03	012	27460	2.0	0.85		10.81			<100	
03	012	27465	3.0	0.41		0.93 J				
03	012	27466	4.0	0.98		0.89			<100	
03	012	27471	5.0	0.49 J		0.62 J				
03	012	27472	6.0	0.54		1.02 J			<100	
03	**012**	**27474**	**7.0**	**0.59**	**0.49**	**0.359**	**0.0025 U**	**0.00062 J**	**3.7 J**	**0.23 J**
03	012	27475	9.0	0.29 J		0.94 J				
03	012	27476	10.0	0.06		1.64			<100	
03	012	27485	11.0	0.31		0.93 J				
03	012	27486	12.0	0.43		1.22 J			<100	
03	012	27487	14.0	0.03 UJ		1.31			<100	
03	012	27495	15.0	0.25		1.66				
03	012	27496	16.0	0.25		0.71			<100	
03	**012**	**27497**	**17.0**	**0.126**	**0.138**	**0.118**	**0.0025 U**	**0.0025 U**	**0.71 J**	**0.080 J**
03	012	27498	19.0	0.23 J		0.68 J				
03	012	27499	20.0	0.21		0.57 J			<100	
03	012	27504	21.0	0.22		1.27 J				
03	012	27505	22.0	0.30 J		0.95			<100	
03	012	27510	23.0	0.18 J		0.54 J				
03	012	27511	24.0	0.18 J		1.63			<100	
03	012	27523	25.0	0.06 UJ		0.63 J				
03	012	27524	26.0	0.25		0.46			<100	
03	**012**	**27533**	**27.0**	**0.201**	**0.190**	**0.193**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.13 J**

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	012	27534	29.0	0.24		0.31				
03	**012**	**27535**	**30.0**	**0.130**	**0.170**	**0.157**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.13 J**
03	013	27316	0.0	0.85		1.97 J				
03	013	27317	1.0	1.09		3.68 J			<100	
03	013	27319	2.0	0.66		1.61 J				
03	013	27320	3.0	0.87		4.64 J			<100	
03	**013**	**27321**	**4.0**	**0.82**	**6.74**	**6.38**	**0.110 J**	**5.1 J**	**34.3 J**	**0.36 J**
03	013	27325	6.0	0.52		0.95 UJ				
03	013	27326	7.0	1.04		22.15 J			108	
03	013	27327	9.0	0.76		6.07 J			<100	
03	013	27328	10.0	0.36		1.32 J				
03	013	27329	11.0	0.23		0.80 J			<100	
03	013	27331	12.0	0.25		0.79 J				
03	013	27332	13.0	0.29		1.23 J			<100	
03	**013**	**27336**	**14.0**	**0.184**	**0.80**	**0.84**	**0.0026 U**	**0.00068 J**	**1.9 J**	**0.19 J**
03	013	27337	16.0	0.30		0.50 J				
03	013	27338	17.0	0.21		0.76 J			<100	
03	013	27348	18.0	0.28		2.40 J				
03	013	27349	19.0	0.19		1.25 J			<100	
03	013	27350	20.0	0.37		2.20 J				
03	013	27351	21.0	0.07		0.59 UJ			<100	
03	013	27352	22.0	0.31		1.00 J				
03	013	27353	23.0	0.03		1.23 J			<100	
03	**013**	**27366**	**24.0**	**0.268**	**0.258**	**0.212**	**0.0025 U**	**0.0011 J**	**1.5 J**	**0.13 J**
03	013	27371	26.0	0.16		1.25 J				
03	013	27372	27.0	0.29		1.00 J			<100	
03	013	27380	28.0	0.07		0.31 UJ				
03	013	27381	29.0	0.02		0.56 J			<100	
03	**013**	**27382**	**30.0**	**0.224**	**0.241**	**0.128**	**0.0025 U**	**0.0025 U**	**1.6 J**	**0.15 J**
03	014	28109	-1.0	0.94		2.56				
03	014	28110	0.0	0.84		17.61			<100	
03	014	28111	1.0	0.50		2.46				
03	014	28112	2.0	1.00		2.44			<100	
03	014	28119	4.0	1.75		28.62			79.1 J	
03	014	28132	5.0	1.05		16.59				
03	014	28133	6.0	0.99		19.39			<100	
03	**014**	**28134**	**7.0**	**0.41**	**4.97**	**5.12**	**0.00059 J**	**0.0025 U**	**3.9 J**	**0.15 J**
03	014	28135	9.0	0.06		5.55				
03	014	28136	10.0	0.30		3.49			<100	
03	014	28137	11.0	0.25		3.02				
03	014	28138	12.0	0.29		2.91			<100	
03	014	28139	13.0	0.31		1.96				
03	014	28140	14.0	0.33		2.19			<100	
03	014	28146	15.0	0.05		9.80				
03	014	28147	16.0	0.26		0.83 J			<100	
03	**014**	**28152**	**17.0**	**0.136**	**0.78**	**0.71**	**0.00045 J**	**0.0025 U**	**1.7 J**	**0.12 J**
03	014	28153	20.0	0.19		1.47			<100	
03	014	28161	21.0	0.25		2.76				
03	014	28162	22.0	0.19		1.28 J			<100	
03	014	28166	23.0	0.34		2.27				
03	014	28167	24.0	0.03		0.93 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	014	28168	25.0	0.22		1.01				
03	014	28169	26.0	0.24		1.44			<100	
03	**014**	**28170**	**27.0**	**0.164**	**0.61**	**0.61**	**0.0025 U**	**0.0025 U**	**1.4 J**	**0.13 J**
03	014	28174	29.0	0.21		0.91				
03	**014**	**28175**	**30.0**	**0.153**	**0.307**	**0.347**	**0.0025 U**	**0.0025 U**	**2.0 J**	**0.21 J**
03	015	27939	-1.0	0.73		1.38			<100	
03	015	27942	0.0	0.84		8.03				
03	015	27943	1.0	0.81		2.66			139	
03	015	27944	2.0	0.81		6.02				
03	015	27945	3.0	0.86		2.37			<100	
03	**015**	**27958**	**4.0**	**0.79**	**9.0**	**8.0**	**0.0055**	**0.390 U**	**37.8**	**0.39 J**
03	015	27959	6.0	0.09		0.89				
03	015	27960	7.0	0.77		1.80 J			<100	
03	015	27965	8.0	0.48		1.74				
03	015	27966	9.0	0.11		2.75 J			<100	
03	015	27967	10.0	0.40		3.09				
03	015	27968	11.0	0.25		2.22			<100	
03	015	27969	12.0	0.36		2.04				
03	015	27970	13.0	0.35		2.26			<100	
03	**015**	**27974**	**14.0**	**0.123**	**1.06**	**0.94**	**0.0025 U**	**0.0025 U**	**5.1**	**0.20 J**
03	015	27975	16.0	0.20		1.40 J				
03	015	27976	17.0	0.38		1.47 J			<100	
03	015	27980	18.0	0.26		2.04				
03	015	27981	19.0	0.23		1.63			<100	
03	015	27982	21.0	0.27		0.86 J			<100	
03	015	27987	22.0	0.33		1.98				
03	015	27988	23.0	0.30		2.28 J			<100	
03	**015**	**27998**	**24.0**	**0.191**	**0.431**	**0.468**	**0.0025 U**	**0.0025 U**	**3.6 J**	**0.43 J**
03	015	27999	26.0	0.25		0.87 J				
03	015	28000	27.0	0.20		0.63 J			<100	
03	015	28001	28.0	0.40		0.79 J				
03	015	28002	29.0	0.32		0.57 J			<100	
03	**015**	**28011**	**30.0**	**0.162**	**0.320**	**0.268**	**0.0025 U**	**0.0025 U**	**3.2 J**	**0.26 J**
03	016	27565	-1.0	0.83 J		5.43				
03	016	27566	0.0	0.64 J		1.96 J			42.7 J	
03	**016**	**27567**	**1.0**	**0.87**	**8.6**	**7.9**	**0.0027 R**	**0.0027 R**	**5.6**	**0.28 J**
03	016	27568	3.0	1.39 J		2.27				
03	016	27569	4.0	1.50 J		6.83			<100	
03	016	27570	5.0	0.77 J		9.33				
03	016	27571	6.0	0.46 J		2.14			<100	
03	016	27572	7.0	0.05 UJ		1.80 J				
03	016	27573	8.0	1.20 J		4.44			<100	
03	016	27574	9.0	0.05 UJ		1.53				
03	016	27575	10.0	0.12 UJ		1.88			<100	
03	**016**	**27576**	**11.0**	**0.142**	**0.82**	**0.76**	**0.0025 U**	**0.0020 J**	**1.4 J**	**0.14 J**
03	016	27577	13.0	0.28 J		2.75				
03	016	27578	14.0	0.41 J		1.60			<100	
03	016	27579	15.0	0.27 J		1.35				
03	016	27580	16.0	0.25 J		2.31			<100	
03	016	27581	17.0	0.32 J		2.22				
03	016	27582	18.0	0.22 J		1.83			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	016	27588	19.0	0.30 J		1.01 J				
03	016	27589	20.0	0.25 J		1.95			<100	
03	**016**	**27590**	**21.0**	**0.148**	**0.52**	**0.62**	**0.0025 U**	**0.0025 U**	**0.81 J**	**0.081 J**
03	016	27595	23.0	0.25 J		0.84				
03	016	27600	24.0	0.31 J		1.30			<100	
03	016	27601	25.0	0.33 J		1.35				
03	016	27602	26.0	0.17 J		1.41			<100	
03	016	27603	27.0	0.38 J		0.60				
03	016	27604	28.0	0.23 J		1.25 J			<100	
03	016	27605	29.0	0.26 J		1.85				
03	**016**	**27606**	**30.0**	**0.203**	**0.236**	**0.284**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.12 J**
03	018	28018	-1.0	1.00		14.40				
03	018	28019	0.0	1.07		1.80 J			190	
03	**018**	**28020**	**1.0**	**0.61**	**2.10**	**2.08**	**0.0026 U**	**0.0066**	**21.5**	**0.36 J**
03	018	28021	3.0	1.06		2.62				
03	018	28022	4.0	0.87		3.11 J			<100	
03	018	28024	5.0	0.75		0.88 J				
03	018	28025	6.0	0.79		4.58			<100	
03	018	28028	7.0	0.53		1.43 J				
03	018	28029	8.0	0.83		2.62 J			<100	
03	018	28034	9.0	0.32		5.50				
03	018	28035	10.0	0.39		1.36 J			<100	
03	**018**	**28041**	**11.0**	**0.174**	**8.2**	**8.9**	**0.0025 U**	**0.0025 U**	**10.3**	**0.30 J**
03	018	28042	13.0	0.42		6.43				
03	018	28043	14.0	0.27		6.32			<100	
03	018	28055	15.0	0.03		6.31				
03	018	28056	16.0	0.34		5.15 J			<100	
03	018	28057	18.0	0.25		5.81			<100	
03	018	28058	19.0	0.22		4.57				
03	018	28059	20.0	0.39		6.61 J			<100	
03	**018**	**28060**	**21.0**	**0.447**	**4.31**	**4.18**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.22 J**
03	018	28072	23.0	0.28		3.32				
03	018	28075	24.0	0.32		3.53			<100	
03	018	28076	25.0	0.04		1.87 J				
03	018	28077	26.0	0.03		2.39			<100	
03	018	28078	27.0	0.04		5.16				
03	018	28079	28.0	0.16		4.44 J			<100	
03	018	28080	29.0	0.21		4.17				
03	**018**	**28081**	**30.0**	**0.194**	**2.58**	**2.57**	**0.0025 U**	**0.0025 U**	**4.9**	**0.24 J**
03	019	28200	-1.0	1.37		3.58 J				
03	019	28201	0.0	0.78 J		2.24 J			<100	
03	019	28208	1.0	0.97 J		7.44				
03	019	28209	2.0	0.92		50.34 J			<100	
03	019	28210	3.0	0.94		13.95 J				
03	019	28211	4.0	1.44 J		4.52			<100	
03	019	28214	5.0	0.75		12.83 J				
03	019	28215	6.0	1.17		1.41 J			<100	
03	**019**	**28216**	**7.0**	**1.59**	**1.22**	**1.36**	**0.0011 J**	**0.0010 J**	**10.4**	**0.62**
03	019	28224	9.0	0.86		3.88 J				
03	019	28225	10.0	0.31 J		3.69			<100	
03	019	28226	11.0	0.29		1.13 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	019	28227	12.0	0.38		0.63 UJ			<100	
03	019	28228	13.0	0.43 J		0.65 J				
03	019	28229	14.0	0.34		1.50 J			<100	
03	019	28239	15.0	0.34		1.62				
03	019	28240	16.0	0.20		2.52			<100	
03	**019**	**28241**	**17.0**	**0.139**	**0.279**	**0.296**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.058 J**
03	019	28242	19.0	0.06		0.81 J				
03	019	28243	20.0	0.25		1.24			<100	
03	019	28258	21.0	0.26		1.21				
03	019	28259	22.0	0.30		1.98 J			<100	
03	019	28260	24.0	0.38		2.00			<100	
03	019	28261	25.0	0.20		2.59				
03	019	28262	26.0	0.23		0.50			<100	
03	**019**	**28263**	**27.0**	**0.178**	**0.313**	**0.235**	**0.0025 U**	**0.0025 U**	**2.9 J**	**0.12 J**
03	019	28269	29.0	0.20		1.15				
03	**019**	**28270**	**30.0**	**0.217**	**0.383**	**0.394**	**0.0026 U**	**0.0026 U**	**3.0 J**	**0.24 J**
03	020	28327	1.0	0.83		2.00 J			<100	
03	020	28328	3.0	1.01 J		5.28			<100	
03	**020**	**28329**	**4.0**	**0.74**	**3.60**	**3.23**	**0.00082 J**	**0.034**	**4.4**	**0.25 J**
03	020	28330	6.0	0.77		2.41 J				
03	020	28331	7.0	0.87		0.99 J			<100	
03	020	28332	8.0	0.51 J		2.49				
03	020	28333	9.0	0.30		1.24 J			<100	
03	020	28334	10.0	0.32		1.23 J				
03	020	28335	11.0	0.46 J		1.42 J			<100	
03	020	28339	12.0	0.31		1.91 J				
03	020	28340	13.0	0.45		0.87 J			<100	
03	**020**	**28341**	**14.0**	**0.271**	**0.51**	**0.411**	**0.0025 U**	**0.0025 U**	**1.7 J**	**0.18 J**
03	020	28343	16.0	0.35 J		0.74 J				
03	020	28344	17.0	0.24		0.42 UJ			<100	
03	020	28345	18.0	0.37		0.95 J				
03	020	28346	19.0	0.07 UJ		1.79			<100	
03	020	28347	20.0	0.26		1.74 J				
03	020	28348	21.0	0.27		0.64 UJ			<100	
03	020	28349	22.0	0.08 UJ		3.01				
03	020	28350	23.0	0.36		0.52 UJ			<100	
03	**020**	**28351**	**24.0**	**0.266**	**0.185**	**0.219**	**0.0026 U**	**0.0026 U**	**1.3 J**	**0.093 J**
03	020	28360	26.0	0.29		1.67 J				
03	020	28361	27.0	0.22 J		1.05 J			<100	
03	020	28362	28.0	0.19		1.28 J				
03	020	28363	29.0	0.24		1.18 J			<100	
03	**020**	**28364**	**30.0**	**0.163**	**0.186**	**0.165**	**0.0025 U**	**0.0025 U**	**2.1 J**	**0.12 J**
03	022	28274	0.0	0.67		2.60			<100	
03	**022**	**28275**	**1.0**	**0.73**	**16.2**	**16.3**	**0.0052 U**	**0.087 U**	**105**	**0.43 J**
03	022	28276	4.0	1.03		46.33			<100	
03	022	28279	6.0	0.91		12.49			<100	
03	022	28280	7.0	0.35		0.70 J				
03	022	28281	8.0	0.82		1.60			<100	
03	022	28282	9.0	0.66		0.67				
03	022	28283	10.0	0.42		1.00 J			<100	
03	**022**	**28284**	**11.0**	**0.177**	**0.381**	**0.304**	**0.0025 U**	**0.0025 U**	**2.0 J**	**0.15 J**

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	022	28285	13.0	0.23		2.16				
03	022	28286	14.0	0.36		1.63			<100	
03	022	28287	15.0	0.06		0.42				
03	022	28288	16.0	0.27		0.62 J			<100	
03	022	28289	18.0	0.19		1.19			<100	
03	022	28290	19.0	0.28		0.59				
03	022	28291	20.0	0.22		1.55			<100	
03	**022**	**28300**	**21.0**	**0.240**	**0.139**	**0.209**	**0.0025 U**	**0.0025 U**	**1.0 J**	**0.12 J**
03	022	28310	23.0	0.26		1.09				
03	022	28311	24.0	NS		NS			<100	
03	022	28312	25.0	0.14		0.34				
03	022	28313	26.0	0.33		1.66			<100	
03	022	28314	27.0	0.18		1.84 J				
03	022	28315	28.0	0.25		1.74 J			<100	
03	022	28316	29.0	0.24		1.23 J				
03	**022**	**28317**	**30.0**	**0.229**	**0.212**	**0.197**	**0.0026 U**	**0.0026 U**	**2.6 J**	**0.18 J**
03	023	28372	0.0	1.13 J		3.08			<100	
03	023	28373	2.0	0.70		14.26 J			<100	
03	023	28374	3.0	0.86		1.36 UJ				
03	023	28375	4.0	0.84		2.43 J			<100	
03	023	28380	5.0	0.80		1.73 J				
03	023	28381	6.0	0.75		0.92 J			<100	
03	**023**	**28385**	**7.0**	**0.75**	**0.58**	**0.55**	**0.0025 U**	**0.0025 U**	**2.5 J**	**0.13 J**
03	023	28386	9.0	0.45 J		1.47 J				
03	023	28387	10.0	0.25		0.58 UJ			<100	
03	023	28388	11.0	0.32		0.80 J				
03	023	28389	12.0	0.24		0.80 J			<100	
03	023	28390	14.0	0.16		1.01 J			<100	
03	023	28391	15.0	0.19 J		1.00 J				
03	023	28392	16.0	0.08		0.65 UJ			<100	
03	**023**	**28393**	**17.0**	**0.208**	**0.246**	**0.209**	**0.0025 U**	**0.0025 U**	**2.3 J**	**0.13 J**
03	023	28394	19.0	0.32		0.65 J				
03	023	28395	20.0	0.05 UJ		0.79 J			<100	
03	023	28397	22.0	0.20 J		1.46 J			<100	
03	023	28399	23.0	0.40		1.70 J				
03	023	28400	24.0	0.28 J		1.52			<100	
03	023	28401	25.0	0.19		1.26				
03	023	28402	26.0	0.32		1.62			<100	
03	**023**	**28405**	**27.0**	**0.151**	**0.131**	**0.157**	**0.0026 U**	**0.0026 U**	**3.6 J**	**0.14 J**
03	023	28406	29.0	0.17		0.32				
03	**023**	**28411**	**30.0**	**0.258**	**0.236**	**0.247**	**0.0025 U**	**0.0025 U**	**4.8**	**0.17 J**
04	001	28904	-1.0	0.65		1.09 J			<100	
04	001	28905	0.0	0.87		3.48				
04	001	28906	1.0	1.04		1.02			<100	
04	001	28907	2.0	0.51		1.66 J				
04	001	28908	3.0	1.10		1.67 J			<100	
04	**001**	**28913**	**4.0**	**0.363**	**0.332**	**0.369**	**0.0028 U**	**0.0028 U**	**2.5 J**	**0.17 J**
04	001	28923	6.0	0.65		1.55 J				
04	001	28924	7.0	0.45		1.44			<100	
04	001	28925	8.0	0.07		1.61 J				
04	001	28926	9.0	0.36		0.64 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	001	28931	10.0	0.61		1.05 J				
04	001	28932	11.0	0.25 J		1.28			<100	
04	001	28937	12.0	0.31		1.23				
04	001	28938	13.0	0.29		0.61 J			<100	
04	**001**	**28939**	**14.0**	**0.283**	**0.144**	**0.225**	**0.0026 U**	**0.0026 U**	**1.6 J**	**0.15 J**
04	001	28940	16.0	0.34		1.06 J				
04	001	28941	17.0	0.24		0.47			<100	
04	001	28954	18.0	0.31		0.66 J				
04	001	28955	19.0	0.28		0.54 J			<100	
04	001	28956	20.0	0.41		0.25				
04	001	28957	21.0	0.25		0.39			<100	
04	001	28958	22.0	0.29		1.11 J				
04	001	28959	23.0	0.38		0.66 J			<100	
04	**001**	**28960**	**24.0**	**0.241 J**	**0.177**	**0.171**	**0.0027 U**	**0.0027 U**	**1.2 J**	**0.059 J**
04	001	28965	26.0	0.21		0.79 J				
04	001	28966	27.0	0.20		0.45 UJ			<100	
04	001	28967	28.0	0.34		1.32				
04	001	28968	29.0	0.25		0.44 UJ			<100	
04	**001**	**28970**	**30.0**	**0.134**	**0.114**	**0.136**	**0.0026 U**	**0.0026 U**	**2.5 J**	**0.13 J**
04	002	28749	-1.0	0.63		1.84 J				
04	002	28750	0.0	0.88		6.20 J			<100	
04	**002**	**28756**	**1.0**	**1.00**	**0.95**	**0.85**	**0.0030 U**	**0.0033**	**9.9**	**0.75**
04	002	28757	3.0	0.61		2.15 J				
04	002	28758	4.0	0.42		0.31 UJ			<100	
04	002	28759	5.0	0.47		0.93 J				
04	002	28760	6.0	0.12 UJ		2.71			<100	
04	002	28761	7.0	0.68		1.24				
04	002	28762	8.0	0.26		1.25 J			<100	
04	002	28769	9.0	0.31		1.48				
04	002	28770	10.0	0.05		0.71 J			<100	
04	**002**	**28773**	**11.0**	**0.203**	**0.187**	**0.176**	**0.0026 U**	**0.0026 U**	**1.6 J**	**0.12 J**
04	002	28774	13.0	0.40		0.68 J				
04	002	28775	14.0	0.29		0.67			<100	
04	002	28776	15.0	0.20 J		0.50				
04	002	28777	16.0	0.30		0.76 J			<100	
04	002	28783	17.0	0.30 J		0.29				
04	002	28784	18.0	0.19		1.03 J			<100	
04	002	28785	19.0	0.30 J		1.25				
04	002	28786	20.0	0.24		0.81 J			<100	
04	**002**	**28789**	**21.0**	**0.163**	**0.178**	**0.177**	**0.0026 U**	**0.0026 U**	**0.99 J**	**0.11 J**
04	002	28790	23.0	0.20		0.40 J				
04	002	28791	24.0	0.27 J		1.08 J			<100	
04	002	28792	25.0	0.16 J		0.38 J				
04	002	28795	26.0	0.17		0.39 J			<100	
04	002	28796	27.0	0.16 J		0.79 J				
04	002	28797	28.0	0.15		0.62 J			<100	
04	002	28799	29.0	0.19		0.96				
04	**002**	**28798**	**30.0**	**0.228**	**0.263**	**0.171**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.20 J**
04	003	28704	-1.0	1.06		3.05 J				
04	003	28705	0.0	1.14		5.93 J			<100	
04	003	28709	1.0	1.04		1.55 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	003	28710	2.0	0.83		2.88 J			40.5 J	
04	003	28711	3.0	1.11		3.76 J				
04	003	28712	4.0	0.61		3.52 J			<100	
04	003	28715	5.0	0.75		2.32 J				
04	003	28716	6.0	0.91		4.29 J			<100	
04	**003**	**28718**	**7.0**	**0.230**	**0.66**	**0.89**	**0.0026 U**	**0.0026 U**	**2.7 J**	**0.26 J**
04	003	28719	9.0	0.42		2.15 J				
04	003	28720	10.0	0.30		0.47 UJ			<100	
04	003	28721	11.0	0.30		2.52 J				
04	003	28722	12.0	0.36		2.64 J			<100	
04	003	28729	13.0	0.26		1.23 J				
04	003	28730	14.0	0.26		1.90 J			<100	
04	003	28731	16.0	0.28		1.61 J			<100	
04	**003**	**28733**	**17.0**	**0.158**	**0.216**	**0.175**	**0.0027 U**	**0.0027 U**	**1.6 J**	**0.22 J**
04	003	28734	19.0	0.40		0.41 UJ				
04	003	28735	20.0	0.22		0.27 UJ			<100	
04	003	28736	21.0	0.29		1.24 J				
04	003	28737	22.0	0.19		0.58 J			<100	
04	003	28738	23.0	0.25		0.60 UJ				
04	003	28739	24.0	0.05		0.90 J			<100	
04	003	28740	25.0	0.21		0.79 J				
04	003	28741	26.0	0.21		0.25 UJ			<100	
04	**003**	**28742**	**27.0**	**0.124**	**0.146**	**0.186**	**0.0026 U**	**0.0026 U**	**0.95 J**	**0.20 J**
04	003	28743	29.0	0.24		2.08 J				
04	**003**	**28744**	**30.0**	**0.138**	**0.242**	**0.184**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.18 J**
04	004	28980	-1.0	0.91		1.40 UJ				
04	004	28981	0.0	0.80		0.97 UJ			<100	
04	004	28982	4.0	0.88		7.38 J			<100	
04	004	28987	5.0	0.71		2.93 J				
04	004	28988	6.0	0.34		1.62 J			<100	
04	004	28989	7.0	0.60		1.51 J				
04	004	28990	8.0	0.29		1.21 J			<100	
04	004	28997	9.0	0.73		1.15 J				
04	004	28998	10.0	0.07		0.59 J			<100	
04	**004**	**29001**	**11.0**	**0.249**	**0.303**	**0.315**	**0.0025 U**	**0.0025 U**	**1.2 J**	**0.15 J**
04	004	29002	13.0	0.31		1.26 J				
04	004	29003	14.0	0.30		0.85 J			<100	
04	004	29007	15.0	0.33		0.92 J				
04	004	29008	16.0	0.21		0.46 UJ			<100	
04	004	29009	17.0	0.28		0.59 J				
04	004	29010	18.0	0.25		2.02 J			<100	
04	004	29011	19.0	0.32		0.60 J				
04	004	29012	20.0	0.22		1.14 J			<100	
04	**004**	**29013**	**21.0**	**0.406 J**	**0.288**	**0.294**	**0.0026 U**	**0.0026 U**	**1.8 J**	**0.15 J**
04	004	29014	23.0	0.05		0.38 UJ				
04	004	29015	24.0	0.30		1.37 J			<100	
04	004	29016	25.0	0.31		2.16 J				
04	004	29017	26.0	0.22		1.73 J			<100	
04	004	29018	27.0	0.20		2.42 J				
04	004	29023	28.0	0.30		1.03 J			<100	
04	004	29024	29.0	0.19		1.53 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	**004**	**29025**	**30.0**	**0.237**	**0.77**	**0.293**	**0.0026 U**	**0.0026 U**	**1.7 J**	**0.13 J**
04	005	28804	-1.0	0.83		1.06 J				
04	005	28805	0.0	0.86		2.34			<100	
04	005	28806	2.0	0.70		1.05 J			<100	
04	005	28807	3.0	0.75 J		2.70 J				
04	005	28808	4.0	0.76		0.86			<100	
04	005	28809	5.0	0.58		0.46				
04	005	28810	6.0	0.67		0.91 J			<100	
04	**005**	**28814**	**7.0**	**0.192**	**0.274**	**0.338**	**0.0026 U**	**0.0026 U**	**2.8 J**	**0.27 J**
04	005	28815	9.0	0.51		1.81 J				
04	005	28816	10.0	0.22		1.40			<100	
04	005	28817	11.0	0.35 J		1.37 J				
04	005	28818	12.0	0.55		0.39			<100	
04	005	28819	13.0	0.39 J		0.75 J				
04	005	28820	14.0	0.27		0.97			<100	
04	005	28824	15.0	0.24		0.37				
04	005	28825	16.0	0.37		2.04			<100	
04	**005**	**28826**	**17.0**	**0.188**	**0.129**	**0.161**	**0.0026 U**	**0.0026 U**	**1.4 J**	**0.089 J**
04	005	28827	19.0	0.28 J		1.20				
04	005	28828	20.0	0.21		0.43			<100	
04	005	28836	21.0	0.27		1.02 J				
04	005	28837	22.0	0.40		0.49 J			<100	
04	005	28838	23.0	0.05 UJ		0.75 J				
04	005	28839	24.0	0.22		0.81 J			<100	
04	005	28840	25.0	0.27		0.68 J				
04	005	28841	26.0	0.03 UJ		0.25			<100	
04	**005**	**28849**	**27.0**	**0.106**	**0.143**	**0.115**	**0.0026 U**	**0.0026 U**	**2.1 J**	**0.15 J**
04	005	28855	29.0	0.23		2.72				
04	**005**	**28856**	**30.0**	**0.185**	**0.182**	**0.253**	**0.0026 U**	**0.0026 U**	**2.4 J**	**0.22 J**
04	006	28860	-1.0	0.63		0.80 J			<100	
04	006	28861	0.0	0.46		1.83 J				
04	006	28862	1.0	1.06		4.04			<100	
04	006	28870	2.0	0.86		0.96 J				
04	006	28871	3.0	1.06		1.16 J			<100	
04	**006**	**28872**	**4.0**	**0.56**	**0.324**	**0.339**	**0.0025 U**	**0.0025 U**	**2.6 J**	**0.16 J**
04	006	28873	6.0	1.04		2.07				
04	006	28874	7.0	0.44		1.27 J			<100	
04	006	28878	8.0	0.33		0.97 J				
04	006	28879	9.0	0.35 J		1.47 J			<100	
04	006	28880	10.0	0.54		1.32 J				
04	006	28881	11.0	0.03		0.45			<100	
04	006	28882	12.0	0.43		0.51 J				
04	006	28883	13.0	0.27		2.68			<100	
04	**006**	**28884**	**14.0**	**0.220**	**0.201**	**0.159**	**0.0025 U**	**0.0025 U**	**2.5 J**	**0.15 J**
04	006	28885	16.0	0.31		1.03 J				
04	006	28886	17.0	0.16 J		0.29			<100	
04	006	28887	18.0	0.04		2.07				
04	006	28888	19.0	0.28		0.81 J			<100	
04	006	28889	20.0	0.30		1.85 J				
04	006	28890	21.0	0.22		0.89 J			<100	
04	006	28891	22.0	0.25		0.57 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	006	28892	23.0	0.31		0.88 J			<100	
04	**006**	**28893**	**24.0**	**0.276**	**0.194**	**0.195**	**0.0026 U**	**0.0026 U**	**0.90 J**	**0.070 J**
04	006	28896	26.0	0.23		0.52 J				
04	006	28897	27.0	0.35		0.64 J			<100	
04	006	28898	28.0	0.27		1.24				
04	006	28899	29.0	0.22		0.24			<100	
04	**006**	**28900**	**30.0**	**0.126 J**	**0.151**	**0.18**	**0.0026 U**	**0.0026 U**	**2.5 J**	**0.16 J**
04	007	28430	0.0	0.84		5.06			<100	
04	**007**	**28431**	**1.0**	**0.82**	**7.85**	**4.71**	**0.0016 J**	**0.012 U**	**8.8**	**0.40 J**
04	007	28432	3.0	0.83		6.82 J				
04	007	28433	4.0	0.43		1.39 J			<100	
04	007	28434	5.0	0.78		4.08				
04	007	28435	6.0	0.33		0.87 J			<100	
04	007	28436	7.0	0.57		1.65 J				
04	007	28437	8.0	0.69		0.89 J			<100	
04	007	28438	9.0	0.46		1.02 J				
04	007	28439	10.0	0.18		0.67 J			<100	
04	**007**	**28440**	**11.0**	**0.265**	**0.360**	**0.267**	**0.0025 U**	**0.0025 U**	**2.1 J**	**0.18 J**
04	007	28441	13.0	0.47		1.87				
04	007	28442	14.0	0.24		0.37			<100	
04	007	28443	15.0	0.32		2.25				
04	007	28444	16.0	0.24		1.26			<100	
04	007	28445	17.0	0.26		0.50 UJ				
04	007	28446	18.0	0.24		0.88			<100	
04	007	28452	19.0	0.22		0.56 J				
04	007	28453	20.0	0.23		0.58 J			<100	
04	**007**	**28454**	**21.0**	**0.124**	**0.180**	**0.153**	**0.0025 U**	**0.0025 U**	**1.3 J**	**0.13 J**
04	007	28455	23.0	0.23		0.46 J				
04	007	28459	24.0	0.23		1.11 J			<100	
04	007	28460	25.0	0.14		0.60 J				
04	007	28465	26.0	NS		NS			<100	
04	007	28464	27.0	0.18		0.90 J				
04	007	28466	28.0	0.19 J		0.39			<100	
04	007	28467	29.0	0.20 J		0.50				
04	**007**	**28468**	**30.0**	**0.108**	**0.143**	**0.199**	**0.0025 U**	**0.0025 U**	**0.38 J**	**0.12 J**
04	008	29108	-1.0	0.82 J		1.43 J			<100	
04	008	29109	1.0	0.85		3.40 J			<100	
04	008	29110	3.0	1.10 J		2.25 J			<100	
04	**008**	**29112**	**4.0**	**0.432 J**	**0.47**	**0.44**	**0.0025 U**	**0.0025 U**	**1.1 J**	**0.27 J**
04	008	29113	6.0	0.53		2.84 J				
04	008	29114	7.0	0.75		1.42 J			<100	
04	008	29119	8.0	0.36		1.87 J				
04	008	29120	9.0	0.30		1.41 J			<100	
04	008	29123	10.0	0.37		1.06 J				
04	008	29124	11.0	0.32		2.07 J			<100	
04	008	29125	12.0	0.30 J		1.26 J				
04	008	29126	13.0	0.38		0.78 J			<100	
04	**008**	**29132**	**14.0**	**0.162 J**	**0.191**	**0.185**	**0.0025 U**	**0.0025 U**	**1.4 J**	**0.089 J**
04	008	29136	16.0	0.28 J		1.85 J				
04	008	29137	17.0	0.22		0.83 J			<100	
04	008	29138	18.0	0.30		1.06 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	008	29139	19.0	0.03		1.65 J			<100	
04	008	29145	20.0	0.24		1.75 J				
04	008	29146	21.0	0.07 UJ		1.43 J			<100	
04	008	29147	22.0	0.27		0.80 J				
04	008	29148	23.0	0.14 J		0.81 J			<100	
04	**008**	**29149**	**24.0**	**0.151 J**	**0.231**	**0.168**	**0.0025 U**	**0.0025 U**	**0.75 J**	**0.5 U**
04	008	29154	26.0	0.22		0.94 J				
04	008	29155	27.0	0.23		0.97 J			<100	
04	008	29158	28.0	0.28		1.76 J				
04	008	29159	29.0	0.04 UJ		0.57 J			<100	
04	**008**	**29164**	**30.0**	**0.130 J**	**0.197**	**0.184**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.11 J**
04	009	29052	0.0	0.70		1.10 J			<100	
04	**009**	**29053**	**1.0**	NS	NS	NS	**0.0027 R**	**0.0027 R**	**8.6**	**0.49 J**
04	009	29054	4.0	0.85		6.11			42.4	
04	009	29058	6.0	NS		NS			<100	
04	009	29060	7.0	1.50		2.12 J				
04	009	29059	8.0	0.46		0.93 J			<100	
04	009	29061	9.0	0.49		1.49 J				
04	009	29062	10.0	0.30		1.55			<100	
04	**009**	**29063**	**11.0**	**0.183 J**	**0.381**	**0.303**	**0.0025 U**	**0.0025 U**	**1.8 J**	**0.12 J**
04	009	29064	13.0	0.34		1.93				
04	009	29065	14.0	0.41		1.09 J			<100	
04	009	29070	15.0	0.35		0.59				
04	009	29071	16.0	0.27		1.15 J	0.100	0.100	<100	
04	009	29072	17.0	0.05		0.36				
04	009	29073	18.0	0.30		1.48	0.095	0.477 J	<100	
04	009	29074	19.0	0.34		1.75				
04	009	29075	20.0	0.30		0.28	0.201	0.900 J	<100	
04	**009**	**29078**	**21.0**	**0.174 J**	**0.293**	**0.281**	**0.00075 J**	**0.470 J**	**0.74 J**	**0.16 J**
04	009	29081	23.0	0.29		0.55	0.178	0.451 J		
04	009	29082	24.0	0.35		0.83 J			<100	
04	009	29083	25.0	0.20		1.64	0.186	0.720 J		
04	009	29090	26.0	0.22		0.69 J			<100	
04	009	29091	27.0	0.24		0.73 J	0.206	0.595 J		
04	009	29092	28.0	0.26		0.76 J			<100	
04	009	29093	29.0	0.25		1.51 J	0.189	0.399 J		
04	**009**	**29094**	**30.0**	**0.201 J**	**0.265**	**0.239**	**0.0025 U**	**0.032**	**1.0 J**	**0.12 J**
04	010	28481	-1.0	0.68 J		1.72 J				
04	010	28482	0.0	0.84 J		5.99			<100	
04	010	28483	1.0	0.80 J		2.81				
04	010	28484	2.0	0.86 J		3.64			<100	
04	010	28486	4.0	0.43 J		0.45			<100	
04	010	28490	5.0	0.55 J		3.35				
04	010	28491	6.0	0.60		4.12			<100	
04	**010**	**28492**	**7.0**	**0.68**	**0.69**	**0.61**	**0.0025 U**	**0.0025 U**	**2.7 J**	**0.24 J**
04	010	28493	9.0	0.44 J		1.43 J				
04	010	28494	10.0	0.31 J		1.51			<100	
04	010	28495	11.0	0.05		1.19 J				
04	010	28496	12.0	0.32 J		2.38			<100	
04	010	28497	13.0	0.35 J		1.00 J				
04	010	28498	14.0	0.26		2.16			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	010	28499	15.0	0.34		1.06				
04	010	28500	16.0	0.31 J		0.85 J			<100	
04	**010**	**28501**	**17.0**	**0.200**	**0.49**	**0.62**	**0.0025 U**	**0.0020 J**	**0.68 J**	**0.085 J**
04	010	28502	19.0	0.25		1.45 J				
04	010	28503	20.0	0.26 J		3.21			<100	
04	010	28504	21.0	0.32		2.09				
04	010	28505	22.0	0.03 UJ		0.60 J			<100	
04	010	28508	23.0	0.26 J		1.43				
04	010	28509	24.0	0.27		0.91 J			<100	
04	010	28510	25.0	0.39 J		0.99				
04	010	28511	26.0	0.16 J		0.52			<100	
04	**010**	**28512**	**27.0**	**0.267**	**0.301**	**0.296**	**0.0025 U**	**0.0025 U**	**2.3 J**	**0.13 J**
04	010	28513	29.0	0.19		0.28				
04	**010**	**28516**	**30.0**	**0.280**	**0.260**	**0.349**	**0.0025 U**	**0.00089 J**	**1.7 J**	**0.29 J**
04	011	29411	0.0	0.67		1.78			<100	
04	**011**	**29412**	**1.0**	**0.70**	**0.96**	**0.73**	**0.0027 U**	**0.0022 J**	**5.0**	**0.29 J**
04	011	29413	4.0	0.71		4.04			<100	
04	011	29414	5.0	0.59		2.24				
04	011	29415	6.0	0.71		3.01 J			<100	
04	011	29417	7.0	0.57		1.03 J				
04	011	29418	8.0	0.54		1.42 J			<100	
04	011	29419	9.0	0.28		0.90 J				
04	011	29420	10.0	0.06		3.01 J			<100	
04	**011**	**29426**	**11.0**	**0.184**	**0.238**	**0.222**	**0.0025 U**	**0.0025 UJ**	**1.6 J**	**0.13 J**
04	011	29427	13.0	0.43		2.41				
04	011	29428	14.0	0.45		0.87 J			<100	
04	011	29433	15.0	0.26		1.67 J				
04	011	29434	16.0	0.45		0.96 J			<100	
04	011	29435	17.0	0.33		1.98				
04	011	29436	18.0	0.60		2.74 J			<100	
04	011	29437	19.0	0.34		1.23				
04	011	29438	20.0	0.26		0.36 J			<100	
04	**011**	**29439**	**21.0**	**0.249**	**0.198**	**0.208**	**0.0025 U**	**0.0025 UJ**	**0.89 J**	**0.10 J**
04	011	29443	23.0	0.32		1.75				
04	011	29444	24.0	0.06		0.44			<100	
04	011	29445	25.0	0.19		0.61 J				
04	011	29446	26.0	0.23		0.79 J			<100	
04	011	29447	27.0	0.25		2.15 J				
04	011	29448	28.0	0.27		1.46 J			<100	
04	011	29449	29.0	0.18		0.79 J				
04	**011**	**29450**	**30.0**	**0.228**	**0.192**	**0.136**	**0.0025 U**	**0.0025 UJ**	**0.78 J**	**0.093 J**
04	012	29367	-1.0	0.89 J		6.84				
04	012	29368	0.0	0.78		1.20 J			<100	
04	012	29369	1.0	1.07 J		2.95				
04	012	29370	2.0	0.63 J		1.45 J			<100	
04	012	29371	3.0	0.50		1.78				
04	012	29372	4.0	0.84		0.66 J			<100	
04	012	29375	5.0	0.63		1.10 J				
04	012	29376	6.0	0.42		1.47			<100	
04	**012**	**29377**	**7.0**	**0.85**	**0.53**	**0.66**	**0.0027 U**	**0.0027 U**	**4.2**	**0.26 J**
04	012	29381	9.0	0.29		0.40 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	012	29382	10.0	0.63		1.54 J			<100	
04	012	29383	11.0	0.32		1.93				
04	012	29384	12.0	0.09		1.10 J			<100	
04	012	29385	13.0	0.29		1.04 J				
04	012	29386	14.0	0.33		1.19 J			<100	
04	012	29387	15.0	0.24		1.23 J				
04	012	29388	16.0	0.34		1.41			<100	
04	**012**	**29389**	**17.0**	**0.155**	**0.205**	**0.165**	**0.0025 U**	**0.0025 U**	**1.1 J**	**0.055 J**
04	012	29390	19.0	0.24		0.55				
04	012	29391	20.0	0.34		1.57			<100	
04	012	29392	21.0	0.27		1.09 J				
04	012	29393	22.0	0.31		0.30			<100	
04	012	29394	23.0	0.24		1.47				
04	012	29395	24.0	0.21		1.31			<100	
04	012	29396	25.0	0.23		1.33 J				
04	012	29397	26.0	0.18		0.61			<100	
04	**012**	**29398**	**27.0**	**0.094 J**	**0.122**	**0.130**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.22 J**
04	012	29399	29.0	0.19		1.36 J				
04	**012**	**29400**	**30.0**	**0.097 J**	**0.075 J**	**0.123**	**0.0025 U**	**0.0025 UJ**	**2.0 J**	**0.21 J**
04	013	29292	-1.0	0.66		2.38 J			<100	
04	013	29293	0.0	0.96		9.40				
04	013	29294	1.0	0.88		6.57			<100	
04	013	29295	2.0	1.15		5.06 J				
04	013	29296	3.0	0.51		1.35			<100	
04	**013**	**29299**	**4.0**	**0.478 J**	**0.85**	**0.65**	**0.0025 U**	**0.0025 U**	**4.1**	**0.19 J**
04	013	29300	6.0	0.30		1.35				
04	013	29301	7.0	1.23		2.13			<100	
04	013	29302	8.0	0.69		1.07 J				
04	013	29303	9.0	0.43		0.85 J			<100	
04	013	29304	10.0	0.23		1.08 J				
04	013	29305	11.0	0.60		2.39 J			<100	
04	013	29315	12.0	0.35		1.31 J				
04	013	29316	13.0	0.33 J		2.57			<100	
04	**013**	**29319**	**14.0**	**0.233 J**	**0.202**	**0.194**	**0.0025 U**	**0.0025 U**	**1.6 J**	**0.11 J**
04	013	29323	16.0	0.30		1.14 J				
04	013	29324	17.0	0.28		0.57 J			<100	
04	013	29325	18.0	0.40 J		1.45 J				
04	013	29326	19.0	0.28 J		1.21			<100	
04	013	29330	20.0	0.32 J		0.51				
04	013	29331	21.0	0.31 J		1.76			<100	
04	013	29335	22.0	0.25 J		2.03				
04	013	29336	23.0	0.04 UJ		0.83 J			<100	
04	**013**	**29337**	**24.0**	**0.233**	**0.185**	**0.203**	**0.0025 U**	**0.0025 U**	**1.4 J**	**0.11 J**
04	013	29338	26.0	0.25 J		0.52 J				
04	013	29339	27.0	0.25 J		0.63 J			<100	
04	013	29342	28.0	0.30 J		0.52	0.098	0.098		
04	013	29343	29.0	0.20 J		0.75 J			<100	
04	**013**	**29344**	**30.0**	**0.176**	**0.147**	**0.161**	**0.0025 U**	**0.0025 U**	**1.9 J**	**0.10 J**
04	014	28534	-1.0	0.73		3.11				
04	014	28535	0.0	0.72 J		1.28 J			<100	
04	**014**	**28536**	**1.0**	**0.46**	**1.78**	**1.53**	**0.0026 U**	**0.014**	**14.6**	**0.34 J**

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	014	28537	4.0	0.10 UJ		3.63			<100	
04	014	28543	5.0	0.56		1.67 J				
04	014	28544	6.0	0.49		1.45 J			<100	
04	014	28545	7.0	0.42		2.31				
04	014	28546	8.0	0.48		1.15 J			<100	
04	014	28547	9.0	0.35		1.05 J				
04	014	28548	10.0	0.32		1.08 J			<100	
04	**014**	**28550**	**11.0**	**0.196**	**0.406**	**0.420**	**0.0025 U**	**0.0025 U**	**0.83 J**	**0.14 J**
04	014	28554	13.0	0.36		2.53 J				
04	014	28555	14.0	0.23		1.32			<100	
04	014	28556	15.0	0.32		2.66 J				
04	014	28557	16.0	0.33		1.88 J			<100	
04	014	28558	17.0	0.25		0.46				
04	014	28559	18.0	0.25		1.74 J			<100	
04	014	28560	19.0	0.40		0.80 J				
04	014	28561	20.0	0.25		0.29			<100	
04	**014**	**28562**	**21.0**	**0.168**	**0.408**	**0.335**	**0.0025 U**	**0.0025 U**	**4 U**	**0.051 J**
04	014	28563	23.0	0.26		1.91 J				
04	014	28564	24.0	0.20		0.51 UJ			<100	
04	014	28565	25.0	0.25		0.49				
04	014	28566	26.0	0.24		1.49 J			<100	
04	014	28567	27.0	0.21		0.90 J				
04	014	28568	28.0	0.20		0.46 J			<100	
04	014	28569	29.0	0.22		0.43 J				
04	**014**	**28570**	**30.0**	**0.216**	**0.347**	**0.366**	**0.0025 U**	**0.0025 U**	**0.46 J**	**0.076 J**
04	015	29703	4.0	0.74		3.06			<100	
04	015	29704	5.0	0.46		1.67				
04	015	29705	6.0	0.44		0.89 J			<100	
04	015	29706	7.0	1.04		11.25				
04	015	29707	8.0	0.44		2.64			<100	
04	015	29708	9.0	0.84		3.72				
04	015	29709	10.0	1.29		4.25			<100	
04	**015**	**29712**	**11.0**	**0.84**	**1.47**	**1.49**	**0.0029 U**	**0.0029 UJ**	**12.3**	**0.37 J**
04	015	29713	13.0	0.32		2.34 J				
04	015	29714	14.0	0.28		0.64 J			<100	
04	015	29719	15.0	0.81		2.68				
04	015	29718	16.0	0.23		0.73 J			<100	
04	015	29720	17.0	0.06		0.86 J				
04	015	29721	18.0	0.25		0.51 J			<100	
04	015	29722	19.0	0.10		0.66				
04	015	29723	20.0	0.22		0.93 J			<100	
04	**015**	**29731**	**21.0**	**0.200**	**0.256**	**0.342**	**0.0025 U**	**0.0025 UJ**	**1.6 J**	**0.16 J**
04	015	29735	23.0	0.22		0.91				
04	015	29736	24.0	0.05		1.62			<100	
04	015	29737	25.0	0.26		2.09				
04	015	29742	26.0	0.15		0.28			<100	
04	015	29743	27.0	0.26		1.40 J				
04	015	29747	28.0	0.27		0.91 J			<100	
04	015	29748	29.0	0.23		1.78				
04	**015**	**29749**	**30.0**	**0.171**	**0.289**	**0.282**	**0.0025 U**	**0.0025 UJ**	**1.8 J**	**0.18 J**
04	**016**	**29655**	**4.0**	**0.76**	**5.82**	**5.64**	**0.0027 U**	**0.0027 J**	**6.2**	**0.37 J**

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	016	29658	6.0	0.44		3.24				
04	016	29659	7.0	0.35		1.90			<100	
04	016	29660	8.0	0.68		0.68				
04	016	29661	9.0	0.58		1.11			<100	
04	016	29662	12.0	0.44		2.25				
04	016	29663	13.0	0.46		1.93 J			<100	
04	**016**	**29668**	**14.0**	**0.179**	**0.81**	**0.71**	**0.0025 U**	**0.0025 UJ**	**1.5 J**	**0.16 J**
04	016	29674	17.0	0.30		0.56 J			<100	
04	016	29675	18.0	0.03		0.90 J				
04	016	29676	19.0	0.25		1.71 J			<100	
04	016	29682	20.0	0.22		1.00 J				
04	016	29683	21.0	0.22		1.59			<100	
04	016	29684	22.0	0.06		1.91 J				
04	016	29685	23.0	0.24		0.46 J			<100	
04	**016**	**29686**	**24.0**	**0.142**	**0.236**	**0.234**	**0.0025 U**	**0.0025 UJ**	**1.4 J**	**0.14 J**
04	016	29690	26.0	0.23		0.38 J				
04	016	29691	27.0	0.18		0.53			<100	
04	016	29695	28.0	0.30		1.27				
04	016	29696	29.0	0.23		0.45			<100	
04	**016**	**29697**	**30.0**	**0.126**	**0.331**	**0.233**	**0.0025 U**	**0.0025 UJ**	**2.0 J**	**0.14 J**
04	017	29540	-1.0	0.86		1.41 J				
04	017	29541	0.0	1.41		18.58			<100	
04	**017**	**29542**	**1.0**	**0.81**	**8.0**	**7.6**	**0.0014 J**	**0.032 J**	**30.8**	**0.34 J**
04	017	29543	4.0	0.44		3.10			<100	
04	017	29602	6.0	0.53		6.58			<100	
04	017	29603	7.0	0.52		3.78				
04	017	29604	8.0	0.65		1.74			<100	
04	017	29605	9.0	0.50		2.43				
04	017	29606	10.0	0.22		0.94 J			<100	
04	**017**	**29607**	**11.0**	**0.289**	**0.55**	**0.54**	**0.0026 U**	**0.0026 UJ**	**0.98 J**	**0.13 J**
04	017	29608	13.0	0.06		1.52				
04	017	29609	14.0	0.29		1.32 J			<100	
04	017	29610	15.0	0.03		0.62 J				
04	017	29611	16.0	0.31		1.03 J			<100	
04	017	29612	17.0	0.44		1.80				
04	017	29613	18.0	0.24		0.80 J			<100	
04	017	29614	19.0	0.35		3.02				
04	017	29615	20.0	0.22		0.79 J			<100	
04	**017**	**29616**	**21.0**	**0.202**	**0.424**	**0.45**	**0.0026 U**	**0.0026 UJ**	**1.0 J**	**0.17 J**
04	017	29617	23.0	0.31		0.40				
04	017	29621	24.0	0.25		0.29			<100	
04	017	29622	25.0	0.32		0.97 J				
04	017	29623	26.0	0.22		1.12			<100	
04	017	29624	27.0	0.24		1.02 J				
04	017	29625	28.0	0.23		0.91 J			<100	
04	017	29626	29.0	0.30		1.42 J				
04	**017**	**29627**	**30.0**	**0.126**	**0.268**	**0.226**	**0.0026 U**	**0.0026 UJ**	**1.3 J**	**0.15 J**
04	018	28633	-1.0	1.10		2.78 J				
04	018	28634	0.0	0.97		10.80			<100	
04	018	28641	1.0	0.76		7.72				
04	018	28642	2.0	0.85		4.55 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	018	28647	3.0	1.08		3.90				
04	018	28648	4.0	0.83		5.17			<100	
04	018	28652	5.0	0.52		2.97 J				
04	018	28653	6.0	0.49		1.04 J			<100	
04	**018**	**28654**	**7.0**	**0.341**	**0.52**	**0.48**	**0.0025 U**	**0.0025 U**	**3.1 J**	**0.22 J**
04	018	28655	9.0	0.25		1.23 J				
04	018	28656	10.0	0.32		1.68 J			<100	
04	018	28657	11.0	0.38		1.74				
04	018	28658	12.0	0.10		1.72			<100	
04	018	28659	13.0	0.33		2.20 J				
04	018	28660	14.0	0.37		2.69			<100	
04	018	28665	15.0	0.07		1.08				
04	018	28666	16.0	0.06		0.63 J			<100	
04	**018**	**28668**	**17.0**	**0.202**	**0.48**	**0.388**	**0.0025 U**	**0.0025 U**	**0.28 J**	**0.066 J**
04	018	28669	19.0	0.32		1.97				
04	018	28670	20.0	0.32		1.76			<100	
04	018	28675	21.0	0.30		0.68 UJ				
04	018	28676	22.0	0.20		0.60 J			<100	
04	018	28677	23.0	0.28		1.22				
04	018	28678	24.0	0.24		1.49 J			<100	
04	018	28679	25.0	0.03		1.54				
04	018	28680	26.0	0.37		0.66 J			<100	
04	**018**	**28681**	**27.0**	**0.112**	**0.268**	**0.230**	**0.0025 U**	**0.0025 U**	**2.4 J**	**0.12 J**
04	018	28683	29.0	0.20		0.73 J				
04	**018**	**28684**	**30.0**	**0.168**	**0.361**	**0.288**	**0.0026 U**	**0.0056**	**3.0 J**	**0.15 J**
04	019	29755	2.0	1.16		16.63			170	
04	019	29756	3.0	0.78		16.36				
04	019	29757	4.0	0.47		2.30			<100	
04	019	29758	5.0	0.92		18.02				
04	019	29759	6.0	0.61		6.37			<100	
04	019	29760	7.0	0.90		11.11				
04	019	29761	8.0	0.52		2.23			<100	
04	019	29762	9.0	0.40		2.65				
04	019	29763	10.0	0.50		0.63 J			<100	
04	**019**	**29764**	**11.0**	**0.242**	**1.49**	**1.42**	**0.0026 U**	**0.0026 UJ**	**3.3 J**	**0.22 J**
04	019	29765	13.0	0.38		3.90				
04	019	29766	14.0	0.05		2.53 J			<100	
04	019	29768	15.0	0.29		3.61				
04	019	29767	16.0	0.26		1.78			<100	
04	019	29769	17.0	0.34		3.65				
04	019	29770	18.0	0.30		4.67			<100	
04	019	29771	19.0	0.27		4.37				
04	019	29772	20.0	0.22		5.39			<100	
04	**019**	**29773**	**21.0**	**0.134**	**6.24**	**6.32**	**0.0025 U**	**0.0025 UJ**	**2.1 J**	**0.12 J**
04	019	29776	23.0	0.25		7.28				
04	019	29777	24.0	0.36		11.38			<100	
04	019	29778	25.0	0.04		10.83				
04	019	29779	26.0	0.38		14.83			<100	
04	019	29780	27.0	0.21		16.56				
04	019	29781	28.0	0.28		11.04			<100	
04	019	29782	29.0	0.26		1.13				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	**019**	**29783**	**30.0**	**0.142**	**2.01**	**2.34**	**0.0025 U**	**0.0025 UJ**	**3.2 J**	**0.19 UJ**
04	020	29788	2.0	1.04		17.13			103	
04	020	29792	3.0	0.83		10.60				
04	020	29793	4.0	0.62		27.48			50.2 J	
04	020	29796	5.0	0.54		47.10				
04	020	29797	6.0	0.43		78.88			82.0 J	
04	**020**	**29798**	**7.0**	**0.222**	**14.1**	**12.7**	**0.0025 U**	**0.0025 UJ**	**102 J**	**0.14 UJ**
04	020	29805	9.0	0.48		11.09				
04	020	29806	10.0	0.29		8.21			95.4 J	
04	020	29807	11.0	0.39		6.95				
04	020	29808	12.0	0.28		7.74			<100	
04	020	29809	13.0	0.32		10.91				
04	020	29810	14.0	0.27		15.10			41.4 J	
04	020	29811	15.0	0.07		12.36				
04	020	29812	16.0	0.23		12.52			<100	
04	**020**	**29813**	**17.0**	**0.211**	**9.2**	**9.3**	**0.0025 U**	**0.0025 UJ**	**2.5 J**	**0.083 UJ**
04	020	29816	19.0	0.33		7.40				
04	020	29817	20.0	0.32		7.10			<100	
04	020	29824	21.0	0.30		6.47				
04	020	29825	22.0	0.30		7.53			<100	
04	020	29826	23.0	0.30		7.40				
04	020	29827	24.0	0.34		10.89			<100	
04	020	29828	25.0	0.24		7.69				
04	020	29829	26.0	0.20		8.95			<100	
04	**020**	**29830**	**27.0**	**0.124**	**7.7**	**8.1**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.15 UJ**
04	020	29831	29.0	0.37		13.13				
04	**020**	**29832**	**30.0**	**0.247**	**9.9**	**10.7**	**0.0026 U**	**0.0026 UJ**	**1.8 J**	**0.18 J**
04	021	29484	-1.0	1.05		3.96			51.6	
04	021	29487	0.0	0.74		30.99				
04	021	29488	1.0	1.14		20.49			330	
04	021	29489	2.0	1.19		11.27				
04	021	29490	3.0	0.80		10.09			<100	
04	**021**	**29495**	**4.0**	**0.61**	**9.1**	**8.9**	**0.0027 U**	**0.010 J**	**42.3**	**0.35 J**
04	021	29496	6.0	0.45		7.60				
04	021	29497	7.0	0.67		8.93			<100	
04	021	29498	8.0	0.36		2.01				
04	021	29499	9.0	0.06		5.52			<100	
04	021	29501	10.0	0.34		2.28				
04	021	29502	11.0	0.42		2.25			<100	
04	021	29504	12.0	0.38		1.56				
04	021	29505	13.0	0.08		1.09 J			<100	
04	**021**	**29508**	**14.0**	**0.236**	**1.11**	**1.26**	**0.0026 U**	**0.0026 UJ**	**3.0 J**	**0.13 J**
04	021	29509	16.0	0.25		2.81				
04	021	29510	17.0	0.22		2.38			<100	
04	021	29511	18.0	0.20		2.28				
04	021	29512	19.0	0.24		0.96 J			<100	
04	021	29521	20.0	0.07		2.31				
04	021	29522	21.0	0.22		0.65			<100	
04	021	29523	23.0	0.05		1.00 J			<100	
04	**021**	**29526**	**24.0**	**0.167**	**0.70**	**0.75**	**0.0026 U**	**0.0026 UJ**	**0.56 J**	**0.088 J**
04	021	29527	26.0	0.08		0.60 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	021	29528	27.0	0.21		1.23			<100	
04	021	29536	28.0	0.24		1.31				
04	021	29537	29.0	0.27		1.30 J			<100	
04	**021**	**29538**	**30.0**	**0.361**	**0.465**	**0.326**	**0.0025 U**	**0.0025 UJ**	**2.2 J**	**0.16 J**
04	022	28576	-1.0	0.73		2.01				
04	022	28577	0.0	1.10		20.81 J			274	
04	**022**	**28575**	**1.0**	**0.66**	**2.05**	**2.14**	**0.00064 J**	**0.023**	**1.1 J**	**0.16 J**
04	022	28583	3.0	0.60		2.32 J				
04	022	28584	4.0	0.68		0.60 J			<100	
04	022	28585	5.0	0.63		5.00 J				
04	022	28586	6.0	0.44		1.65 J			<100	
04	022	28587	7.0	0.42		1.91 J				
04	022	28588	8.0	0.37		2.58 J			<100	
04	022	28589	9.0	0.27		1.38 J				
04	022	28590	10.0	0.24		0.43			<100	
04	**022**	**28593**	**11.0**	**0.168**	**0.350**	**0.308**	**0.0025 U**	**0.0025 U**	**5.5**	**0.29 J**
04	022	28594	13.0	0.26		2.12 J				
04	022	28595	14.0	0.31		0.67 J			<100	
04	022	28596	15.0	0.24		0.73				
04	022	28597	16.0	0.21		0.87 J			<100	
04	022	28598	17.0	0.25		1.26 J				
04	022	28599	18.0	0.20		0.48			<100	
04	022	28602	19.0	0.31		1.92 J				
04	022	28603	20.0	0.32		1.74 J			<100	
04	**022**	**28604**	**21.0**	**0.125**	**0.268**	**0.203**	**0.0025 U**	**0.0025 U**	**1.1 J**	**0.12 J**
04	022	28609	23.0	0.30		1.10				
04	022	28610	24.0	0.19		0.69 J			<100	
04	022	28611	25.0	0.18		0.48 J				
04	022	28618	26.0	0.39		1.22 J			<100	
04	022	28619	27.0	0.21		2.26				
04	022	28620	28.0	0.25		1.00 J			<100	
04	022	28621	29.0	0.24		0.52 J				
04	**022**	**28622**	**30.0**	**0.135**	**0.155**	**0.172**	**0.0026 U**	**0.0026 U**	**1.4 J**	**0.13 J**
05	001	30363	-1.0	0.88		2.86				
05	001	30364	0.0	0.58		2.20			<100	
05	**001**	**30367**	**1.0**	**0.383**	**0.58**	**0.59**	**0.0026 R**	**0.0026 R**	**2.9 J**	**0.20 J**
05	001	30368	3.0	0.43		0.80 J				
05	001	30369	4.0	0.43		1.26 J			<100	
05	001	30373	5.0	0.78		1.09 J				
05	001	30374	6.0	1.17		3.60			<100	
05	001	30375	7.0	0.51		1.05 J				
05	001	30376	8.0	0.24		0.62			<100	
05	001	30377	9.0	0.07		1.00 J				
05	001	30378	10.0	0.05		0.94 J			<100	
05	**001**	**30379**	**11.0**	**0.311**	**0.271**	**0.203**	**0.0025 U**	**0.0025 UJ**	**2.7 J**	**0.19 J**
05	001	30380	13.0	0.44		1.22 J				
05	001	30381	14.0	0.22		1.02 J			<100	
05	001	30382	15.0	0.47		0.89 J				
05	001	30383	16.0	0.28		0.88			<100	
05	001	30384	17.0	0.33		0.80 J				
05	001	30385	18.0	0.17		1.23			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	001	30399	19.0	0.24		0.60				
05	001	30400	20.0	0.30		1.54			<100	
05	**001**	**30401**	**21.0**	**0.245**	**0.196**	**0.198**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.15 J**
05	001	30402	23.0	0.26		0.41				
05	001	30403	24.0	0.40		1.19 J			<100	
05	001	30404	25.0	0.33		0.86 J				
05	001	30405	26.0	0.26		0.93 J			<100	
05	001	30406	27.0	0.06		1.42				
05	001	30407	28.0	0.02		0.39			<100	
05	001	30408	29.0	0.28		0.44				
05	**001**	**30409**	**30.0**	**0.127**	**0.174**	**0.105**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.14 J**
05	002	30323	-1.0	0.74		0.89 J				
05	002	30324	0.0	0.44		1.14 J			<100	
05	002	30325	1.0	0.59		2.70				
05	002	30326	2.0	0.74		0.78 J			<100	
05	002	30327	3.0	0.59		2.43				
05	002	30328	4.0	1.14		1.90 J			<100	
05	002	30329	5.0	0.58		2.58				
05	002	30330	6.0	1.07		1.23 J			<100	
05	**002**	**30331**	**7.0**	**0.54**	**0.346**	**0.43**	**0.0025 U**	**0.0025 UJ**	**1.4 J**	**0.13 J**
05	002	30332	9.0	0.32		0.80 J				
05	002	30333	10.0	0.32		1.65 J			<100	
05	002	30334	11.0	0.32		2.29				
05	002	30335	12.0	0.29		1.87			<100	
05	002	30336	13.0	0.32		0.44				
05	002	30337	14.0	0.31		1.53			<100	
05	002	30338	15.0	0.37		1.63				
05	002	30339	16.0	0.17		0.58			<100	
05	**002**	**30340**	**17.0**	**0.158**	**0.200**	**0.138**	**0.0025 U**	**0.0025 UJ**	**1.8 J**	**0.12 J**
05	002	30341	19.0	0.40		0.96 J				
05	002	30342	20.0	0.32		1.90			<100	
05	002	30343	21.0	0.26		0.84 J				
05	002	30344	22.0	0.33		1.64 J			<100	
05	002	30345	23.0	0.04		0.60				
05	002	30346	24.0	0.33		0.46			<100	
05	002	30347	25.0	0.37		1.86				
05	002	30348	26.0	0.30		1.23 J			<100	
05	**002**	**30350**	**27.0**	**0.202**	**0.155**	**0.182**	**0.0025 U**	**0.0025 UJ**	**1.4 J**	**0.12 J**
05	002	30349	29.0	0.24		0.77 J				
05	**002**	**30351**	**30.0**	**0.129**	**0.182**	**0.162**	**0.0025 U**	**0.0025 UJ**	**2.7 J**	**0.15 J**
05	003	30034	-1.0	0.44		1.89 J			<100	
05	003	30035	0.0	0.69		1.52 J				
05	003	30036	1.0	0.77		9.40			<100	
05	003	30039	3.0	0.49		10.87			<100	
05	**003**	**30040**	**4.0**	**0.375**	**2.79**	**2.80**	**0.0025 U**	**0.0025 UJ**	**2.3 J**	**0.21 J**
05	003	30042	6.0	1.30		1.95 J				
05	003	30043	7.0	1.03		1.21 J			<100	
05	003	30047	8.0	0.50		1.28 J				
05	003	30048	9.0	0.37		0.80 J			<100	
05	003	30049	10.0	0.35		2.83				
05	003	30050	11.0	0.26		1.64 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	003	30051	12.0	0.30		1.75				
05	003	30052	13.0	0.31		1.33			<100	
05	**003**	**30055**	**14.0**	**0.212**	**0.79**	**0.80**	**0.0026 U**	**0.0026 UJ**	**4.0 J**	**0.30 J**
05	003	30064	16.0	0.23		2.63				
05	003	30065	17.0	0.30		0.49			<100	
05	003	30066	18.0	0.07		0.85 J				
05	003	30067	19.0	0.02		0.15			<100	
05	003	30068	20.0	0.25		2.48				
05	003	30069	21.0	0.24		0.60 J			<100	
05	003	30070	23.0	0.41		1.33 J			<100	
05	**003**	**30075**	**24.0**	**0.172**	**0.185**	**0.169**	**0.0026 U**	**0.0026 UJ**	**1.7 J**	**0.11 J**
05	003	30084	26.0	0.06		1.16 J				
05	003	30085	27.0	0.23		0.90 J			<100	
05	003	30082	28.0	0.19		0.60 J				
05	003	30083	29.0	0.15		0.95 J			<100	
05	**003**	**30086**	**30.0**	**0.149**	**0.340**	**0.46**	**0.0026 U**	**0.0026 UJ**	**2.6 J**	**0.18 J**
05	004	29983	-1.0	0.68		1.59 J				
05	004	29984	0.0	0.59		5.50 J			<100	
05	**004**	**29985**	**1.0**	**0.54**	**6.81**	**6.87**	**0.0027 U**	**0.00068 J**	**15.2**	**0.27 J**
05	004	29986	4.0	0.53		4.27			<100	
05	004	29987	5.0	0.52		3.47 J				
05	004	29988	6.0	0.50		1.14 J			<100	
05	004	29989	7.0	1.69		3.19				
05	004	29990	8.0	0.36		0.58 J			<100	
05	004	29991	9.0	0.35		2.20				
05	004	29992	10.0	0.22		1.29 J			<100	
05	**004**	**29993**	**11.0**	**0.193**	**0.38**	**0.44**	**0.0026 U**	**0.0026 UJ**	**1.5 J**	**0.20 J**
05	004	29996	13.0	0.34		0.60 UJ				
05	004	29997	14.0	0.29		1.80			<100	
05	004	29998	15.0	0.41		1.32 J				
05	004	29999	16.0	0.31		0.89 J			<100	
05	004	30002	17.0	0.28		1.08				
05	004	30003	18.0	0.27		0.92 J			<100	
05	004	30004	19.0	0.34		0.62				
05	004	30005	20.0	0.40		0.62			<100	
05	**004**	**30017**	**21.0**	**0.197**	**1.29**	**1.17**	**0.0026 U**	**0.0026 UJ**	**2.7 J**	**0.15 J**
05	004	30018	23.0	0.30		0.83				
05	004	30020	24.0	0.18		0.65 UJ			<100	
05	004	30021	25.0	0.19		0.40				
05	004	30022	26.0	0.36		1.74			<100	
05	004	30023	27.0	0.26		1.25 J				
05	004	30030	28.0	0.32		1.37 J			<100	
05	004	30031	29.0	0.19		0.54 J				
05	**004**	**30032**	**30.0**	**0.147**	**0.51**	**0.44**	**0.0026 U**	**0.0026 UJ**	**2.6 J**	**0.31 J**
05	005	29891	-1.0	1.05		3.21				
05	005	29892	0.0	0.58		2.67 J			<100	
05	005	29893	1.0	0.80		18.15				
05	005	29894	2.0	0.82		19.04			<100	
05	005	29895	4.0	0.72		9.73			<100	
05	005	29896	5.0	0.96		4.82				
05	005	29897	6.0	1.20		4.68			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	**005**	**29898**	**7.0**	**0.281**	**0.43**	**0.42**	**0.0025 U**	**0.0025 UJ**	**0.86 J**	**0.10 J**
05	005	29899	9.0	0.33		1.35				
05	005	29900	10.0	0.30		0.53			<100	
05	005	29901	11.0	0.28		0.62 J				
05	005	29902	12.0	0.26		2.11 J			<100	
05	005	29903	13.0	0.22		0.50				
05	005	29904	14.0	0.28		1.31 J			<100	
05	005	29905	15.0	0.22		0.51				
05	005	29906	16.0	0.30		2.11 J			<100	
05	**005**	**29907**	**17.0**	**0.308**	**0.57**	**0.68**	**0.0028 U**	**0.0028 UJ**	**1.6 J**	**0.11 J**
05	005	29908	19.0	0.30		2.74				
05	005	29909	20.0	0.27		0.56 J			<100	
05	005	29913	21.0	0.46		1.71				
05	005	29914	22.0	0.25		0.28			<100	
05	005	29915	23.0	0.23		1.44				
05	005	29916	24.0	0.26		1.03 J			<100	
05	005	29922	25.0	0.31		1.19 J				
05	005	29923	26.0	0.33		0.48 J			<100	
05	**005**	**29924**	**27.0**	**0.158**	**0.310**	**0.280**	**0.0026 U**	**0.0026 UJ**	**2.0 J**	**0.13 J**
05	005	29925	29.0	0.18		1.02 J				
05	**005**	**29929**	**30.0**	**0.254**	**1.53**	**1.53**	**0.0026 U**	**0.0026 UJ**	**3.1 J**	**0.11 J**
05	006	30430	-1.0	0.51		0.59 UJ			<100	
05	006	30431	0.0	1.07		3.37				
05	006	30432	1.0	0.65		1.17 J			<100	
05	006	30433	2.0	0.58		1.97 J				
05	006	30434	3.0	0.35		1.69			<100	
05	**006**	**30435**	**4.0**	**0.91**	**0.66**	**0.66**	**0.0027 U**	**0.0027 UJ**	**6.9**	**0.39 J**
05	006	30439	6.0	1.40		2.89				
05	006	30440	7.0	0.98		2.10 J			<100	
05	006	30441	8.0	0.44		1.68 J				
05	006	30442	9.0	0.42		0.66 UJ			<100	
05	006	30448	10.0	0.34		0.91 J				
05	006	30449	11.0	0.26		2.11			<100	
05	006	30450	12.0	0.04		1.10 J				
05	006	30451	13.0	0.36		1.41 J			<100	
05	**006**	**30452**	**14.0**	**0.300**	**0.210**	**0.219**	**0.0026 U**	**0.0026 UJ**	**1.4 J**	**0.11 J**
05	006	30453	16.0	0.54		1.44 J				
05	006	30454	17.0	0.33		0.75 J			<100	
05	006	30455	18.0	0.27		0.74 J				
05	006	30456	19.0	0.34		0.78 J			<100	
05	006	30457	20.0	0.33		1.01 J				
05	006	30458	21.0	0.24		0.87 J			<100	
05	006	30459	22.0	0.37		0.61 J				
05	006	30460	23.0	0.46		1.63 J			<100	
05	**006**	**30461**	**24.0**	**0.115**	**0.187**	**0.268**	**0.0026 U**	**0.0026 UJ**	**1.1 J**	**0.099 J**
05	006	30462	26.0	0.27		0.90 J				
05	006	30463	27.0	0.26		0.58 J			<100	
05	006	30464	28.0	0.26		0.78 J				
05	006	30465	29.0	0.04		0.46 UJ			<100	
05	**006**	**30466**	**30.0**	**0.174**	**0.193**	**0.166**	**0.0028 U**	**0.0028 UJ**	**2.2 J**	**0.22 J**
05	007	30276	-1.0	0.76		1.78 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	007	30277	0.0	0.89		7.78			<100	
05	**007**	**30282**	**1.0**	**0.409**	**2.94**	**2.79**	**0.0025 U**	**0.0025 UJ**	**4.3 J**	**0.37 J**
05	007	30283	3.0	0.37		1.98				
05	007	30284	4.0	0.62		3.29			<100	
05	007	30285	5.0	0.53		2.89				
05	007	30286	6.0	0.44		0.77 J			<100	
05	007	30287	7.0	0.90		3.15				
05	007	30288	8.0	0.62		2.31			<100	
05	007	30289	9.0	0.34		1.82				
05	007	30290	10.0	0.51		0.89 J			<100	
05	**007**	**30291**	**11.0**	**0.209**	**0.292**	**0.237**	**0.0025 U**	**0.0025 UJ**	**3.4 J**	**0.20 J**
05	007	30292	13.0	0.08		0.49				
05	007	30293	14.0	0.28		1.32 J			<100	
05	007	30294	15.0	0.04		1.61 J				
05	007	30295	16.0	0.25		1.23			<100	
05	007	30300	17.0	0.26		1.20				
05	007	30301	18.0	0.03		2.03			<100	
05	007	30302	19.0	0.25		1.80				
05	007	30303	20.0	0.27		1.08			<100	
05	**007**	**30304**	**21.0**	**0.288**	**0.192**	**0.213**	**0.0025 U**	**0.0025 U**	**2.0 J**	**0.22 J**
05	007	30305	23.0	0.39		1.90 J				
05	007	30311	24.0	0.26		1.04 J			<100	
05	007	30312	25.0	0.44		0.95 J				
05	007	30313	26.0	0.05		0.20			<100	
05	007	30314	27.0	0.35		1.02 J				
05	007	30317	28.0	0.25		1.98			<100	
05	007	30318	29.0	0.21		0.73 J				
05	**007**	**30319**	**30.0**	**0.212**	**0.175**	**0.200**	**0.0025 U**	**0.0025 UJ**	**2.7 J**	**0.16 J**
05	008	30089	-1.0	1.06		3.33 J				
05	008	30090	0.0	0.52		0.85			<100	
05	008	30091	2.0	0.62		7.23			<100	
05	008	30092	3.0	0.56		1.65 J				
05	008	30093	4.0	0.94		2.76 J			<100	
05	008	30096	5.0	0.60		5.48				
05	008	30097	6.0	0.62		0.95 UJ			<100	
05	**008**	**30098**	**7.0**	**0.60**	**1.66**	**1.54**	**0.0026 U**	**0.0026 UJ**	**2.0 J**	**0.18 J**
05	008	30099	9.0	0.30		1.89				
05	008	30<100	10.0	0.34		0.48 UJ			<100	
05	008	30101	11.0	0.33		0.44 UJ				
05	008	30102	12.0	0.43		1.42 J			<100	
05	008	30104	13.0	0.31		1.52 J				
05	008	30105	14.0	0.25		1.78 J			<100	
05	008	30111	15.0	0.28		0.53 J				
05	008	30112	16.0	0.27		1.47			<100	
05	**008**	**30113**	**17.0**	**0.069 J**	**0.52**	**0.54**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.11 J**
05	008	30114	19.0	0.40		1.70 J				
05	008	30115	20.0	0.25		0.70			<100	
05	008	30116	21.0	0.29 J		0.78 J				
05	008	30117	22.0	0.05		1.00 J			<100	
05	008	30118	23.0	0.34		1.74				
05	008	30119	24.0	0.33		1.55 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	008	30123	25.0	0.23		1.68				
05	008	30124	26.0	0.19		1.46			<100	
05	**008**	**30127**	**27.0**	**0.120**	**0.203**	**0.228**	**0.0026 U**	**0.0026 UJ**	**1.8 J**	**0.16 J**
05	008	30132	29.0	0.24		1.54 J				
05	**008**	**30133**	**30.0**	**0.146 J**	**0.55**	**0.54**	**0.0026 U**	**0.0026 UJ**	**1.9 J**	**0.20 J**
05	009	29947	-1.0	0.87		2.16 J			<100	
05	009	29948	0.0	0.91		0.54 UJ				
05	009	29949	1.0	0.88		3.64			<100	
05	009	29950	2.0	0.72		19.72 J				
05	009	29952	3.0	0.58		10.67			<100	
05	**009**	**29951**	**4.0**	**0.85**	**1.57**	**1.57**	**0.0025 U**	**0.0025 UJ**	**2.4 J**	**0.11 J**
05	009	29953	6.0	0.71		1.04 J				
05	009	29954	7.0	0.89		1.12 J			<100	
05	009	29955	8.0	0.55		2.18 J				
05	009	29956	9.0	0.35		1.60			<100	
05	009	29957	10.0	0.32		2.03				
05	009	29958	11.0	0.35		1.06 J			<100	
05	009	29959	12.0	0.36		0.47				
05	009	29960	13.0	0.38		0.64 UJ			<100	
05	**009**	**29961**	**14.0**	**0.212**	**0.234**	**0.261**	**0.0025 U**	**0.0025 UJ**	**2.5 J**	**0.19 J**
05	009	29962	16.0	0.32		0.50 J				
05	009	29963	17.0	0.20		1.34 J			<100	
05	009	29964	18.0	0.34		0.51 UJ				
05	009	29965	19.0	0.36		1.26 J			<100	
05	009	29966	20.0	0.33		1.25 J				
05	009	29967	21.0	0.29		2.08			<100	
05	009	29968	22.0	0.30		2.30 J				
05	009	29969	23.0	0.19		1.16 J			<100	
05	**009**	**29970**	**24.0**	**0.250**	**0.177**	**0.142**	**0.0026 U**	**0.0026 UJ**	**1.2 J**	**0.11 J**
05	009	29971	26.0	0.43		1.16 J				
05	009	29972	27.0	0.21		1.03 J			<100	
05	009	29973	28.0	0.24		1.29 J				
05	009	29974	29.0	0.15		1.38			<100	
05	**009**	**29975**	**30.0**	**0.210**	**0.105**	**0.151**	**0.0026 U**	**0.0026 UJ**	**1.5 J**	**0.14 J**
05	010	30467	-1.0	0.52		1.53 J				
05	010	30468	0.0	1.03		0.83			<100	
05	**010**	**30469**	**1.0**	**0.62**	**0.40**	**0.46**	**0.0028 U**	**0.00070 J**	**3.5 J**	**0.34 J**
05	010	30470	3.0	0.58		0.59 UJ				
05	010	30471	4.0	0.41		0.86 J			<100	
05	010	30472	5.0	0.36		1.97				
05	010	30473	6.0	1.09		1.94 J			<100	
05	010	30480	7.0	0.56		0.80 J				
05	010	30481	8.0	0.05		1.10 J			<100	
05	010	30482	9.0	0.39		2.65				
05	010	30483	10.0	0.46		0.58 UJ			<100	
05	**010**	**30484**	**11.0**	**0.166**	**0.198**	**0.195**	**0.0025 U**	**0.0025 UJ**	**2.0 J**	**0.11 J**
05	010	30488	13.0	0.28		1.23				
05	010	30489	14.0	0.34		0.66 J			<100	
05	010	30490	15.0	0.29		1.01 J				
05	010	30491	16.0	0.31		1.65			<100	
05	010	30492	17.0	0.29		0.60 UJ				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	010	30493	18.0	0.25		2.13 J			<100	
05	010	30497	19.0	0.07		2.14				
05	010	30498	20.0	0.22		1.48			<100	
05	**010**	**30499**	**21.0**	**0.176**	**0.147**	**0.182**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.13 J**
05	010	30500	23.0	0.07		0.45 UJ				
05	010	30501	24.0	0.04		0.47 UJ			<100	
05	010	30502	25.0	0.28		0.77 J				
05	010	30515	26.0	0.19		0.62 J			<100	
05	010	30516	27.0	0.29		1.82 J				
05	010	30517	28.0	0.28		0.51			<100	
05	010	30518	29.0	0.03		1.29 J				
05	**010**	**30519**	**30.0**	**0.173**	**0.200**	**0.164**	**0.0026 U**	**0.0026 UJ**	**2.8 J**	**0.16 J**
05	011	30526	-1.0	0.47		1.79 J				
05	011	30527	0.0	0.75		2.19			<100	
05	011	30528	1.0	0.57		1.85 J				
05	011	30529	2.0	0.76		3.02 J			<100	
05	011	30530	3.0	0.89		2.38				
05	011	30531	4.0	1.21		1.91 J			<100	
05	011	30532	5.0	1.15		2.04 J				
05	011	30533	6.0	1.46		1.93 J			<100	
05	**011**	**30539**	**7.0**	**0.86**	**0.76**	**0.68**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.14 J**
05	011	30538	9.0	0.38		2.26				
05	011	30540	10.0	0.38		1.59 J			<100	
05	011	30545	11.0	0.08		3.14 J				
05	011	30546	12.0	0.37		1.07 J			<100	
05	011	30547	13.0	0.51		0.83 J				
05	011	30548	14.0	0.34		1.44 J			<100	
05	011	30553	15.0	0.35		1.39				
05	011	30554	16.0	0.25		1.71 J			<100	
05	**011**	**30564**	**17.0**	**0.265**	**0.41**	**0.42**	**0.0025 U**	**0.0025 UJ**	**0.69 J**	**0.083 J**
05	011	30565	19.0	0.41		0.96 J				
05	011	30566	20.0	0.16		0.39			<100	
05	011	30567	22.0	0.26		0.68 J			<100	
05	011	30568	23.0	0.03		0.62 UJ				
05	011	30569	24.0	0.50		1.51 J			<100	
05	011	30570	25.0	0.27		0.58 J				
05	011	30571	26.0	0.19		0.24 UJ			<100	
05	**011**	**30572**	**27.0**	**0.317**	**0.174**	**0.236**	**0.0025 U**	**0.0025 UJ**	**2.4 J**	**0.26 J**
05	011	30573	29.0	0.16		0.31				
05	**011**	**30574**	**30.0**	**0.316**	**0.228**	**0.247**	**0.0026 U**	**0.0026 UJ**	**5.2**	**0.29 J**
05	012	30204	-1.0	0.68		1.86 J			<100	
05	012	30205	0.0	0.50		1.45				
05	012	30206	1.0	0.74		5.32			<100	
05	012	30207	2.0	0.76		4.55 J				
05	012	30209	3.0	0.84		14.87 J			<100	
05	**012**	**30217**	**4.0**	**0.83**	**7.3**	**7.6**	**0.0028 U**	**0.0028 UJ**	**7.3**	**0.43 J**
05	012	30218	6.0	1.77		5.99				
05	012	30219	7.0	1.43		2.86			<100	
05	012	30220	8.0	1.47		2.74 J				
05	012	30221	9.0	0.37		1.15 J			<100	
05	012	30224	10.0	0.42		2.94				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	012	30225	11.0	0.06		1.98 J			<100	
05	012	30226	12.0	0.38		1.03 J				
05	012	30227	13.0	0.06		0.86 J			<100	
05	**012**	**30236**	**14.0**	**0.245**	**0.39**	**0.329**	**0.0025 U**	**0.0025 UJ**	**2.3 J**	**0.23 J**
05	012	30237	16.0	0.33		0.78 J				
05	012	30238	17.0	0.30		0.73 J			<100	
05	012	30242	18.0	0.37		1.09 J				
05	012	30243	19.0	0.29		0.84 J			<100	
05	012	30244	20.0	0.37		1.18				
05	012	30245	21.0	0.37		1.26 J			<100	
05	012	30254	22.0	0.36		0.92 J				
05	012	30255	23.0	0.22		0.88 J			<100	
05	**012**	**30256**	**24.0**	**0.162**	**0.51**	**0.58**	**0.0025 U**	**0.0025 UJ**	**1.7 J**	**0.18 J**
05	012	30257	26.0	0.26		1.47 J				
05	012	30258	27.0	0.17		0.63 J			<100	
05	012	30259	28.0	0.25		1.27				
05	012	30260	29.0	0.05		2.16			<100	
05	**012**	**30261**	**30.0**	**0.140**	**0.185**	**0.186**	**0.0025 U**	**0.0025 UJ**	**1.6 J**	**0.15 J**
05	013	30147	-1.0	1.10		5.16				
05	013	30148	0.0	1.19		4.35 J			<100	
05	**013**	**30149**	**1.0**	**0.81**	**1.03**	**0.88**	**0.0027 U**	**0.0015 J**	**4.2 J**	**0.37 J**
05	013	30150	3.0	0.75		1.70 J				
05	013	30151	4.0	0.43		1.16 J			<100	
05	013	30152	5.0	0.48		1.30 J				
05	013	30153	6.0	0.68		0.66			<100	
05	013	30155	7.0	0.86		1.90 J				
05	013	30156	8.0	1.06		1.27 J			<100	
05	013	30157	9.0	0.99		2.06				
05	013	30158	10.0	0.27		0.70			<100	
05	**013**	**30159**	**11.0**	**0.278**	**0.247**	**0.265**	**0.0025 U**	**0.0025 UJ**	**2.1 J**	**0.22 J**
05	013	30160	13.0	0.26		1.98				
05	013	30161	14.0	0.36		0.81 J			<100	
05	013	30162	15.0	0.07		1.37 J				
05	013	30163	16.0	0.21		0.44 J			<100	
05	013	30174	17.0	0.33		0.59 J				
05	013	30175	18.0	0.36		1.01 J			<100	
05	013	30182	19.0	0.03		2.00 J				
05	013	30183	20.0	0.26		1.06 J			<100	
05	**013**	**30184**	**21.0**	**0.61**	**0.307**	**0.262**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.17 J**
05	013	30185	23.0	0.37		0.91 J				
05	013	30186	24.0	0.08		2.45			<100	
05	013	30187	25.0	0.30		0.97 J				
05	013	30188	26.0	0.22		1.16 J			<100	
05	013	30189	27.0	0.29		0.91 J				
05	013	30198	28.0	0.25		0.70 J			<100	
05	013	30199	29.0	0.21		0.97				
05	**013**	**30200**	**30.0**	**0.216**	**0.199**	**0.155**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.15 J**
05	014	29910	-1.0	0.74		1.27 J				
05	014	29911	0.0	0.85		3.02 J			<100	
05	014	29912	2.0	0.93		3.10 J			<100	
05	014	29919	3.0	0.74		1.31 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	014	29917	4.0	0.97		4.37 J			<100	
05	014	29920	5.0	0.71		1.08 UJ				
05	014	29918	6.0	0.60		0.98 J			<100	
05	**014**	**29921**	**7.0**	**0.446**	**0.52**	**0.51**	**0.0025 U**	**0.0025 UJ**	**1.7 J**	**0.061 J**
05	014	29926	9.0	0.48		3.90				
05	014	29927	10.0	0.27		1.72 J			<100	
05	014	29928	12.0	0.35		0.77 J			<100	
05	014	29930	13.0	0.40		2.23				
05	014	29931	14.0	0.35		0.69 J			<100	
05	014	29932	15.0	0.25		0.41 UJ				
05	014	29933	16.0	0.30		1.34			<100	
05	**014**	**29934**	**17.0**	**0.212**	**0.220**	**0.330**	**0.0025 U**	**0.0025 UJ**	**1.5 J**	**0.12 J**
05	014	29935	19.0	0.43		1.28 J				
05	014	29936	20.0	0.35		2.47			<100	
05	014	29937	21.0	0.33		2.96 J				
05	014	29938	22.0	0.32		1.33 J			<100	
05	014	29939	24.0	0.29		1.99			<100	
05	014	29940	25.0	0.20		0.64 J				
05	014	29941	26.0	0.02		2.27 J			<100	
05	**014**	**29942**	**27.0**	**0.173**	**0.241**	**0.277**	**0.0025 U**	**0.0025 UJ**	**1.9 J**	**0.13 J**
05	014	29944	29.0	0.27		0.68 J				
05	**014**	**29943**	**30.0**	**0.195**	**0.238**	**0.280**	**0.0025 U**	**0.0025 UJ**	1.2 J	**0.12 J**
05	017	30587	-1.0	0.62		1.85 J				
05	017	30588	0.0	0.71		2.31 J			<100	
05	**017**	**30589**	**1.0**	**0.59**	**1.38**	**1.17**	**0.0028 U**	**0.0038 J**	**4.0 J**	**0.39 J**
05	017	30590	3.0	0.72		2.43 J				
05	017	30591	4.0	0.67		1.12 J			<100	
05	017	30592	5.0	0.67		1.87 J				
05	017	30593	6.0	1.01		1.86 J			<100	
05	017	30594	7.0	0.71		1.20 J				
05	017	30595	8.0	1.02		1.05 UJ			<100	
05	017	30596	9.0	0.41		0.57 UJ				
05	017	30597	10.0	0.24		0.37 UJ			<100	
05	**017**	**30598**	**11.0**	**0.247**	**0.280**	**0.221**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.13 J**
05	017	30599	13.0	0.37		0.89 J				
05	017	30600	14.0	0.32		0.31 UJ			<100	
05	017	30601	15.0	0.30		1.31 J				
05	017	30602	16.0	0.30		3.01 J			<100	
05	017	30603	17.0	0.29		1.47 J				
05	017	30604	18.0	0.23		0.44 UJ			<100	
05	017	30605	20.0	0.23		1.37 J			<100	
05	**017**	**30606**	**21.0**	**0.204**	**0.199**	**0.140**	**0.0025 U**	**0.0025 UJ**	**1.7 J**	**0.15 J**
05	017	30607	23.0	0.29		1.16 J				
05	017	30608	24.0	0.27		1.55 J			<100	
05	017	30609	25.0	0.19		0.57 J				
05	017	30610	26.0	0.17		1.40			<100	
05	017	30611	27.0	0.16		0.42 J				
05	017	30612	28.0	0.26		1.53 J			<100	
05	017	30613	29.0	0.29		0.35 J				
05	**017**	**30616**	**30.0**	**0.166**	**0.223**	**0.179**	**0.0025 U**	**0.0025 UJ**	**1.7 J**	**0.12 J**
05	018	30632	-1.0	0.63		1.63 J				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	018	30633	0.0	0.14 UJ		3.23			<100	
05	018	30634	1.0	0.79		2.36				
05	018	30635	2.0	0.83 J		7.89			<100	
05	018	30636	3.0	0.62		1.24 J				
05	018	30637	4.0	0.46		1.66			<100	
05	018	30638	5.0	0.48 J		1.98				
05	018	30639	6.0	0.75		0.45			<100	
05	**018**	**30640**	**7.0**	**0.316**	**0.37**	**0.35**	**0.0025 U**	**0.0025 UJ**	**2.8 J**	**0.12 J**
05	018	30646	9.0	0.47 J		0.45				
05	018	30647	10.0	0.25		1.40			<100	
05	018	30648	11.0	0.42 J		0.80 J				
05	018	30649	12.0	0.10		0.55			<100	
05	018	30650	13.0	0.28 J		0.67 J				
05	018	30651	14.0	0.26 J		0.93 J			<100	
05	018	30652	15.0	0.40		2.41				
05	018	30653	16.0	0.40		0.89 J			<100	
05	**018**	**30654**	**17.0**	**0.190**	**0.232**	**0.174**	**0.0025 U**	**0.0025 UJ**	**1.1 J**	**0.12 J**
05	018	30656	19.0	0.32 J		0.62				
05	018	30657	20.0	0.03		1.21 J			<100	
05	018	30658	21.0	0.22 J		0.78 J				
05	018	30659	22.0	0.19		0.52 J			<100	
05	018	30660	23.0	0.32		0.33				
05	018	30661	24.0	0.36 J		1.36			<100	
05	018	30664	25.0	0.23		1.01				
05	018	30665	26.0	0.32		1.27 J			<100	
05	**018**	**30666**	**27.0**	**0.211**	**0.193**	**0.203**	**0.0025 U**	**0.0025 UJ**	**1.2 J**	**0.21 J**
05	018	30669	29.0	0.07 UJ		1.71				
05	**018**	**30670**	**30.0**	**0.203**	**0.228**	**0.213**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.13 J**
05	019	30706	-1.0	0.72		2.61			<100	
05	019	30707	0.0	0.70		2.12 J				
05	019	30708	1.0	0.71		1.68 J			<100	
05	019	30709	2.0	0.93		1.69				
05	019	30710	3.0	0.99		3.88			<100	
05	**019**	**30711**	**4.0**	**0.45**	**0.94**	**0.83**	**0.0025 U**	**0.0025 UJ**	**2.5 J**	**0.21 J**
05	019	30714	6.0	0.40		1.25 J				
05	019	30715	7.0	0.32		1.37 J			<100	
05	019	30716	8.0	0.42		1.24 J				
05	019	30717	9.0	0.43		1.56 J			<100	
05	019	30718	10.0	0.34		1.20 J				
05	019	30719	11.0	0.37		0.46			<100	
05	019	30720	12.0	0.28		1.94 J				
05	019	30721	13.0	0.37		0.40			<100	
05	**019**	**30728**	**14.0**	**0.224**	**0.185**	**0.261**	**0.0025 U**	**0.0025 UJ**	**1.7 J**	**0.17 J**
05	019	30729	16.0	0.37		1.40 J				
05	019	30730	17.0	0.08		1.87			<100	
05	019	30732	18.0	0.08		1.49 J				
05	019	30731	19.0	0.40		1.15 J			<100	
05	019	30735	20.0	0.31		0.55				
05	019	30736	21.0	0.28		0.82			<100	
05	019	30737	22.0	0.20		0.49				
05	019	30738	23.0	0.31		1.57			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	**019**	**30739**	**24.0**	**0.125**	**0.105**	**0.133**	**0.0026 U**	**0.0026 UJ**	**1.4 J**	**0.12 J**
05	019	30740	26.0	0.27		1.20				
05	019	30741	27.0	0.20		0.48 J			<100	
05	019	30742	28.0	0.31		1.29 J				
05	019	30743	29.0	0.29		1.05 J			<100	
05	**019**	**30744**	**30.0**	**0.109**	**0.207**	**0.160**	**0.0026 U**	**0.0026 UJ**	**3.2 J**	**0.13 J**
05	021	30410	-1.0	0.59		1.29 J				
05	021	30411	0.0	0.87		2.96			<100	
05	021	30412	2.0	0.79		1.97			<100	
05	021	30413	3.0	0.79		2.33				
05	021	30414	4.0	0.80		1.26			<100	
05	021	30415	5.0	0.60		1.84 J				
05	021	30416	6.0	0.29		1.53			<100	
05	**021**	**30417**	**7.0**	**0.73**	**0.83**	**0.79**	**0.0025 U**	**0.0025 UJ**	**3.3 J**	**0.27 J**
05	021	30418	9.0	1.13		0.80 J				
05	021	30419	10.0	0.83		2.53			<100	
05	021	30420	11.0	0.67		0.63				
05	021	30421	12.0	0.26		0.52			<100	
05	021	30422	13.0	0.50		1.63				
05	021	30423	14.0	0.27		1.02 J			<100	
05	021	30424	16.0	0.33		1.38 J			<100	
05	**021**	**30425**	**17.0**	**0.167**	**0.211**	**0.173**	**0.0026 U**	**0.0026 UJ**	**2.0 J**	**0.21 J**
05	021	30426	19.0	0.25		2.27 J				
05	021	30427	20.0	0.24		0.39			<100	
05	021	30428	21.0	0.23		0.98 J				
05	021	30429	22.0	0.29		1.08 J			<100	
05	021	30436	24.0	0.33		1.31 J			<100	
05	021	30437	25.0	0.29		2.63				
05	021	30438	26.0	0.33		2.17 J			<100	
05	**021**	**30443**	**27.0**	**0.218**	**0.290**	**0.227**	**0.0025 U**	**0.0025 UJ**	**5.7**	**0.20 J**
05	021	30444	29.0	0.25		1.96				
05	**021**	**30447**	**30.0**	**0.174**	**0.273**	**0.257**	**0.0026 U**	**0.0026 UJ**	**6.2**	**0.15 J**
05	022	30352	-1.0	0.51		0.76			<100	
05	022	30353	1.0	0.99		2.46 J			<100	
05	022	30354	2.0	0.85		8.21				
05	022	30355	3.0	0.95		4.20			<100	
05	**022**	**30356**	**4.0**	**0.74**	**0.58**	**0.57**	**0.0025 U**	**0.0025 UJ**	**7.4**	**0.43 J**
05	022	30357	6.0	1.42		2.04				
05	022	30358	7.0	1.17		2.61 J			<100	
05	022	30359	8.0	0.82		1.90 J				
05	022	30360	9.0	0.57		0.66			<100	
05	022	30361	10.0	1.26		3.24				
05	022	30362	11.0	0.89		3.68			<100	
05	022	30365	12.0	0.78		2.76 J				
05	022	30366	13.0	0.24		0.68 J			<100	
05	**022**	**30370**	**14.0**	**0.156**	**0.37**	**0.36**	**0.0025 U**	**0.0025 UJ**	**2.2 J**	**0.15 J**
05	022	30371	16.0	0.48		1.52 J				
05	022	30372	17.0	0.23		1.32 J			<100	
05	022	30386	18.0	0.26		1.24				
05	022	30387	19.0	0.33		1.47			<100	
05	022	30388	21.0	0.32		0.78 J			<100	

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	022	30389	22.0	0.27		0.58				
05	022	30390	23.0	0.29		0.36			<100	
05	**022**	**30391**	**24.0**	**0.125**	**0.230**	**0.188**	**0.0025 U**	**0.0025 UJ**	**1.3 J**	**0.13 J**
05	022	30392	26.0	0.33		2.40				
05	022	30393	27.0	0.48		0.83 J			<100	
05	022	30396	28.0	0.36		1.23				
05	022	30397	29.0	0.19		1.50 J			<100	
05	**022**	**30398**	**30.0**	**0.219**	**0.176**	**0.173**	**0.0025 U**	**0.0025 UJ**	**2.2 J**	**0.13 J**
05	023	30678	0.0	0.65		0.70			<100	
05	**023**	**30679**	**1.0**	**0.63**	**0.89**	**0.81**	**0.0028 U**	**0.019 J**	**5.3 J**	**0.41 J**
05	023	30680	3.0	0.48		1.33 J				
05	023	30681	4.0	0.77		1.27 J			<100	
05	023	30682	5.0	0.54		2.33				
05	023	30683	6.0	0.67 J		2.20			<100	
05	023	30684	7.0	0.60		0.78 J				
05	023	30685	8.0	1.19 J		1.64 J			<100	
05	023	30686	9.0	1.08		3.37				
05	023	30687	10.0	0.26		0.68 J			<100	
05	**023**	**30688**	**11.0**	**0.199**	**0.295**	**0.213**	**0.0026 U**	**0.0026 UJ**	**1.9 J**	**0.14 J**
05	023	30689	13.0	0.34		1.84				
05	023	30690	14.0	0.38 J		1.36 J			<100	
05	023	30691	15.0	0.47		0.47				
05	023	30692	16.0	0.31		1.05 J			<100	
05	023	30693	17.0	0.22		2.41				
05	023	30694	18.0	0.21		1.56 J			<100	
05	023	30695	19.0	0.28		1.33 J				
05	023	30696	20.0	0.07		0.47 J			<100	
05	**023**	**30697**	**21.0**	**0.252**	**0.176**	**0.264**	**0.0026 U**	**0.0026 UJ**	**0.82 J**	**0.088 J**
05	023	30698	23.0	0.24		0.56 J				
05	023	30699	24.0	0.27		0.53			<100	
05	023	30700	25.0	0.21		1.41				
05	023	30701	26.0	0.21		1.34			<100	
05	023	30702	27.0	0.25		0.74 J				
05	023	30703	28.0	0.32		1.77			<100	
05	023	30704	29.0	0.24 J		1.07 J				
05	**023**	**30705**	**30.0**	**0.263**	**0.236**	**0.231**	**0.0026 U**	**0.0026 UJ**	**1.0 J**	**0.16 J**
05	024	29836	2.0	0.78		20.57			<100	
05	024	29837	4.0	0.65		4.67			68.3 J	
05	024	29842	5.0	0.48		4.22				
05	024	29843	6.0	0.95		0.80 J			<100	
05	**024**	**29847**	**7.0**	**0.95**	**0.93**	**0.84**	**0.0026 U**	**0.0026 UJ**	**4.1 J**	**0.31 J**
05	024	29848	9.0	0.47		2.15 J				
05	024	29849	10.0	0.24		2.36			<100	
05	024	29850	11.0	0.39		1.59				
05	024	29851	12.0	0.35		0.53			<100	
05	024	29852	13.0	0.49		1.73				
05	024	29853	14.0	0.34		0.39			<100	
05	024	29854	15.0	0.07		2.07				
05	024	29855	16.0	0.21		0.32			<100	
05	**024**	**29862**	**17.0**	**0.227**	**0.46**	**0.333**	**0.0025 U**	**0.0025 UJ**	**1.2 J**	**0.13 J**
05	024	29867	19.0	0.25		1.82				

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	024	29868	20.0	0.24		0.28 J			<100	
05	024	29869	21.0	0.28		1.59				
05	024	29870	22.0	0.17		0.49			<100	
05	024	29871	23.0	0.29		1.90				
05	024	29872	24.0	0.26		0.46 J			<100	
05	024	29877	25.0	0.25		5.41				
05	024	29878	26.0	0.22		0.64			<100	
05	**024**	**29881**	**27.0**	**0.212**	**0.212**	**0.190**	**0.0025 U**	**0.0025 UJ**	**2.1 J**	**0.17 J**
05	024	29882	29.0	0.21		1.10				
05	**024**	**29883**	**30.0**	**0.211**	**0.252**	**0.212**	**0.0025 U**	**0.0025 UJ**	**1.6 J**	**0.13 J**

Table 1
SU03, SU04 and SU05 Soil Boring Sample Results

Analytes:

Th-232 - Thorium-232
U-234 - Uranium-234
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel
Be - Beryllium

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

R - Validation qualifier used to indicate that the result is considered unusable.
U - Validation qualifier used to indicate that the result was qualified as non-detect.
J - Validation qualifier used to indicate that the result is considered an estimate.
UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 1 for boring locations.
DL sample is analyzed on Site for radionuclides (Th-232 and U-238) using the gamma spectroscopy system.
DL sample is analyzed on Site for Ni using x-ray fluorescence spectroscopy by Stone Environmental Inc. Ni result that is between the detection lin of 40 mg/kg and the reporting limit of 100 mg/kg is estimated. Ni result that is less than the detection limit of 40 mg/kg is reported as less than the reporting limit (<100 mg/kg).
DL sample is analyzed for volatile organic compounds (TCE and PCE) using solid phase microextraction and capillary gas chromatography by Stone Environmental Inc.
SP sample result is bold and indicates that analysis was performed off Site by Severn Trent Laboratories, Inc.
NS - Not sampled due to insufficient recovery.
Due to an artifact in the laboratory data reporting program, the on-Site analytical data should be interpreted to two significant figures.
Blank cell indicates analysis was not performed.
Result is above Site cleanup level.

Table 2
SU03, SU04 and SU05 Soil Boring Sample Results
Severn Trent Laboratories, Inc.

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	001	26658	4.0	0.45	0.85	0.42	0.0025 U	0.0025 U	2.3 J	0.14 J
03	001	26673	14.0	0.306	0.51	0.382	0.0026 U	0.0026 U	1.3 J	0.17 J
03	001	26698	24.0	0.120	0.173	0.178	0.0027 U	0.0027 U	1.5 J	0.14 J
03	001	26709	30.0	0.094 J	0.121	0.136	0.0026 U	0.0026 U	1.4 J	0.15 J
03	002	26414	1.0	0.81	9.8	6.50	0.0025 U	0.0027 U	6.8	0.34 J
03	002	26446	11.0	0.144	0.209	0.186	0.0026 U	0.0026 U	1.3 J	0.13 J
03	002	26479	21.0	0.119	0.158	0.199	0.00075 J	0.0025 U	1.6 J	0.087 J
03	002	26504	30.0	0.218	0.153	0.172	0.0012 J	0.0026 U	2.3 J	0.16 J
03	003	26539	7.0	0.87	0.55	0.72	0.0026 U	0.0026 U	2.9 J	0.14 J
03	003	26566	17.0	0.151	0.215	0.188	0.0026 U	0.0026 U	4.8	0.19 J
03	003	26617	27.0	0.207	0.171	0.202	0.0026 U	0.0026 U	1.7 J	0.13 J
03	003	26619	30.0	0.148	0.218	0.186	0.0027 U	0.0027 U	2.3 J	0.15 J
03	004	26723	1.0	0.95	9.2	5.87	0.0076 J	0.042	10.1	0.55 J
03	004	26779	11.0	0.137	0.290	0.253	0.0025 R	0.0025 U	1.1 J	0.082 J
03	004	26813	21.0	0.177	0.151	0.155	0.0025 R	0.0025 U	1.1 J	0.088 J
03	004	26832	30.0	0.143	0.212	0.246	0.0025 R	0.0025 U	1.6 J	0.11 J
03	005	26856	7.0	0.66	2.32	1.82	0.0028 U	0.0028 U	11.9	0.85
03	005	26896	17.0	0.168	0.192	0.144	0.0025 U	0.0025 U	2.3 J	0.24 J
03	005	26926	27.0	0.152	0.173	0.122	0.0025 U	0.0025 U	1.5 J	0.21 J
03	005	26936	30.0	0.162	0.197	0.186	0.0025 U	0.0025 U	2.7 J	0.32 J
03	006	27089	4.0	0.81	6.33	5.31	0.0016 J	0.022 J	9.2	0.36 J
03	006	27118	14.0	0.206	0.291	0.286	0.0025 U	0.0025 U	1.9 J	0.26 J
03	006	27166	24.0	0.256	0.54	0.51	0.0026 U	0.0026 U	1.4 J	0.17 J
03	006	27171	30.0	0.429	0.64	0.58	0.0025 U	0.0025 U	1.8 J	0.19 J
03	007	27738	7.0	1.17	2.05	1.65	0.0025 U	0.0025 UJ	4.0 J	0.27 J
03	007	27752	17.0	0.240	0.323	0.297	0.0026 U	0.0026 U	0.95 J	0.083 J
03	007	27761	27.0	0.273	0.220	0.236	0.0025 U	0.0025 U	1.4 J	0.13 J
03	007	27766	30.0	0.174	0.170	0.211	0.00048 J	0.00065 J	2.4 J	0.13 J
03	008	27626	4.0	0.95	1.06	1.00	0.00095 J	0.020 U	8.7	0.51 J
03	008	27658	14.0	0.254	0.79	0.47	0.0025 U	0.0025 UJ	1.7 J	0.16 J
03	008	27678	24.0	0.231	0.422	0.258	0.0025 U	0.0025 UJ	1.3 J	0.13 J
03	008	27697	30.0	0.142	0.233	0.198	0.0025 U	0.0025 UJ	1.4 J	0.19 J
03	009	27404	1.0	0.68	5.79	3.92	0.0013 J	0.019	18.5	0.43 J
03	009	27426	11.0	0.378	1.86	1.49	0.0025 U	0.0025 U	1.7 J	0.22 J
03	009	27439	21.0	0.196	0.422	0.447	0.0025 U	0.0025 U	1.1 J	0.11 J
03	009	27452	30.0	0.212	0.71	0.67	0.0026 U	0.0026 U	2.5 J	0.20 J
03	010	27256	7.0	0.62	2.59	2.66	0.0025 U	0.0060	2.7 J	0.26 J
03	010	27280	17.0	0.107	0.429	0.401	0.0025 U	0.0025 U	1.1 J	0.041 J
03	010	27298	27.0	0.329	0.35	0.221	0.0026 U	0.0026 U	1.2 J	0.51 U
03	010	27300	30.0	0.291	0.229	0.237	0.0025 U	0.0025 U	1.5 J	0.081 J
03	011	27856	1.0	0.58	4.92	3.37	0.00053 J	0.0017 J	26.0	0.31 J
03	011	27867	11.0	0.277	0.61	0.53	0.0026 U	0.0026 U	2.3 J	0.23 J
03	011	27885	21.0	0.160	0.77	0.57	0.0025 U	0.0025 U	1.3 J	0.19 J
03	011	27912	30.0	0.152	1.46	1.30	0.0025 U	0.0025 U	2.1 J	0.21 J
03	012	27474	7.0	0.59	0.49	0.359	0.0025 U	0.00062 J	3.7 J	0.23 J
03	012	27497	17.0	0.126	0.138	0.118	0.0025 U	0.0025 U	0.71 J	0.080 J
03	012	27533	27.0	0.201	0.190	0.193	0.0025 U	0.0025 U	1.8 J	0.13 J
03	012	27535	30.0	0.130	0.170	0.157	0.0025 U	0.0025 U	1.8 J	0.13 J
03	013	27321	4.0	0.82	6.74	6.38	0.110 J	5.1 J	34.3 J	0.36 J
03	013	27336	14.0	0.184	0.80	0.84	0.0026 U	0.00068 J	1.9 J	0.19 J
03	013	27366	24.0	0.268	0.258	0.212	0.0025 U	0.0011 J	1.5 J	0.13 J
03	013	27382	30.0	0.224	0.241	0.128	0.0025 U	0.0025 U	1.6 J	0.15 J

Table 2
SU03, SU04 and SU05 Soil Boring Sample Results
Severn Trent Laboratories, Inc.

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
03	014	28134	7.0	0.41	4.97	5.12	0.00059 J	0.0025 U	3.9 J	0.15 J
03	014	28152	17.0	0.136	0.78	0.71	0.00045 J	0.0025 U	1.7 J	0.12 J
03	014	28170	27.0	0.164	0.61	0.61	0.0025 U	0.0025 U	1.4 J	0.13 J
03	014	28175	30.0	0.153	0.307	0.347	0.0025 U	0.0025 U	2.0 J	0.21 J
03	015	27958	4.0	0.79	9.0	8.0	0.0055	0.390 U	37.8	0.39 J
03	015	27974	14.0	0.123	1.06	0.94	0.0025 U	0.0025 U	5.1	0.20 J
03	015	27998	24.0	0.191	0.431	0.468	0.0025 U	0.0025 U	3.6 J	0.43 J
03	015	28011	30.0	0.162	0.320	0.268	0.0025 U	0.0025 U	3.2 J	0.26 J
03	016	27567	1.0	0.87	8.6	7.9	0.0027 R	0.0027 R	5.6	0.28 J
03	016	27576	11.0	0.142	0.82	0.76	0.0025 U	0.0020 J	1.4 J	0.14 J
03	016	27590	21.0	0.148	0.52	0.62	0.0025 U	0.0025 U	0.81 J	0.081 J
03	016	27606	30.0	0.203	0.236	0.284	0.0026 U	0.0026 U	1.5 J	0.12 J
03	018	28020	1.0	0.61	2.10	2.08	0.0026 U	0.0066	21.5	0.36 J
03	018	28041	11.0	0.174	8.2	8.9	0.0025 U	0.0025 U	10.3	0.30 J
03	018	28060	21.0	0.447	4.31	4.18	0.0025 U	0.0025 U	1.8 J	0.22 J
03	018	28081	30.0	0.194	2.58	2.57	0.0025 U	0.0025 U	4.9	0.24 J
03	019	28216	7.0	1.59	1.22	1.36	0.0011 J	0.0010 J	10.4	0.62
03	019	28241	17.0	0.139	0.279	0.296	0.0025 U	0.0025 U	1.8 J	0.058 J
03	019	28263	27.0	0.178	0.313	0.235	0.0025 U	0.0025 U	2.9 J	0.12 J
03	019	28270	30.0	0.217	0.383	0.394	0.0026 U	0.0026 U	3.0 J	0.24 J
03	020	28329	4.0	0.74	3.60	3.23	0.00082 J	0.034	4.4	0.25 J
03	020	28341	14.0	0.271	0.51	0.411	0.0025 U	0.0025 U	1.7 J	0.18 J
03	020	28351	24.0	0.266	0.185	0.219	0.0026 U	0.0026 U	1.3 J	0.093 J
03	020	28364	30.0	0.163	0.186	0.165	0.0025 U	0.0025 U	2.1 J	0.12 J
03	022	28275	1.0	0.73	16.2	16.3	0.0052 U	0.087 U	105	0.43 J
03	022	28284	11.0	0.177	0.381	0.304	0.0025 U	0.0025 U	2.0 J	0.15 J
03	022	28300	21.0	0.240	0.139	0.209	0.0025 U	0.0025 U	1.0 J	0.12 J
03	022	28317	30.0	0.229	0.212	0.197	0.0026 U	0.0026 U	2.6 J	0.18 J
03	023	28385	7.0	0.75	0.58	0.55	0.0025 U	0.0025 U	2.5 J	0.13 J
03	023	28393	17.0	0.208	0.246	0.209	0.0025 U	0.0025 U	2.3 J	0.13 J
03	023	28405	27.0	0.151	0.131	0.157	0.0026 U	0.0026 U	3.6 J	0.14 J
03	023	28411	30.0	0.258	0.236	0.247	0.0025 U	0.0025 U	4.8	0.17 J
04	001	28913	4.0	0.363	0.332	0.369	0.0028 U	0.0028 U	2.5 J	0.17 J
04	001	28939	14.0	0.283	0.144	0.225	0.0026 U	0.0026 U	1.6 J	0.15 J
04	001	28960	24.0	0.241 J	0.177	0.171	0.0027 U	0.0027 U	1.2 J	0.059 J
04	001	28970	30.0	0.134	0.114	0.136	0.0026 U	0.0026 U	2.5 J	0.13 J
04	002	28756	1.0	1.00	0.95	0.85	0.0030 U	0.0033	9.9	0.75
04	002	28773	11.0	0.203	0.187	0.176	0.0026 U	0.0026 U	1.6 J	0.12 J
04	002	28789	21.0	0.163	0.178	0.177	0.0026 U	0.0026 U	0.99 J	0.11 J
04	002	28798	30.0	0.228	0.263	0.171	0.0026 U	0.0026 U	1.5 J	0.20 J
04	003	28718	7.0	0.230	0.66	0.89	0.0026 U	0.0026 U	2.7 J	0.26 J
04	003	28733	17.0	0.158	0.216	0.175	0.0027 U	0.0027 U	1.6 J	0.22 J
04	003	28742	27.0	0.124	0.146	0.186	0.0026 U	0.0026 U	0.95 J	0.20 J
04	003	28744	30.0	0.138	0.242	0.184	0.0026 U	0.0026 U	1.5 J	0.18 J
04	004	29001	11.0	0.249	0.303	0.315	0.0025 U	0.0025 U	1.2 J	0.15 J
04	004	29013	21.0	0.406 J	0.288	0.294	0.0026 U	0.0026 U	1.8 J	0.15 J
04	004	29025	30.0	0.237	0.77	0.293	0.0026 U	0.0026 U	1.7 J	0.13 J
04	005	28814	7.0	0.192	0.274	0.338	0.0026 U	0.0026 U	2.8 J	0.27 J
04	005	28826	17.0	0.188	0.129	0.161	0.0026 U	0.0026 U	1.4 J	0.089 J
04	005	28849	27.0	0.106	0.143	0.115	0.0026 U	0.0026 U	2.1 J	0.15 J
04	005	28856	30.0	0.185	0.182	0.253	0.0026 U	0.0026 U	2.4 J	0.22 J
04	006	28872	4.0	0.56	0.324	0.339	0.0025 U	0.0025 U	2.6 J	0.16 J

Table 2
SU03, SU04 and SU05 Soil Boring Sample Results
Severn Trent Laboratories, Inc.

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	006	28884	14.0	0.220	0.201	0.159	0.0025 U	0.0025 U	2.5 J	0.15 J
04	006	28893	24.0	0.276	0.194	0.195	0.0026 U	0.0026 U	0.90 J	0.070 J
04	006	28900	30.0	0.126 J	0.151	0.180	0.0026 U	0.0026 U	2.5 J	0.16 J
04	007	28431	1.0	0.82	7.85	4.71	0.0016 J	0.012 U	8.8	0.40 J
04	007	28440	11.0	0.265	0.360	0.267	0.0025 U	0.0025 U	2.1 J	0.18 J
04	007	28454	21.0	0.124	0.180	0.153	0.0025 U	0.0025 U	1.3 J	0.13 J
04	007	28468	30.0	0.108	0.143	0.199	0.0025 U	0.0025 U	0.38 J	0.12 J
04	008	29112	4.0	0.432 J	0.47	0.44	0.0025 U	0.0025 U	1.1 J	0.27 J
04	008	29132	14.0	0.162 J	0.191	0.185	0.0025 U	0.0025 U	1.4 J	0.089 J
04	008	29149	24.0	0.151 J	0.231	0.168	0.0025 U	0.0025 U	0.75 J	0.5 U
04	008	29164	30.0	0.130 J	0.197	0.184	0.0025 U	0.0025 U	1.8 J	0.11 J
04	009	29053	1.0	NS	NS	NS	0.0027 R	0.0027 R	8.6	0.49 J
04	009	29063	11.0	0.183 J	0.381	0.303	0.0025 U	0.0025 U	1.8 J	0.12 J
04	009	29078	21.0	0.174 J	0.293	0.281	0.00075 J	0.470 J	0.74 J	0.16 J
04	009	29094	30.0	0.201 J	0.265	0.239	0.0025 U	0.032	1.0 J	0.12 J
04	010	28492	7.0	0.68	0.69	0.61	0.0025 U	0.0025 U	2.7 J	0.24 J
04	010	28501	17.0	0.200	0.49	0.62	0.0025 U	0.0020 J	0.68 J	0.085 J
04	010	28512	27.0	0.267	0.301	0.296	0.0025 U	0.0025 U	2.3 J	0.13 J
04	010	28516	30.0	0.280	0.260	0.349	0.0025 U	0.00089 J	1.7 J	0.29 J
04	011	29412	1.0	0.70	0.96	0.73	0.0027 U	0.0022 J	5.0	0.29 J
04	011	29426	11.0	0.184	0.238	0.222	0.0025 U	0.0025 UJ	1.6 J	0.13 J
04	011	29439	21.0	0.249	0.198	0.208	0.0025 U	0.0025 UJ	0.89 J	0.10 J
04	011	29450	30.0	0.228	0.192	0.136	0.0025 U	0.0025 UJ	0.78 J	0.093 J
04	012	29377	7.0	0.85	0.53	0.66	0.0027 U	0.0027 U	4.2	0.26 J
04	012	29389	17.0	0.155	0.205	0.165	0.0025 U	0.0025 U	1.1 J	0.055 J
04	012	29398	27.0	0.094 J	0.122	0.130	0.0025 U	0.0025 UJ	1.9 J	0.22 J
04	012	29400	30.0	0.097 J	0.075 J	0.123	0.0025 U	0.0025 UJ	2.0 J	0.21 J
04	013	29299	4.0	0.478 J	0.85	0.65	0.0025 U	0.0025 U	4.1	0.19 J
04	013	29319	14.0	0.233 J	0.202	0.194	0.0025 U	0.0025 U	1.6 J	0.11 J
04	013	29337	24.0	0.233	0.185	0.203	0.0025 U	0.0025 U	1.4 J	0.11 J
04	013	29344	30.0	0.176	0.147	0.161	0.0025 U	0.0025 U	1.9 J	0.10 J
04	014	28536	1.0	0.46	1.78	1.53	0.0026 U	0.014	14.6	0.34 J
04	014	28550	11.0	0.196	0.406	0.420	0.0025 U	0.0025 U	0.83 J	0.14 J
04	014	28562	21.0	0.168	0.408	0.335	0.0025 U	0.0025 U	4 U	0.051 J
04	014	28570	30.0	0.216	0.347	0.366	0.0025 U	0.0025 U	0.46 J	0.076 J
04	015	29712	11.0	0.84	1.47	1.49	0.0029 U	0.0029 UJ	12.3	0.37 J
04	015	29731	21.0	0.200	0.256	0.342	0.0025 U	0.0025 UJ	1.6 J	0.16 J
04	015	29749	30.0	0.171	0.289	0.282	0.0025 U	0.0025 UJ	1.8 J	0.18 J
04	016	29655	4.0	0.76	5.82	5.64	0.0027 U	0.0027 J	6.2	0.37 J
04	016	29668	14.0	0.179	0.81	0.71	0.0025 U	0.0025 UJ	1.5 J	0.16 J
04	016	29686	24.0	0.142	0.236	0.234	0.0025 U	0.0025 UJ	1.4 J	0.14 J
04	016	29697	30.0	0.126	0.331	0.233	0.0025 U	0.0025 UJ	2.0 J	0.14 J
04	017	29542	1.0	0.81	8.0	7.6	0.0014 J	0.032 J	30.8	0.34 J
04	017	29607	11.0	0.289	0.55	0.54	0.0026 U	0.0026 UJ	0.98 J	0.13 J
04	017	29616	21.0	0.202	0.424	0.45	0.0026 U	0.0026 UJ	1.0 J	0.17 J
04	017	29627	30.0	0.126	0.268	0.226	0.0026 U	0.0026 UJ	1.3 J	0.15 J
04	018	28654	7.0	0.341	0.52	0.48	0.0025 U	0.0025 U	3.1 J	0.22 J
04	018	28668	17.0	0.202	0.48	0.388	0.0025 U	0.0025 U	0.28 J	0.066 J
04	018	28681	27.0	0.112	0.268	0.230	0.0025 U	0.0025 U	2.4 J	0.12 J
04	018	28684	30.0	0.168	0.361	0.288	0.0026 U	0.0056	3.0 J	0.15 J
04	019	29764	11.0	0.242	1.49	1.42	0.0026 U	0.0026 UJ	3.3 J	0.22 J
04	019	29773	21.0	0.134	6.24	6.32	0.0025 U	0.0025 UJ	2.1 J	0.12 J

Table 2
SU03, SU04 and SU05 Soil Boring Sample Results
Severn Trent Laboratories, Inc.

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
04	019	29783	30.0	0.142	2.01	2.34	0.0025 U	0.0025 UJ	3.2 J	0.19 UJ
04	020	29798	7.0	0.222	14.1	12.7	0.0025 U	0.0025 UJ	102 J	0.14 UJ
04	020	29813	17.0	0.211	9.2	9.3	0.0025 U	0.0025 UJ	2.5 J	0.083 UJ
04	020	29830	27.0	0.124	7.7	8.1	0.0025 U	0.0025 UJ	1.9 J	0.15 UJ
04	020	29832	30.0	0.247	9.9	10.7	0.0026 U	0.0026 UJ	1.8 J	0.18 J
04	021	29495	4.0	0.61	9.1	8.9	0.0027 U	0.010 J	42.3	0.35 J
04	021	29508	14.0	0.236	1.11	1.26	0.0026 U	0.0026 UJ	3.0 J	0.13 J
04	021	29526	24.0	0.167	0.70	0.75	0.0026 U	0.0026 UJ	0.56 J	0.088 J
04	021	29538	30.0	0.361	0.465	0.326	0.0025 U	0.0025 UJ	2.2 J	0.16 J
04	022	28575	1.0	0.66	2.05	2.14	0.00064 J	0.023	1.1 J	0.16 J
04	022	28593	11.0	0.168	0.350	0.308	0.0025 U	0.0025 U	5.5	0.29 J
04	022	28604	21.0	0.125	0.268	0.203	0.0025 U	0.0025 U	1.1 J	0.12 J
04	022	28622	30.0	0.135	0.155	0.172	0.0026 U	0.0026 U	1.4 J	0.13 J
05	001	30367	1.0	0.383	0.58	0.59	0.0026 R	0.0026 R	2.9 J	0.20 J
05	001	30379	11.0	0.311	0.271	0.203	0.0025 U	0.0025 UJ	2.7 J	0.19 J
05	001	30401	21.0	0.245	0.196	0.198	0.0025 U	0.0025 UJ	1.9 J	0.15 J
05	001	30409	30.0	0.127	0.174	0.105	0.0025 U	0.0025 UJ	1.9 J	0.14 J
05	002	30331	7.0	0.54	0.346	0.43	0.0025 U	0.0025 UJ	1.4 J	0.13 J
05	002	30340	17.0	0.158	0.200	0.138	0.0025 U	0.0025 UJ	1.8 J	0.12 J
05	002	30350	27.0	0.202	0.155	0.182	0.0025 U	0.0025 UJ	1.4 J	0.12 J
05	002	30351	30.0	0.129	0.182	0.162	0.0025 U	0.0025 UJ	2.7 J	0.15 J
05	003	30040	4.0	0.375	2.79	2.80	0.0025 U	0.0025 UJ	2.3 J	0.21 J
05	003	30055	14.0	0.212	0.79	0.80	0.0026 U	0.0026 UJ	4.0 J	0.30 J
05	003	30075	24.0	0.172	0.185	0.169	0.0026 U	0.0026 UJ	1.7 J	0.11 J
05	003	30086	30.0	0.149	0.340	0.46	0.0026 U	0.0026 UJ	2.6 J	0.18 J
05	004	29985	1.0	0.54	6.81	6.87	0.0027 U	0.00068 J	15.2	0.27 J
05	004	29993	11.0	0.193	0.38	0.44	0.0026 U	0.0026 UJ	1.5 J	0.20 J
05	004	30017	21.0	0.197	1.29	1.17	0.0026 U	0.0026 UJ	2.7 J	0.15 J
05	004	30032	30.0	0.147	0.51	0.44	0.0026 U	0.0026 UJ	2.6 J	0.31 J
05	005	29898	7.0	0.281	0.43	0.42	0.0025 U	0.0025 UJ	0.86 J	0.10 J
05	005	29907	17.0	0.308	0.57	0.68	0.0028 U	0.0028 UJ	1.6 J	0.11 J
05	005	29924	27.0	0.158	0.310	0.280	0.0026 U	0.0026 UJ	2.0 J	0.13 J
05	005	29929	30.0	0.254	1.53	1.53	0.0026 U	0.0026 UJ	3.1 J	0.11 J
05	006	30435	4.0	0.91	0.66	0.66	0.0027 U	0.0027 UJ	6.9	0.39 J
05	006	30452	14.0	0.300	0.210	0.219	0.0026 U	0.0026 UJ	1.4 J	0.11 J
05	006	30461	24.0	0.115	0.187	0.268	0.0026 U	0.0026 UJ	1.1 J	0.099 J
05	006	30466	30.0	0.174	0.193	0.166	0.0028 U	0.0028 UJ	2.2 J	0.22 J
05	007	30282	1.0	0.409	2.94	2.79	0.0025 U	0.0025 UJ	4.3 J	0.37 J
05	007	30291	11.0	0.209	0.292	0.237	0.0025 U	0.0025 UJ	3.4 J	0.20 J
05	007	30304	21.0	0.288	0.192	0.213	0.0025 U	0.0025 U	2.0 J	0.22 J
05	007	30319	30.0	0.212	0.175	0.200	0.0025 U	0.0025 UJ	2.7 J	0.16 J
05	008	30098	7.0	0.60	1.66	1.54	0.0026 U	0.0026 UJ	2.0 J	0.18 J
05	008	30113	17.0	0.069 J	0.52	0.54	0.0025 U	0.0025 UJ	1.3 J	0.11 J
05	008	30127	27.0	0.120	0.203	0.228	0.0026 U	0.0026 UJ	1.8 J	0.16 J
05	008	30133	30.0	0.146 J	0.55	0.54	0.0026 U	0.0026 UJ	1.9 J	0.20 J
05	009	29951	4.0	0.85	1.57	1.57	0.0025 U	0.0025 UJ	2.4 J	0.11 J
05	009	29961	14.0	0.212	0.234	0.261	0.0025 U	0.0025 UJ	2.5 J	0.19 J
05	009	29970	24.0	0.250	0.177	0.142	0.0026 U	0.0026 UJ	1.2 J	0.11 J
05	009	29975	30.0	0.210	0.105	0.151	0.0026 U	0.0026 UJ	1.5 J	0.14 J
05	010	30469	1.0	0.62	0.40	0.46	0.0028 U	0.00070 J	3.5 J	0.34 J
05	010	30484	11.0	0.166	0.198	0.195	0.0025 U	0.0025 UJ	2.0 J	0.11 J
05	010	30499	21.0	0.176	0.147	0.182	0.0025 U	0.0025 UJ	1.3 J	0.13 J

Table 2
SU03, SU04 and SU05 Soil Boring Sample Results
Severn Trent Laboratories, Inc.

Survey Unit	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
05	010	30519	30.0	0.173	0.200	0.164	0.0026 U	0.0026 UJ	2.8 J	0.16 J
05	011	30539	7.0	0.86	0.76	0.68	0.0025 U	0.0025 UJ	1.9 J	0.14 J
05	011	30564	17.0	0.265	0.41	0.42	0.0025 U	0.0025 UJ	0.69 J	0.083 J
05	011	30572	27.0	0.317	0.174	0.236	0.0025 U	0.0025 UJ	2.4 J	0.26 J
05	011	30574	30.0	0.316	0.228	0.247	0.0026 U	0.0026 UJ	5.2	0.29 J
05	012	30217	4.0	0.83	7.3	7.6	0.0028 U	0.0028 UJ	7.3	0.43 J
05	012	30236	14.0	0.245	0.39	0.329	0.0025 U	0.0025 UJ	2.3 J	0.23 J
05	012	30256	24.0	0.162	0.51	0.58	0.0025 U	0.0025 UJ	1.7 J	0.18 J
05	012	30261	30.0	0.140	0.185	0.186	0.0025 U	0.0025 UJ	1.6 J	0.15 J
05	013	30149	1.0	0.81	1.03	0.88	0.0027 U	0.0015 J	4.2 J	0.37 J
05	013	30159	11.0	0.278	0.247	0.265	0.0025 U	0.0025 UJ	2.1 J	0.22 J
05	013	30184	21.0	0.61	0.307	0.262	0.0025 U	0.0025 UJ	1.3 J	0.17 J
05	013	30200	30.0	0.216	0.199	0.155	0.0025 U	0.0025 UJ	1.9 J	0.15 J
05	014	29921	7.0	0.446	0.52	0.51	0.0025 U	0.0025 UJ	1.7 J	0.061 J
05	014	29934	17.0	0.212	0.220	0.330	0.0025 U	0.0025 UJ	1.5 J	0.12 J
05	014	29942	27.0	0.173	0.241	0.277	0.0025 U	0.0025 UJ	1.9 J	0.13 J
05	014	29943	30.0	0.195	0.238	0.280	0.0025 U	0.0025 UJ	1.2 J	0.12 J
05	017	30589	1.0	0.59	1.38	1.17	0.0028 U	0.0038 J	4.0 J	0.39 J
05	017	30598	11.0	0.247	0.280	0.221	0.0025 U	0.0025 UJ	1.3 J	0.13 J
05	017	30606	21.0	0.204	0.199	0.140	0.0025 U	0.0025 UJ	1.7 J	0.15 J
05	017	30616	30.0	0.166	0.223	0.179	0.0025 U	0.0025 UJ	1.7 J	0.12 J
05	018	30640	7.0	0.316	0.37	0.35	0.0025 U	0.0025 UJ	2.8 J	0.12 J
05	018	30654	17.0	0.190	0.232	0.174	0.0025 U	0.0025 UJ	1.1 J	0.12 J
05	018	30666	27.0	0.211	0.193	0.203	0.0025 U	0.0025 UJ	1.2 J	0.21 J
05	018	30670	30.0	0.203	0.228	0.213	0.0025 U	0.0025 UJ	1.3 J	0.13 J
05	019	30711	4.0	0.45	0.94	0.83	0.0025 U	0.0025 UJ	2.5 J	0.21 J
05	019	30728	14.0	0.224	0.185	0.261	0.0025 U	0.0025 UJ	1.7 J	0.17 J
05	019	30739	24.0	0.125	0.105	0.133	0.0026 U	0.0026 UJ	1.4 J	0.12 J
05	019	30744	30.0	0.109	0.207	0.160	0.0026 U	0.0026 UJ	3.2 J	0.13 J
05	021	30417	7.0	0.73	0.83	0.79	0.0025 U	0.0025 UJ	3.3 J	0.27 J
05	021	30425	17.0	0.167	0.211	0.173	0.0026 U	0.0026 UJ	2.0 J	0.21 J
05	021	30443	27.0	0.218	0.290	0.227	0.0025 U	0.0025 UJ	5.7	0.20 J
05	021	30447	30.0	0.174	0.273	0.257	0.0026 U	0.0026 UJ	6.2	0.15 J
05	022	30356	4.0	0.74	0.58	0.57	0.0025 U	0.0025 UJ	7.4	0.43 J
05	022	30370	14.0	0.156	0.37	0.36	0.0025 U	0.0025 UJ	2.2 J	0.15 J
05	022	30391	24.0	0.125	0.230	0.188	0.0025 U	0.0025 UJ	1.3 J	0.13 J
05	022	30398	30.0	0.219	0.176	0.173	0.0025 U	0.0025 UJ	2.2 J	0.13 J
05	023	30679	1.0	0.63	0.89	0.81	0.0028 U	0.019 J	5.3 J	0.41 J
05	023	30688	11.0	0.199	0.295	0.213	0.0026 U	0.0026 UJ	1.9 J	0.14 J
05	023	30697	21.0	0.252	0.176	0.264	0.0026 U	0.0026 UJ	0.82 J	0.088 J
05	023	30705	30.0	0.263	0.236	0.231	0.0026 U	0.0026 UJ	1.0 J	0.16 J
05	024	29847	7.0	0.95	0.93	0.84	0.0026 U	0.0026 UJ	4.1 J	0.31 J
05	024	29862	17.0	0.227	0.46	0.333	0.0025 U	0.0025 UJ	1.2 J	0.13 J
05	024	29881	27.0	0.212	0.212	0.190	0.0025 U	0.0025 UJ	2.1 J	0.17 J
05	024	29883	30.0	0.211	0.252	0.212	0.0025 U	0.0025 UJ	1.6 J	0.13 J

Table 2
SU03, SU04 and SU05 Soil Boring Sample Results
Severn Trent Laboratories, Inc.

Analytes:

Th-232 - Thorium-232
U-234 - Uranium-234
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel
Be - Beryllium

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

R - Validation qualifier used to indicate that the result is considered unusable.
U - Validation qualifier used to indicate that the result was qualified as non-detect.
J - Validation qualifier used to indicate that the result is considered an estimate.
UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 1 for boring locations.
NS - Not sampled due to insufficient recovery.
Blank cell indicates analysis was not performed.
Result is above Site cleanup level.

Table 3
100 Building Focused Sampling Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
C12	DL21	12521	1.0	0.66		5.14			
C12	DL21	12544	2.0	0.61		4.28			
C12	DL21	12576	3.0	0.45		10.49			
C12	DL21	12578	4.0	0.17		25.87			
C12	DL21	12579	5.0	0.29		4.69			
C12	DL21	12580	6.0	0.05		3.27			
C12	DL21	12602	7.0	0.50		3.93			
C12	DL21	12603	8.0	0.55		4.55			
C12	DL21	12604	9.0	0.44		7.31 J			
C12	**DL21**	**12600**	**10.0**	**0.54**	**3.15**	**3.18**	**0.0026 U**	**0.0020 J**	**6.7**
D13	DL20	12601	1.0	0.73		4.79			
G16	DL12	12144	1.0	0.86		9.06 J			
G16	DL12	12145	2.0	0.86		28.85			
G16	DL12	12193	3.0	0.65		5.77			
G16	DL12	12211	4.0	0.81		11.73			
G16	DL12	12216	5.0	0.82		9.38			
G16	DL12	12227	6.0	0.64		5.02			
G16	DL12	12247	7.0	0.79		6.88			
G16	DL12	12248	8.0	0.47		4.29			
G16	DL12	12256	9.0	0.39		4.37 J			
G16	**DL12**	**12257**	**10.0**	**0.66**	**2.03**	**1.34**	**0.0025 U**	**0.0025 UJ**	**3.4 J**
G16	DL18	12530	1.0	0.73		4.38			
G16	DL18	12536	2.0	0.81		25.40			
G17	DL17	12525	1.0	0.50		5.48			
G17	DL17	12526	2.0	0.90		16.41			
G17	DL17	12528	3.0	0.52		4.83			
G17	DL17	12582	4.0	0.79		15.34			
G18	DL01	12101	1.0	1.06		5.27			
G18	DL01	12102	2.0	0.78		13.47			
G18	DL01	12103	3.0	0.84		19.20			
G18	DL01	12429	4.0	0.07		34.12			
G18	DL01	12430	5.0	0.74 J		4.46			
G18	DL01	12431	6.0	0.38		3.96			
G18	DL01	12432	7.0	0.05 UJ		8.07			
G18	DL01	12433	8.0	0.54		14.93			
G18	DL01	12434	9.0	0.40 J		7.75			
G18	DL01	12435	10.0	0.44		15.14			
G18	DL01	12443	11.0	0.27		9.82			
G18	DL01	12444	12.0	0.25		3.06			
G18	DL01	12445	13.0	0.26		2.78			
G18	DL01	12446	14.0	0.03		5.51 J			
G18	**DL01**	**12447**	**15.0**	**0.30 J**	**2.05**	**2.20**	**0.0026 U**	**0.00098 J**	**21.8**
G18	DL02	12064	1.0	0.97		6.69 J			
G18	DL02	12065	2.0	1.37		28.12			
G18	DL02	12084	3.0	0.62		4.36			
G18	DL02	12085	4.0	1.03		6.02			
G18	DL02	12086	5.0	0.48		3.61			
G18	DL02	12087	6.0	0.30		3.40			
G18	DL02	12088	7.0	0.35		11.59			
G18	DL02	12092	8.0	0.37		8.12			

Table 3
100 Building Focused Sampling Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
G18	DL02	12097	9.0	0.49		5.20			
G18	DL02	12100	10.0	0.33		3.50			
G18	DL02	12448	11.0	0.20 J		3.17			
G18	DL02	12450	12.0	0.46 J		3.84			
G18	DL02	12451	13.0	0.03 UJ		3.08			
G18	DL02	12452	14.0	0.21		5.45			
G18	**DL02**	**12453**	**15.0**	**0.35 J**	**4.18**	**3.92**	**0.0027 U**	**0.0051 J**	**3.4 J**
H18	DL15	12440	0.0	0.56		4.13			
H18	DL15	12441	1.0	0.72		5.40			
H18	DL15	12442	2.0	0.91 J		10.36			
H18	DL15	12449	3.0	0.65		11.54			
H18	DL15	12454	4.0	0.88		25.28			
H18	DL15	12455	5.0	6.04		107.42			
H18	DL15	12456	6.0	0.81		20.62			
H19	DL09	12132	1.0	1.32		17.84			
H19	DL09	12133	2.0	0.92		22.36			
H19	DL09	12425	3.0	0.98		27.85			
H19	**DL09**	**12422**	**4.0**	2.81 J		221.46	**3.8 J**	**380 U**	**1630**
H19	DL09	12436	5.0	1.11		78.27			
H19	DL09	12437	6.0	1.43 J		36.86	0.507 J	43.195	
H19	DL09	12438	7.0	1.68		6.13			
H19	DL09	12439	8.0	1.01 J		4.72			
I11	DL03	12142	0.0	0.84		4.80			
I11	DL03	12143	1.0	0.85		4.65			
I11	DL03	12166	2.0	0.55		4.63			
I11	DL03	12167	3.0	0.34		3.30			
I11	DL03	12168	4.0	0.42		3.43			
I11	DL03	12169	5.0	0.44		8.55			
I11	DL03	12172	6.0	0.40		6.34			
I11	**DL03**	**12359**	**17.0**	0.34		8.96			**2.3 J**
I11	DL03	12360	18.0	0.21		3.09			
I11	DL03	12361	19.0	0.16		2.43			
I19	DL11	12119	1.0	1.17		23.44			
I19	DL11	12131	2.0	0.70		9.93			
I19	DL11	12426	3.0	0.59		11.54			
I19	DL11	12427	4.0	0.95 J		4.03			
I19	DL11	12428	5.0	0.96		7.16 J			
I19	DL11	12401	6.0	0.58		3.67			
I19	DL11	12403	7.0	0.40		4.00 J			
I19	DL11	12404	8.0	0.05		3.73			
I19	DL11	12405	9.0	0.26		2.60			
I19	DL11	12408	10.0	0.32		3.19			
I19	DL11	12409	11.0	0.29		3.18			
I19	DL11	12411	12.0	0.20		2.43			
I19	DL11	12412	13.0	0.22		3.63			
I19	DL11	12419	14.0	0.40		4.15			
I19	**DL11**	**12420**	**15.0**	**0.43**	**1.15**	**1.07**	**0.0026 U**	**0.00057 J**	**3.6 J**
K14	DL14	12396	1.0	1.03		5.08			
K14	DL14	12397	2.0	0.78		7.46			
K14	DL14	12398	3.0	1.35		12.46			

Table 3
100 Building Focused Sampling Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
K14	DL14	12399	4.0	0.72		4.95			
K14	DL14	12400	5.0	0.59		4.22			
L14	DL05	12352	1.0	0.76		5.52			
L14	DL05	12353	2.0	0.88		4.94			
L14	DL05	12354	3.0	1.76		12.21			
L14	DL05	12372	4.0	1.46		17.22			
L14	DL05	12373	5.0	0.93 J		11.67			
L14	DL05	12374	6.0	0.56		10.16 J			
L14	DL05	12375	7.0	0.41		6.31 J			
L14	DL05	12376	8.0	0.46		3.53 UJ			
L14	DL05	12377	9.0	0.39		3.45 UJ			
L14	DL05	12378	10.0	0.54		6.68 J			
L14	DL05	12379	11.0	0.40		3.37 UJ			
L14	DL05	12380	12.0	0.38		3.86 UJ			
L14	DL05	12381	13.0	0.44		3.89			
L14	DL05	12382	14.0	0.28		3.45			
L14	DL05	12383	15.0	0.28		3.14 UJ			
L14	DL05	12384	16.0	0.32		5.84 J	0.105	0.105	
L14	DL05	12385	17.0	0.32		4.26 J			
L14	DL05	12388	18.0	0.19		3.08 UJ			
L14	DL05	12391	19.0	0.06 UJ		3.66			
L14	**DL05**	**12392**	**20.0**	**0.30 J**	**1.42**	**0.74**	**0.0025 U**	**0.0013 J**	**0.38 J**
L14	DL19	12481	0.0	0.51		3.34			
L14	DL19	12482	1.0	1.13		4.94			
L14	DL19	12484	2.0	1.05		6.59			
L14	DL19	12488	3.0	0.97		10.47			
L14	DL19	12494	4.0	1.47		19.76			
L14	DL19	12546	6.0	1.15		10.14			
L14	DL19	12547	7.0	0.32		3.32			
L14	DL19	12548	8.0	0.36		3.69			
L14	DL19	12549	9.0	0.45		3.82			
L14	DL19	12553	10.0	0.39		4.01 J			
L14	DL19	12554	11.0	0.46		4.62			
L14	DL19	12555	12.0	0.31		2.86			
L14	DL19	12556	13.0	0.29		2.50			
L14	DL19	12557	14.0	0.27		3.15			
L14	DL19	12558	15.0	0.30		3.15			
L14	**DL19**	**12586**	**15.5**	**0.36 J**	**11.6**	**0.91**	**0.0026 U**	**0.0077 J**	**2.5 J**
M14	DL06	11830	1.0	0.74		4.30			
M14	DL06	11831	2.0	0.66		8.42 J			
M14	DL06	11832	3.0	1.00		5.42			
M14	DL06	11843	4.0	0.76		6.38			
M14	DL06	12293	5.0	1		10.26 J			
M14	DL06	12297	6.0	1.47 J		11.61			
M14	DL06	12299	7.0	0.81 J		9.65			
M14	DL06	12300	8.0	0.93		15.07			
M14	DL06	12309	9.0	0.79		4.15			
M14	DL06	12310	10.0	0.93 J		7.30			
M14	DL06	12402	11.0	0.65		5.40			
M14	DL06	12406	12.0	0.71		9.01			

Table 3
100 Building Focused Sampling Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
M14	DL06	12407	13.0	0.62		5.81			
M14	DL06	12410	14.0	0.76		7.23			
M14	DL06	12415	15.0	0.67		8.30			
M14	DL06	12416	16.0	0.57		5.16			
M14	DL06	12417	17.0	0.63		6.13			
N15	DL07	12364	0.0	0.57 J		4.35			
N15	DL07	12365	1.0	0.65		4.26			
N15	DL07	12366	2.0	1.05 J		10.90			
N15	DL07	12367	3.0	0.96		22.00			
N15	DL07	12368	4.0	0.92		10.27 J			
N15	DL07	12369	5.0	0.40		3.14			
N15	DL07	12370	6.0	0.52		6.68			
N15	DL07	12371	7.0	0.65		5.60			
N15	**DL07**	**12386**	**24.0**	1.68		124.79 J			**955 J**
N15	DL07	12387	24.5	1.53		119.27			
N15	DL07	12389	25.0	0.47		9.38	0.095	6.132	
N15	DL07	12390	26.0	0.26		6.85 J			
N15	**DL07**	**12393**	**27.0**	**0.41**	**8.26**	**8.31**	**0.00064 J**	**0.190 J**	**10.0**
N15	DL07	12413	27.5	0.21		5.48			
N15	DL07	12414	28.0	0.29		3.51			
N15	DL07	12418	29.0	0.14		2.52			
N15	**DL07**	**12421**	**30.0**	**0.34 J**	**3.49**	**3.25**	**0.0026 U**	**0.015 J**	**2.1 J**
O15	DL16	12457	1.0	0.90		7.87			
O15	DL16	12458	2.0	0.76		4.19			
O15	DL16	12459	3.0	1.21		7.60			
O15	DL16	12460	4.0	0.79 J		5.44			
O15	DL16	12461	5.0	0.75		8.06 J			
O15	DL16	12462	6.0	0.40 J		4.73 J			
O15	DL16	12463	7.0	0.26		2.72			
O15	DL16	12464	8.0	0.31		3.72			
O15	DL16	12465	9.0	0.40		3.15			
O15	DL16	12466	10.0	0.24		2.53			
O15	DL16	12470	11.0	0.25		3.32			
O15	DL16	12469	12.0	0.12		2.25			
O15	DL16	12476	13.0	0.20 J		2.77			
O18	DL10	12199	0.0	0.64		3.99			
O18	DL10	12200	1.0	0.54		5.41			
O18	DL10	12204	2.0	0.95		17.99			
O18	DL10	12209	3.0	0.94		19.96			
O18	DL10	12210	4.0	0.79		8.02			
O18	DL10	12218	5.0	0.44		3.37			
O18	DL10	12219	6.0	0.62		15.47			
O18	DL10	12231	7.0	0.59		8.31			
O18	DL10	12232	8.0	1.10		13.93			
O18	DL10	12237	9.0	0.69		24.17			
O18	DL10	12238	10.0	0.73		74.78			
O18	DL10	12239	11.0	0.69		81.39			
O18	DL10	12255	12.0	0.57 J		51.24			
O18	DL10	12258	13.0	0.47		37.52			
O18	DL10	12273	14.0	0.30		40.30			

Table 3
100 Building Focused Sampling Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
O18	DL10	12274	15.0	0.40		51.62			
O18	DL10	12285	16.0	0.31		42.36			
O18	DL10	12286	17.0	0.19		36.72			
O18	DL10	12291	18.0	0.20		23.02			
O18	DL10	12292	19.0	0.19 J		11.03			
O18	DL10	12298	20.0	0.20		11.15			
O18	**DL10**	**12313**	**20.5**	**0.50**	**32.7**	**34.4**	**0.0026 U**	**0.0084 J**	**17.3**
O18	DL13	12311	0.0	0.72		12.03			
O18	DL13	12312	1.0	0.94 J		19.60			
O18	DL13	12316	2.0	0.65		7.34			
O18	DL13	12317	3.0	0.76 J		10.91			
O18	DL13	12336	4.0	0.70		4.23			
O18	DL13	12337	5.0	0.76		5.87			
O18	DL13	12342	6.0	0.46		4.31			
O18	DL13	12343	7.0	0.72		4.45			
O18	DL13	12344	8.0	0.38		6.31			
O18	DL13	12345	9.0	0.39		9.66			
O18	DL13	12346	10.0	0.51		11.09			
O18	DL13	12347	11.0	0.71		19.26			
O18	DL13	12348	12.0	0.43		20.72			
O18	DL13	12349	13.0	0.45		21.96			
O18	DL13	12350	14.0	0.24		82.70			
O18	DL13	12351	15.0	0.24		71.52			
O18	DL13	12355	16.0	0.19		13.07			
O18	DL13	12356	17.0	0.29		18.42			
O18	DL13	12357	18.0	0.38		24.56			
O18	DL13	12358	19.0	0.23		7.95			
O18	DL13	12362	20.0	0.20		9.28			
O18	**DL13**	**12363**	**20.5**	**0.23 J**	**24.4**	**24.3**	**0.0026 U**	**0.0039 J**	**4.4**

Table 3
100 Building Focused Sampling Sample Results

Analytes:

Th-232 - Thorium-232
U-234 - Uranium-234
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

U - Validation qualifier used to indicate that the result was qualified as non-detect.
J - Validation qualifier used to indicate that the result is considered an estimate.
UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 3 for boring locations.
DL sample is analyzed on Site for radionuclides (Th-232 and U-238) using the gamma spectroscopy system.
DL sample is analyzed for volatile organic compounds (TCE and PCE) using solid phase microextraction and capillary gas chromatography by Stone Environmental Inc.
SP sample result is bold and indicates that analysis was performed off Site by Severn Trent Laboratories, Inc.
Due to an artifact in the laboratory data reporting program, the on-Site analytical data should be interpreted to two significant figures.
Blank cell indicates analysis was not performed.

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
I11	01	01	20994	15.0	NS		NS			<100	
I11	**01**	**01**	**21018**	**16.0**	**1.60**	**0.166**	**0.185**	**0.0027 U**	**0.0028**	**12.5**	**0.53 UJ**
I11	01	01	21019	19.0	0.29		2.08			<100	
I11	01	01	21020	21.0	NS		NS			<100	
I11	01	01	21021	22.0	0.36		2.11				
I11	01	01	21022	23.0	0.21		0.31			<100	
I11	01	01	21032	25.0	0.35		1.11			<100	
I11	01	01	21033	26.0	0.34		0.73 J				
I11	01	01	21034	27.0	0.22		1.18 J			<100	
I11	01	01	21043	28.0	0.20		1.64				
I11	01	01	21044	29.0	0.20		0.47 J			<100	
I11	**01**	**01**	**21059**	**30.0**	**0.145**	**0.202**	**0.165**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.51 UJ**
I11	01	02	21064	1.0	1.03		0.86 J			<100	
I11	01	02	21067	3.0	0.78		6.27			<100	
I11	01	02	21073	5.0	1.00		2.54			<100	
I11	01	02	21078	6.0	0.43		1.42				
I11	01	02	21079	7.0	0.49		1.83 J			40.5 J	
I11	01	02	21086	9.0	0.54		2.55			<100	
I11	01	02	21087	11.0	0.36 J		1.42			<100	
I11	01	02	21116	13.0	0.37		1.02 J			<100	
I11	01	02	21117	15.0	0.72 J		5.11			<100	
I11	01	02	21118	16.0	0.36 J		2.09				
I11	01	02	21119	17.0	0.36		0.80 J			<100	
I11	01	02	21132	18.0	0.23		0.88				
I11	01	02	21133	19.0	0.31 J		0.85 J			<100	
I11	01	02	21134	20.0	0.15		1.53				
I11	01	02	21135	21.0	0.19 J		1.59			<100	
I11	01	02	21141	22.0	0.25		0.77 J				
I11	01	02	21142	23.0	0.27		0.79			<100	
I11	01	02	21150	25.0	0.17 J		0.93 J			<100	
I11	01	02	21151	26.0	0.27 J		1.29 J				
I11	01	02	21152	27.0	0.26 J		0.89			<100	
I11	01	02	21176	28.0	0.16		1.55				
I11	01	02	21177	29.0	0.28 J		1.02 J			<100	
I11	**01**	**02**	**21178**	**30.0**	**0.267**	**0.224**	**0.235**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.52 U**
I11	01	03	21291	1.0	0.96		3.09 J			<100	
I11	01	03	21292	2.0	0.70		6.08 J				
I11	01	03	21293	3.0	0.51 J		1.03 J			<100	
I11	01	03	21300	5.0	0.95		3.14 J			<100	
I11	01	03	21301	6.0	0.68 J		2.10				
I11	01	03	21302	7.0	0.29		0.55			<100	
I11	01	03	21303	9.0	0.79		1.31 J			<100	
I11	01	03	21309	11.0	0.31 J		3.84			<100	
I11	01	03	21310	12.0	0.29		1.24				
I11	01	03	21311	13.0	0.23		1.66 J			<100	
I11	01	03	21312	15.0	0.40 J		2.55 J			<100	
I11	01	03	21313	16.0	0.31		1.67				
I11	01	03	21314	17.0	0.23		0.51 UJ			<100	
I11	01	03	21315	19.0	0.06 UJ		0.38			<100	
I11	01	03	21316	21.0	0.19		0.54 J			<100	
I11	01	03	21317	22.0	0.30		0.51 J				
I11	01	03	21318	23.0	0.17		0.26			<100	
I11	01	03	21319	25.0	0.26 J		1.14 J			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
I11	01	03	21323	26.0	0.33		2.14				
I11	01	03	21324	27.0	0.27		0.93 J			<100	
I11	01	03	21333	29.0	0.32		0.51			<100	
I11	**01**	**03**	**21338**	**30.0**	**0.168**	**0.193**	**0.209**	**0.0026 U**	**0.0026 U**	**1.1 J**	**0.078 J**
I11	01	04	21345	1.0	1.10 J		3.93			<100	
I11	01	04	21346	2.0	0.74		1.16				
I11	01	04	21347	3.0	0.99		7.08			<100	
I11	01	04	21354	4.0	1.20		2.49				
I11	01	04	21355	5.0	0.94		1.83			<100	
I11	01	04	21364	6.0	0.64		1.75				
I11	01	04	21365	7.0	0.04 UJ		1.35 J			<100	
I11	01	04	21366	9.0	0.62		1.99			<100	
I11	01	04	21367	11.0	0.03 UJ		0.75			<100	
I11	01	04	21369	12.0	0.19		0.94 J				
I11	01	04	21370	13.0	0.34		0.78 J			<100	
I11	01	04	21371	15.0	0.40 J		1.16 J			<100	
I11	01	04	21372	16.0	0.32		1.59				
I11	01	04	21373	17.0	0.29 J		1.15 J			<100	
I11	01	04	21390	19.0	0.21		0.36			<100	
I11	01	04	21393	21.0	0.38		0.84			<100	
I11	01	04	21394	22.0	0.17		0.72 J				
I11	01	04	21395	23.0	0.17		0.77			<100	
I11	01	04	21396	25.0	0.08 UJ		0.62			<100	
I11	01	04	21397	26.0	0.26		1.29				
I11	01	04	21398	27.0	0.27		0.53			<100	
I11	01	04	21422	29.0	0.27 J		0.68 J			<100	
I11	**01**	**04**	**21423**	**30.0**	**0.194**	**0.126**	**0.148**	**0.0026 U**	**0.0026 U**	**1.6 J**	**0.080 J**
I11	01	05	21203	1.0	1.05 J		1.22 J			<100	
I11	01	05	21204	2.0	1.37		3.85				
I11	01	05	21205	3.0	1.15 J		2.35			<100	
I11	01	05	21217	4.0	1.01		2.17				
I11	01	05	21218	5.0	1.08		1.94			<100	
I11	01	05	21227	7.0	0.55 J		1.09 J			<100	
I11	01	05	21228	9.0	0.85		1.94			<100	
I11	01	05	21243	11.0	0.31		1.84			<100	
I11	01	05	21244	12.0	0.49 J		1.06				
I11	01	05	21245	13.0	0.25 J		2.08			<100	
I11	01	05	21246	15.0	0.27		0.68 J			<100	
I11	01	05	21247	16.0	0.27 J		0.64				
I11	01	05	21248	17.0	0.06 UJ		0.53 J			<100	
I11	01	05	21251	19.0	0.03 UJ		0.57			<100	
I11	01	05	21252	21.0	0.19		1.91 J			<100	
I11	01	05	21253	22.0	0.18		1.06 J				
I11	01	05	21254	23.0	0.21		1.06			<100	
I11	01	05	21256	24.0	0.19		0.91 J				
I11	01	05	21257	25.0	0.05		1.26 J			<100	
I11	01	05	21274	27.0	0.30		0.75 J			<100	
I11	01	05	21275	28.0	0.15		0.37 UJ				
I11	01	05	21276	29.0	0.18 J		0.65 J			<100	
I11	**01**	**05**	**21278**	**30.0**	**0.143**	**42.1**	**35.8**	**0.0026 U**	**0.0026 U**	**1.2 J**	**0.51 U**
I11	02	01	20847	7.0	1.39		10.34			<100	
I11	02	01	20848	9.0	NS		NS			<100	
I11	02	01	20849	11.0	NS		NS			41.8 J	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
I11	02	01	20850	13.0	1.01		9.62			44.9 J	
I11	02	01	20859	14.0	0.57		4.77				
I11	02	01	20860	15.0	0.29		2.54			<100	
I11	02	01	20884	16.0	0.20		2.00				
I11	02	01	20885	17.0	0.20		0.74			<100	
I11	02	01	20886	18.0	0.30		1.31				
I11	02	01	20887	19.0	0.06		1.26			<100	
I11	02	01	20888	20.0	0.05		0.92 J				
I11	02	01	20889	21.0	0.25		0.79 J			<100	
I11	02	01	20893	22.0	0.03		2.26 J				
I11	02	01	20894	23.0	0.25		0.43 J			<100	
I11	02	01	20900	24.0	0.05		0.38				
I11	02	01	20901	25.0	0.06		0.58 J			<100	
I11	02	01	20902	26.0	0.29		0.98 J				
I11	02	01	20903	27.0	0.27		2.02			<100	
I11	02	01	20908	28.0	0.18 J		0.99 J				
I11	02	01	20909	29.0	0.20		0.64 J			<100	
I11	**02**	**01**	**20910**	**30.0**	**0.112**	**0.131**	**0.123 J**	**0.0026 U**	**0.0026 U**	**1.9 J**	**0.52 UJ**
I11	02	02	20989	1.0	1.51		2.39			<100	
I11	02	02	20990	2.0	0.64		1.80				
I11	02	02	20991	3.0	0.83		2.06			<100	
I11	02	02	20997	5.0	0.71		2.28 J			<100	
I11	02	02	20998	6.0	0.66		0.93 J				
I11	02	02	20999	7.0	0.73		1.12 J			<100	
I11	02	02	21001	10.0	0.28		0.52 J				
I11	02	02	21002	11.0	0.29		0.55			<100	
I11	02	02	21004	13.0	0.22		0.65			<100	
I11	02	02	21005	14.0	0.38		1.62				
I11	02	02	21006	15.0	0.27		0.25			<100	
I11	02	02	21009	16.0	0.23		1.47				
I11	02	02	21010	17.0	0.21		0.41			<100	
I11	02	02	21012	18.0	0.32		0.97				
I11	02	02	21013	19.0	0.29		0.99 J			<100	
I11	02	02	21016	20.0	0.22		0.87 J				
I11	02	02	21017	21.0	0.30		0.57 J			<100	
I11	02	02	21023	22.0	0.32		0.47 J				
I11	02	02	21024	23.0	0.20		0.51 J			<100	
I11	02	02	21026	24.0	0.27		0.28				
I11	02	02	21027	25.0	0.26		1.08 J			<100	
I11	02	02	21028	26.0	0.20		0.22				
I11	02	02	21029	27.0	0.03		0.59 J			<100	
I11	02	02	21045	28.0	0.24		0.76 J				
I11	02	02	21046	29.0	0.24		0.32 J			<100	
I11	**02**	**02**	**21048**	**30.0**	**0.115**	**0.138**	**0.143**	**0.0026 U**	**0.0026 U**	**1.7 J**	**0.51 U**
I11	02	03	20920	4.0	0.70		1.86 J				
I11	02	03	20921	5.0	0.45		1.47 J			<100	
I11	02	03	20922	7.0	0.52		1.54			<100	
I11	02	03	20927	9.0	0.66		1.55 J			<100	
I11	02	03	20928	11.0	0.26		2.47			<100	
I11	02	03	20935	12.0	0.20		0.35				
I11	02	03	20936	13.0	0.19		1.29			<100	
I11	02	03	20937	14.0	0.40		0.66				
I11	02	03	20938	15.0	0.26		3.13			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
I11	02	03	20939	16.0	0.34		1.85				
I11	02	03	20940	17.0	0.21		0.74 J			<100	
I11	02	03	20945	18.0	0.03		2.43				
I11	02	03	20946	19.0	0.07		2.35 J			<100	
I11	02	03	20947	20.0	0.29		2.16				
I11	02	03	20948	21.0	0.04		1.14			<100	
I11	02	03	20959	22.0	0.16		1.36				
I11	02	03	20960	23.0	0.25		1.39			<100	
I11	02	03	20961	24.0	0.42		1.42 J				
I11	02	03	20962	25.0	0.19		1.38			<100	
I11	02	03	20963	26.0	0.23		0.78				
I11	02	03	20964	27.0	0.26		0.37			<100	
I11	02	03	20971	28.0	0.21		1.07 J				
I11	02	03	20972	29.0	0.29		0.62			<100	
I11	**02**	**03**	**20978**	**30.0**	**0.111**	**0.158**	**0.140**	**0.0026 U**	**0.0026 U**	**1.3 J**	**0.51 U**
I11	02	05	21069	4.0	0.61		1.99				
I11	02	05	21070	5.0	0.30		2.70			<100	
I11	02	05	21071	6.0	0.43		0.55 J				
I11	02	05	21072	7.0	0.76		0.90			<100	
I11	02	05	21074	8.0	0.25		0.70 J				
I11	02	05	21075	9.0	0.42		0.95 J			<100	
I11	02	05	21076	10.0	0.23		0.40				
I11	02	05	21077	11.0	0.29		1.33			<100	
I11	02	05	21084	12.0	0.29		1.26 J				
I11	02	05	21085	13.0	0.32		2.89 J			<100	
I11	02	05	21088	14.0	0.23		0.45 J				
I11	02	05	21089	15.0	0.29 J		0.42 J			<100	
I11	02	05	21090	16.0	0.28 J		0.76 J				
I11	02	05	21091	17.0	0.21 J		1.20			<100	
I11	02	05	21093	18.0	0.22		0.44				
I11	02	05	21092	19.0	0.28 J		0.32			<100	
I11	02	05	21094	20.0	0.48 J		0.56				
I11	02	05	21095	21.0	0.23 J		0.63 J			<100	
I11	02	05	21110	22.0	0.16		0.23				
I11	02	05	21111	23.0	0.21 J		0.51 J			<100	
I11	02	05	21112	24.0	0.31 J		1.23				
I11	02	05	21113	25.0	0.26 J		0.72 J			<100	
I11	02	05	21114	26.0	0.15		0.41				
I11	02	05	21115	27.0	0.18 J		0.81 J			<100	
I11	02	05	21121	28.0	0.20		0.49 J				
I11	02	05	21122	29.0	0.20		1.75			42.5 J	
I11	**02**	**05**	**21123**	**30.0**	**0.163**	**0.140**	**0.108 J**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.52 U**
L14	03	01	21510	5.0	0.98 J		7.28			<100	
L14	03	01	21511	6.0	NS		NS	0.105	1.982		
L14	03	01	21512	7.0	0.40 J		5.19			<100	
L14	03	01	21516	9.0	0.62		6.33 J			<100	
L14	03	01	21519	11.0	0.82		4.57			<100	
L14	03	01	21520	13.0	NS		NS			50.4 J	
L14	03	01	21537	15.0	NS		NS			<100	
L14	03	01	21538	17.0	0.46		9.86			<100	
L14	03	01	21539	19.0	0.06		1.73			<100	
L14	03	01	21547	21.0	0.25		2.30			<100	
L14	03	01	21554	22.0	0.22		1.54				

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
L14	03	01	21555	23.0	0.28		1.35 J			<100	
L14	03	01	21580	25.0	0.25		1.50			<100	
L14	03	01	21581	26.0	0.21		2.19				
L14	03	01	21582	27.0	0.06		0.58 J			<100	
L14	03	01	21598	29.0	0.07		0.45			<100	
L14	**03**	**01**	**21599**	**30.0**	**0.150**	**0.199 J**	**0.199 J**	**0.113**	**0.113**	**1.5 J**	**0.085 J**
L14	03	02	21731	1.0	0.88		3.56			<100	
L14	03	02	21732	3.0	NS		NS			<100	
L14	03	02	21733	5.0	0.96		11.75			<100	
L14	03	02	21734	7.0	0.55		2.16			<100	
L14	03	02	21735	9.0	NS		NS			<100	
L14	03	02	21740	11.0	0.77		1.66			<100	
L14	03	02	21741	13.0	0.67		2.57			<100	
L14	03	02	21746	14.0	0.26		1.39				
L14	03	02	21747	15.0	0.31		1.85			<100	
L14	03	02	21748	16.0	0.35		2.77 J				
L14	03	02	21749	17.0	0.38		1.59			<100	
L14	03	02	21756	18.0	0.33		0.66				
L14	03	02	21757	19.0	0.20		1.35			<100	
L14	03	02	21758	20.0	0.19		1.28				
L14	03	02	21759	21.0	0.06		0.80 J			<100	
L14	03	02	21760	22.0	0.28		1.46 J				
L14	03	02	21761	23.0	0.24		1.06 J			<100	
L14	03	02	21765	25.0	0.40		0.61			<100	
L14	03	02	21766	26.0	0.25		1.00				
L14	03	02	21767	27.0	0.19		0.35			<100	
L14	03	02	21768	28.0	0.26		0.58 J				
L14	03	02	21769	29.0	0.33		0.40			<100	
L14	**03**	**02**	**21770**	**30.0**	**0.146**	**0.152**	**0.134**	**0.0025 U**	**0.0025 U**	**1.3 R**	**0.060 J**
L14	03	03	21618	1.0	0.86		0.92 J			<100	
L14	03	03	21619	2.0	0.79		3.31				
L14	03	03	21620	3.0	1.07		5.83			<100	
L14	03	03	21621	5.0	0.57		1.30 J			<100	
L14	03	03	21637	6.0	0.80		1.76				
L14	03	03	21638	7.0	0.73		2.38			<100	
L14	03	03	21639	8.0	0.28		0.90 J				
L14	03	03	21640	9.0	0.38		3.35 J			<100	
L14	03	03	21641	11.0	0.33		0.90 J			<100	
L14	03	03	21646	13.0	0.11		1.22 J			<100	
L14	03	03	21649	15.0	0.05		0.65 J			<100	
L14	03	03	21650	16.0	0.42		1.44 J				
L14	03	03	21651	17.0	0.27		1.80			<100	
L14	03	03	21654	19.0	0.25		1.82 J			<100	
L14	03	03	21655	21.0	0.39		1.42			<100	
L14	03	03	21656	22.0	0.24		0.58 J				
L14	03	03	21657	23.0	0.30		0.14			<100	
L14	03	03	21664	25.0	0.22		0.43			<100	
L14	03	03	21665	26.0	0.26		1.67 J				
L14	03	03	21666	27.0	0.32		1.18			<100	
L14	03	03	21669	28.0	0.15		0.93 J				
L14	03	03	21670	29.0	0.25		0.74 J			<100	
L14	**03**	**03**	**21673**	**30.0**	**0.187**	**0.127**	**0.140**	**0.0026 U**	**0.0026 U**	**1.1 R**	**0.066 J**
L14	03	04	21773	1.0	0.59		1.47 J			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
L14	03	04	21774	3.0	0.83		14.30			42.2 J	
L14	03	04	21776	5.0	0.68		10.59			<100	
L14	03	04	21784	6.0	0.74		3.61				
L14	03	04	21785	7.0	0.10		0.84			<100	
L14	03	04	21786	8.0	0.56		0.74 J				
L14	03	04	21787	9.0	0.48		0.91 J			<100	
L14	03	04	21788	11.0	0.27		1.32 J			<100	
L14	03	04	21789	13.0	0.34		0.60			<100	
L14	03	04	21790	15.0	0.30		1.41			<100	
L14	03	04	21801	16.0	0.24		1.40 J				
L14	03	04	21802	17.0	0.31		1.25			<100	
L14	03	04	21807	19.0	0.25		0.38 J			<100	
L14	03	04	21810	21.0	0.29		1.29 J			<100	
L14	03	04	21815	22.0	0.20		0.37 J				
L14	03	04	21816	23.0	0.06		0.85 J			<100	
L14	03	04	21827	25.0	0.21		2.19			<100	
L14	03	04	21828	26.0	0.24		0.97 J				
L14	03	04	21829	27.0	0.21		1.48			<100	
L14	03	04	21830	29.0	0.30		0.56 J			<100	
L14	**03**	**04**	**21832**	**30.0**	**0.218**	**0.203**	**0.166**	**0.0025 U**	**0.0025 U**	**1.1 R**	**0.086 J**
L14	03	05	21675	1.0	1.10		2.56 J			<100	
L14	03	05	21676	3.0	1.05		9.31			<100	
L14	03	05	21677	4.0	0.60		3.87				
L14	03	05	21678	5.0	0.70		0.65			<100	
L14	03	05	21683	7.0	0.56		1.71			<100	
L14	03	05	21688	9.0	0.67		4.63			<100	
L14	03	05	21689	10.0	0.75		7.48				
L14	03	05	21690	11.0	1.84		16.91			<100	
L14	03	05	21691	13.0	0.95		16.64			<100	
L14	03	05	21696	15.0	0.78		4.01			<100	
L14	03	05	21698	16.0	NS		NS	0.133	12.370		
L14	03	05	21697	17.0	0.25		2.04			<100	
L14	03	05	21703	18.0	0.21		1.40				
L14	03	05	21704	19.0	0.24		1.47			<100	
L14	03	05	21705	21.0	0.28		3.45			<100	
L14	03	05	21717	22.0	0.19		1.96				
L14	03	05	21718	23.0	0.25		3.36			<100	
L14	03	05	21719	25.0	0.19		1.01			<100	
L14	03	05	21724	26.0	0.21		0.85 J				
L14	03	05	21725	27.0	0.15		0.49 J			<100	
L14	03	05	21726	28.0	0.25		0.53 J				
L14	03	05	21727	29.0	0.25		1.04 J			<100	
L14	**03**	**05**	**21730**	**30.0**	**0.179**	**0.179**	**0.181**	**0.0025 U**	**0.0025 U**	**1.4 R**	**0.055 J**
M14	04	01	21906	5.0	0.97		1.30			<100	
M14	04	01	21907	9.0	NS		NS			<100	
M14	04	01	21908	11.0	0.60		6.94			<100	
M14	04	01	21909	13.0	0.93		14.02			<100	
M14	04	01	21916	15.0	0.87		17.31			<100	
M14	04	01	21924	16.0	0.84		14.05				
M14	04	01	21925	17.0	0.77		5.21 J			<100	
M14	04	01	21928	19.0	0.74		10.13 J			<100	
M14	04	01	21934	21.0	NS		NS			<100	
M14	04	01	21947	22.0	0.97		79.12	0.176	6.364		

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
M14	04	01	21948	23.0	0.28		1.35 J			<100	
M14	04	01	21949	24.0	0.82		40.70				
M14	04	01	21950	25.0	0.21		7.69			<100	
M14	04	01	21959	27.0	0.16		5.74			<100	
M14	04	01	21960	29.0	0.31		1.13 J			<100	
M14	**04**	**01**	**21975**	**30.0**	**0.164**	**1.59**	**0.83**	**0.0026 U**	**0.0026 U**	**1.5 J**	**0.051 J**
M14	04	02	22171	1.0	0.63		1.32 J			<100	
M14	04	02	22172	3.0	0.90		1.92			<100	
M14	04	02	22173	5.0	1.21		13.44			<100	
M14	04	02	22191	7.0	1.00		9.79			<100	
M14	04	02	22200	9.0	0.64		4.32			<100	
M14	04	02	22201	11.0	0.43		2.91 J			45.0 J	
M14	04	02	22204	13.0	0.44		3.94	0.094	1.573	<100	
M14	04	02	22205	15.0	NS		NS			<100	
M14	04	02	22206	17.0	0.30		2.54			<100	
M14	04	02	22207	19.0	0.29		2.16			<100	
M14	04	02	22208	21.0	0.20		3.56	0.097	1.680	<100	
M14	04	02	22209	23.0	0.24		0.90			<100	
M14	04	02	22210	25.0	0.21		0.39 J			<100	
M14	04	02	22211	26.0	0.18		2.07 J				
M14	04	02	22212	27.0	0.16		2.36			<100	
M14	04	02	22214	29.0	0.30		2.08			<100	
M14	**04**	**02**	**22215**	**30.0**	**0.166**	**1.30**	**1.29**	**0.0026 U**	**0.0026 U**	**1.6 J**	**0.10 J**
M14	04	03	21980	1.0	0.69		1.47			<100	
M14	04	03	21981	3.0	0.79		3.43			<100	
M14	04	03	21994	5.0	0.15 UJ		11.32			<100	
M14	04	03	22009	7.0	0.94 J		11.96			<100	
M14	04	03	22010	9.0	0.70		2.99			<100	
M14	04	03	22011	10.0	0.07		0.87 J				
M14	04	03	22012	11.0	0.50 J		0.73 J			<100	
M14	04	03	22017	13.0	0.36		1.10 J			<100	
M14	04	03	22022	15.0	0.35 J		0.75 J			<100	
M14	04	03	22023	17.0	0.30		0.76 J			<100	
M14	04	03	22024	19.0	0.24		0.62 J			<100	
M14	04	03	22025	21.0	0.02 UJ		1.47	0.099	0.099	<100	
M14	04	03	22026	23.0	0.19		1.57 J			<100	
M14	04	03	22037	25.0	0.17 J		1.16			<100	
M14	04	03	22038	26.0	0.20		1.13 J				
M14	04	03	22039	27.0	0.18		1.13			<100	
M14	04	03	22048	29.0	0.31 J		1.03 J			<100	
M14	**04**	**03**	**22057**	**30.0**	**0.136**	**0.325**	**0.298**	**0.0026 U**	**0.0026 U**	**3.6 J**	**0.096 J**
M14	04	04	22064	1.0	0.86		1.45 J			<100	
M14	04	04	22065	3.0	1.13		2.08 J			<100	
M14	04	04	22072	5.0	0.96		4.62			<100	
M14	04	04	22073	7.0	1.22		6.30			<100	
M14	04	04	22074	9.0	0.70		1.38 J			<100	
M14	04	04	22091	11.0	0.03		2.14			<100	
M14	04	04	22096	13.0	0.27		1.87			<100	
M14	04	04	22097	15.0	0.26		0.75 J			<100	
M14	04	04	22098	16.0	0.37		0.74 J				
M14	04	04	22099	17.0	0.07		1.35 J			<100	
M14	04	04	22121	19.0	0.24		0.59			<100	
M14	04	04	22125	21.0	0.30		0.68 J			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
M14	04	04	22123	22.0	0.23		1.06 J				
M14	04	04	22124	23.0	0.06		0.54 J			<100	
M14	04	04	22132	25.0	0.04		0.59 J			<100	
M14	04	04	22133	26.0	0.23		2.10 J				
M14	04	04	22134	27.0	0.22		1.96			<100	
M14	04	04	22135	29.0	0.21		0.53			<100	
M14	**04**	**04**	**22153**	**30.0**	**0.152**	**0.255**	**0.193**	**0.0026 U**	**0.0026 U**	**1.8 J**	**0.094 J**
M14	04	05	22216	1.0	1.13		1.89 J			<100	
M14	04	05	22217	2.0	0.96		4.51				
M14	04	05	22218	3.0	1.10		12.39			40.1 J	
M14	04	05	22219	5.0	1.42		15.75			<100	
M14	04	05	22220	7.0	0.90		6.28			<100	
M14	04	05	22221	9.0	1.28		2.94			<100	
M14	04	05	22226	11.0	0.49		1.49			<100	
M14	04	05	22227	13.0	0.49		2.15			<100	
M14	04	05	22228	15.0	0.40		2.05			<100	
M14	04	05	22231	16.0	0.27		1.97				
M14	04	05	22232	17.0	0.29		3.27			<100	
M14	04	05	22233	18.0	0.03		2.23				
M14	04	05	22234	19.0	0.32		1.95			<100	
M14	04	05	22241	20.0	0.17		0.94				
M14	04	05	22242	21.0	0.07		1.97			<100	
M14	04	05	22250	22.0	0.28		1.14				
M14	04	05	22251	23.0	0.34		0.55 J			<100	
M14	04	05	22252	25.0	0.21		0.61 J			<100	
M14	04	05	22255	26.0	0.29		0.29				
M14	04	05	22256	27.0	0.22		2.94			<100	
M14	04	05	22265	28.0	0.18		1.40				
M14	04	05	22266	29.0	0.17		0.50			<100	
M14	**04**	**05**	**22270**	**30.0**	**0.161**	**0.276**	**0.249**	**0.0025 U**	**0.0025 U**	**1.9 J**	**0.089 J**
M14	04	06	22289	1.0	0.85		0.82			<100	
M14	04	06	22290	2.0	1.35		7.33				
M14	04	06	22291	3.0	0.99		2.47			<100	
M14	04	06	22296	5.0	1.10		15.01			45.1 J	
M14	04	06	22331	7.0	0.78		7.52			<100	
M14	04	06	22332	9.0	0.78		2.00			<100	
M14	04	06	22333	11.0	0.30		1.87			<100	
M14	04	06	22334	13.0	0.30		1.15 J			<100	
M14	04	06	22335	14.0	0.28		1.51				
M14	04	06	22336	15.0	0.21		1.08 J			<100	
M14	04	06	22337	16.0	0.36		0.80 J				
M14	04	06	22338	17.0	0.28		0.81 J			<100	
M14	04	06	22344	19.0	0.24		0.95			<100	
M14	04	06	22356	21.0	0.24		1.16			<100	
M14	04	06	22357	22.0	0.15		0.87 J				
M14	04	06	22358	23.0	0.30		1.48			<100	
M14	04	06	22367	25.0	0.27		1.38			<100	
M14	04	06	22378	26.0	0.32		2.22				
M14	04	06	22379	27.0	0.23		1.07			<100	
M14	04	06	22380	29.0	0.25		3.75			<100	
M14	**04**	**06**	**22394**	**30.0**	**0.114**	**0.98**	**0.98**	**0.0026 U**	**0.0026 U**	**1.4 J**	**0.062 J**
M14	04	07	22548	1.0	0.74		1.54 J			<100	
M14	04	07	22549	2.0	0.69		2.23				

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
M14	04	07	22550	3.0	1.10		3.59 J			<100	
M14	04	07	22557	4.0	0.99		10.84				
M14	04	07	22558	5.0	0.97		13.46			<100	
M14	04	07	22565	7.0	0.73		3.81 J			<100	
M14	04	07	22566	9.0	1.02		5.58	0.097	1.256	<100	
M14	04	07	22571	11.0	0.29		0.66 J			<100	
M14	04	07	22574	13.0	0.06		0.74 J			<100	
M14	04	07	22575	15.0	0.34		1.42 J			<100	
M14	04	07	22576	16.0	0.03		0.78 J				
M14	04	07	22577	17.0	0.29		1.67			<100	
M14	04	07	22582	19.0	0.29		2.49			<100	
M14	04	07	22583	21.0	0.27		0.42			<100	
M14	04	07	22584	22.0	0.23		0.93 J				
M14	04	07	22585	23.0	0.29		0.45			<100	
M14	04	07	22586	25.0	0.30		0.68 J			<100	
M14	04	07	22588	26.0	0.21		1.07 J				
M14	04	07	22589	27.0	0.22		0.81 J			<100	
M14	04	07	22590	28.0	0.22		0.57 J				
M14	04	07	22591	29.0	0.25		0.41			<100	
M14	**04**	**07**	**22592**	**30.0**	**0.121**	**0.070 J**	**0.080 J**	**0.0025 U**	**0.0025 U**	**2.2 J**	**0.11 J**
M14	04	08	22476	1.0	0.87		1.54 J			<100	
M14	04	08	22481	2.0	1.05		1.35				
M14	04	08	22482	3.0	1.25		22.97 J			<100	
M14	04	08	22483	5.0	0.96		1.73 J			<100	
M14	04	08	22491	7.0	0.46		0.69 J			<100	
M14	04	08	22506	9.0	0.45		1.01 J			<100	
M14	04	08	22507	11.0	0.36		1.23 J			<100	
M14	04	08	22509	13.0	0.34		0.94 J			<100	
M14	04	08	22510	15.0	0.24		0.51 UJ			<100	
M14	04	08	22519	17.0	0.25		0.96 J			<100	
M14	04	08	22522	19.0	0.33		1.55 J			<100	
M14	04	08	22523	21.0	0.34		0.92 J			<100	
M14	04	08	22525	22.0	0.18		0.53 J				
M14	04	08	22526	23.0	0.25		0.38 J			<100	
M14	04	08	22527	25.0	0.21		1.12 J			<100	
M14	04	08	22538	26.0	0.26		1.07 J				
M14	04	08	22539	27.0	0.22		1.33 J			<100	
M14	04	08	22542	29.0	0.05		0.51 J			<100	
M14	**04**	**08**	**22545**	**30.0**	**0.173**	**0.188**	**0.121**	**0.0026 U**	**0.0026 U**	**0.84 J**	**0.17 J**
M14	04	09	22417	1.0	0.71		0.65 J			<100	
M14	04	09	22418	3.0	0.90		6.81			<100	
M14	04	09	22422	5.0	0.75		5.01			<100	
M14	04	09	22424	7.0	0.96		2.39			<100	
M14	04	09	22425	9.0	0.64		1.47			40.8 J	
M14	04	09	22426	11.0	0.60		1.45			<100	
M14	04	09	22432	13.0	0.36		1.38 J			<100	
M14	04	09	22433	15.0	0.24		1.15 J			<100	
M14	04	09	22434	16.0	0.05		0.61 J				
M14	04	09	22435	17.0	0.20		0.45			<100	
M14	04	09	22437	19.0	0.29		0.24			<100	
M14	04	09	22438	21.0	0.33		0.53 J			<100	
M14	04	09	22446	22.0	0.32		0.76 J				
M14	04	09	22447	23.0	0.24		0.39			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
M14	04	09	22448	25.0	0.34		1.95			<100	
M14	04	09	22459	26.0	0.22		0.87 J				
M14	04	09	22460	27.0	0.23		0.45 J			<100	
M14	04	09	22464	29.0	0.20		1.27			<100	
M14	**04**	**09**	**22465**	**30.0**	**0.215**	**0.402**	**0.305**	**0.0026 U**	**0.0026 U**	**1.2 J**	**0.12 J**
N15	05	01	22596	1.0	0.06		2.63			<100	
N15	05	01	22597	3.0	0.99		0.95 J			<100	
N15	05	01	22599	5.0	NS		NS			<100	
N15	05	01	22605	25.0	NS		NS			50.2 J	
N15	05	01	22606	27.0	0.29		6.76			<100	
N15	**05**	**01**	**22607**	**28.0**	**0.165**	**2.31**	**2.20**	**0.0026 U**	**0.042**	**2.3 J**	**0.11 J**
N15	**05**	**01**	**22617**	**30.0**	**0.193**	**1.21**	**1.13**	**0.0026 U**	**0.016**	**2.5 J**	**0.11 J**
N15	05	01	22641	32.0	0.25 J		1.61				
N15	05	01	22642	33.0	0.25		0.42			<100	
N15	05	01	22650	35.0	0.37		0.65 J			<100	
N15	05	01	22651	37.0	0.25 J		1.32 J			<100	
N15	05	01	22664	39.0	0.43		0.58			<100	
N15	05	01	22673	41.0	0.28		0.77			<100	
N15	05	01	22688	42.0	0.16		0.77				
N15	05	01	22689	43.0	0.22 J		0.47 J			<100	
N15	05	01	22698	45.0	0.24		1.08			<100	
N15	05	01	22701	46.0	0.20 J		0.87 J				
N15	05	01	22702	47.0	0.30		1.77			<100	
N15	05	01	22705	48.0	0.55		0.51				
N15	05	01	22706	49.0	0.34		1.63			<100	
N15	05	01	22715	50.0	0.35		1.47				
N15	05	01	22716	51.0	0.90		5.59			<100	
N15	05	01	22731	52.0	0.55		1.53				
N15	05	01	22732	53.0	0.90		5.07	0.103	0.103	<100	
N15	05	01	22733	54.0	0.73		5.13				
N15	05	01	22734	55.0	0.56		10.18			<100	
N15	05	01	22735	56.0	0.58		4.70				
N15	05	01	22736	57.0	0.39		3.15			<100	
N15	05	01	22737	58.0	0.46		3.70				
N15	05	01	22738	59.0	0.26		1.53			<100	
N15	05	01	22757	60.0	0.35		2.63				
N15	05	01	22758	61.0	0.34		3.88			<100	
N15	05	01	22765	62.0	0.35		1.82				
N15	05	01	22766	63.0	0.38		1.25			<100	
N15	**05**	**01**	**22800**	**64.0**	**0.109**	**0.344**	**0.386**	**0.0026 U**	**0.0026 U**	**0.50 J**	**0.52 U**
N15	05	02	22633	1.0	0.68 J		2.18			<100	
N15	05	02	22634	3.0	1.20		9.42			<100	
N15	05	02	22808	4.0	1.26		9.07				
N15	05	02	22809	5.0	1.23		1.24 J			<100	
N15	05	02	22810	7.0	0.36		0.50			<100	
N15	05	02	22816	9.0	1.01		0.98 J			<100	
N15	05	02	22819	11.0	0.35		0.69			<100	
N15	05	02	22824	13.0	0.48		1.21			<100	
N15	05	02	22826	15.0	0.72		0.92 J			<100	
N15	05	02	22827	16.0	0.45		1.99				
N15	05	02	22828	17.0	0.24		1.20			<100	
N15	05	02	22830	19.0	0.31		0.27			<100	
N15	05	02	22839	21.0	0.32		1.11 J			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
N15	05	02	22842	22.0	0.18		0.96 J				
N15	05	02	22843	23.0	0.25		1.70			<100	
N15	05	02	22848	25.0	0.46		1.34			<100	
N15	05	02	22849	26.0	0.34		1.16 J				
N15	05	02	22850	27.0	0.24		0.82 J			<100	
N15	05	02	22859	29.0	0.31		0.41			<100	
N15	**05**	**02**	**22862**	**30.0**	**0.115**	**0.150**	**0.108**	**0.0026 U**	**0.0026 U**	**1.4 J**	**0.063 J**
N15	05	03	22922	1.0	NS		NS			<100	
N15	05	03	22923	2.0	1.24		1.73 J				
N15	05	03	22924	3.0	1.01		6.44			<100	
N15	05	03	22929	4.0	0.97		6.62				
N15	05	03	22930	5.0	1.51		4.52 J			<100	
N15	05	03	22931	6.0	0.55		1.35				
N15	05	03	22932	7.0	0.66		0.84 J			<100	
N15	05	03	22935	9.0	0.96		1.65 J			<100	
N15	05	03	22940	11.0	0.34		1.07			<100	
N15	05	03	22945	12.0	0.37		0.53 J				
N15	05	03	22946	13.0	0.46		1.72 J			<100	
N15	05	03	22961	15.0	0.27		1.09 J			<100	
N15	05	03	22963	16.0	0.25		1.34				
N15	05	03	22964	17.0	0.26		1.08 J			<100	
N15	05	03	22965	19.0	0.27		0.89 J			<100	
N15	05	03	22966	20.0	0.18		1.01				
N15	05	03	22967	21.0	0.23		1.63			<100	
N15	05	03	22972	23.0	0.22		0.44			<100	
N15	05	03	22981	25.0	0.21		1.13 J			<100	
N15	05	03	22982	26.0	0.17		0.62 J				
N15	05	03	22983	27.0	0.26		1.14 J			<100	
N15	05	03	22984	29.0	0.21		0.86 J			<100	
N15	**05**	**03**	**22989**	**30.0**	**0.129**	**0.246**	**0.255**	**0.0026 U**	**0.00094 J**	**2.0 J**	**0.17 J**
N15	05	04	23150	1.0	0.52		2.14			<100	
N15	05	04	23151	3.0	1.26		7.63			56.6 J	
N15	05	04	23152	4.0	1.03		7.47				
N15	05	04	23153	5.0	1.15		2.67			<100	
N15	05	04	23154	7.0	0.49		1.09 J			<100	
N15	05	04	23155	9.0	0.66		1.18 J			<100	
N15	05	04	23156	10.0	0.42		1.10 J				
N15	05	04	23157	11.0	0.40		0.87 J			<100	
N15	05	04	23163	13.0	0.21		0.60 J			<100	
N15	05	04	23176	15.0	0.28		2.99 J			<100	
N15	05	04	23177	16.0	0.30		1.07				
N15	05	04	23178	17.0	0.25		1.74			<100	
N15	05	04	23186	19.0	0.28		2.00 J			<100	
N15	05	04	23187	20.0	0.22		1.18				
N15	05	04	23188	21.0	0.28		0.73 J			<100	
N15	05	04	23205	23.0	0.26		1.54 J			<100	
N15	05	04	23206	25.0	0.42		1.99			<100	
N15	05	04	23213	26.0	0.34		1.01 J				
N15	05	04	23214	27.0	0.23		1.14			<100	
N15	05	04	23228	29.0	0.28		1.22			<100	
N15	**05**	**04**	**23233**	**30.0**	**0.171**	**0.250**	**0.244**	**0.0026 U**	**0.018 J**	**1.4 J**	**0.51 U**
N15	05	05	23000	1.0	0.75		0.76			<100	
N15	05	05	23001	3.0	0.96		1.18			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
N15	05	05	23013	4.0	0.93		1.44 J				
N15	05	05	23014	5.0	1.37		1.87			<100	
N15	05	05	23021	7.0	0.52		0.66			<100	
N15	05	05	23023	8.0	0.42		1.29				
N15	05	05	23024	9.0	0.47		1.99 J			<100	
N15	05	05	23025	11.0	0.33		1.91 J			<100	
N15	05	05	23026	13.0	0.27		1.08 J			<100	
N15	05	05	23038	15.0	0.36		0.57 UJ			<100	
N15	05	05	23039	16.0	0.20		0.82 J				
N15	05	05	23040	17.0	0.22 J		1.08 J			<100	
N15	05	05	23043	19.0	0.17		0.75 J			<100	
N15	05	05	23044	21.0	0.33		2.42 J			<100	
N15	05	05	23045	22.0	0.32		0.96 J				
N15	05	05	23046	23.0	0.26		1.72 J			<100	
N15	05	05	23057	25.0	0.33		0.86			<100	
N15	05	05	23058	26.0	0.25		2.44 J				
N15	05	05	23059	27.0	0.03		0.83			<100	
N15	05	05	23072	29.0	0.25		1.25 J			<100	
N15	**05**	**05**	**23079**	**30.0**	**0.168**	**0.227**	**0.210**	**0.0025 U**	**0.0063 J**	**1.4 J**	**0.20 J**
A19	12	01	18224	4.0	1.22		8.79				
A19	12	01	18230	5.0	0.57		3.73			<100	
A19	12	01	18231	6.0	0.54		2.76				
A19	12	01	18232	7.0	0.53		1.23 J			<100	
A19	12	01	18233	8.0	0.08		1.30				
A19	**12**	**01**	**18234**	**9.0**	0.30		2.52 J			**2.0 J**	
A19	12	01	18244	10.0	0.48		2.65 J				
A19	12	01	18245	11.0	0.32 J		2.19			<100	
A19	12	01	18246	12.0	0.39		2.66				
A19	12	01	18247	13.0	0.43		0.85 J			<100	
A19	12	01	18248	14.0	0.36		0.50				
A19	12	01	18249	15.0	0.08		1.32 J			<100	
A19	12	01	18250	16.0	0.32		1.03 J				
A19	12	01	18251	17.0	0.22		0.51 J			<100	
A19	12	01	18267	18.0	0.22		0.35				
A19	12	01	18268	19.0	0.33		0.96			<100	
A19	12	01	18269	20.0	0.16 J		0.77 J				
A19	12	01	18270	21.0	0.22		0.97 J			<100	
A19	12	01	18271	22.0	0.29		0.45 J				
A19	12	01	18272	23.0	0.27		0.30 J			<100	
A19	12	01	18273	24.0	0.24		0.37 J				
A19	12	01	18274	25.0	0.31		0.46			<100	
A19	12	01	18275	26.0	0.19		0.64 J				
A19	12	01	18276	27.0	0.22		1.05			<100	
A19	12	01	18282	28.0	0.33		0.55 J				
A19	12	01	18283	29.0	0.36		2.00			<100	
A19	**12**	**01**	**18284**	**30.0**	**0.141**	**0.156**	**0.164**	**0.0026 U**	**0.0026 U**	**4.2 U**	**0.25 J**
A19	12	03	18403	1.0	0.95		7.58			133	
A19	12	03	18404	2.0	0.99		6.69				
A19	12	03	18405	3.0	0.59		6.25			<100	
A19	12	03	18406	4.0	0.59		4.38				
A19	12	03	18407	5.0	0.56		1.51 J			<100	
A19	12	03	18408	6.0	0.33		0.54 J				
A19	12	03	18409	7.0	0.54		1.38 J			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
A19	12	03	18416	8.0	0.52		2.89				
A19	12	03	18417	9.0	0.72		1.46 J			<100	
A19	12	03	18418	10.0	0.38		1.53				
A19	12	03	18419	11.0	0.38		0.45			<100	
A19	12	03	18420	12.0	0.51		1.62				
A19	12	03	18421	13.0	0.35		0.46			<100	
A19	12	03	18431	14.0	0.46		0.66				
A19	12	03	18432	15.0	0.25		0.53 J			<100	
A19	12	03	18433	16.0	0.28		0.46 J				
A19	12	03	18434	17.0	0.25		0.33			<100	
A19	12	03	18439	18.0	0.36		1.92				
A19	**12**	**03**	**18440**	**19.0**	0.25		1.48			**4.1 U**	
A19	12	03	18441	20.0	0.27		0.33				
A19	12	03	18442	21.0	0.25		1.64			<100	
A19	12	03	18446	22.0	0.19		0.76 J				
A19	12	03	18447	23.0	0.58		2.70 J			<100	
A19	12	03	18456	24.0	0.18		0.50 J				
A19	12	03	18457	25.0	0.20		0.29			<100	
A19	12	03	18458	26.0	0.32		0.97 J				
A19	12	03	18459	27.0	0.22		1.41			<100	
A19	12	03	18462	28.0	0.19		0.23				
A19	12	03	18463	29.0	0.19		1.62			<100	
A19	**12**	**03**	**18464**	**30.0**	**0.137**	**0.154**	**0.122 J**	**0.0026 U**	**0.0026 U**	**2.0 J**	**0.52 U**
A19	12	04	18480	1.0	0.55		3.26			<100	
A19	12	04	18483	3.0	0.65		1.15			<100	
A19	12	04	18494	4.0	0.30		0.92				
A19	12	04	18495	5.0	0.66		0.73			<100	
A19	12	04	18496	6.0	1.05		1.69 J				
A19	12	04	18497	7.0	0.61		2.16			<100	
A19	12	04	18498	8.0	0.42		1.99				
A19	12	04	18499	9.0	0.36		0.87 J			<100	
A19	12	04	18500	10.0	0.36		0.62				
A19	12	04	18501	11.0	0.38		0.26			<100	
A19	12	04	18504	12.0	0.29		0.90 J				
A19	12	04	18505	13.0	0.54		1.80			<100	
A19	12	04	18506	14.0	0.37		0.92 J				
A19	12	04	18507	15.0	0.42		0.64 J			<100	
A19	12	04	18508	16.0	0.27		1.01 J				
A19	12	04	18509	17.0	0.32		1.09 J			<100	
A19	12	04	18511	18.0	0.23		1.18				
A19	12	04	18512	19.0	0.17		0.40 J			<100	
A19	12	04	18513	20.0	0.25		1.76 J				
A19	12	04	18514	21.0	0.22		0.93			<100	
A19	12	04	18515	22.0	0.17		0.85				
A19	12	04	18516	23.0	0.21		2.74			<100	
A19	12	04	18519	24.0	0.17		0.56 J				
A19	12	04	18520	25.0	0.22		0.73 J			<100	
A19	12	04	18521	26.0	0.25		1.26 J				
A19	12	04	18522	27.0	0.30		1.40			<100	
A19	12	04	18523	28.0	0.06		0.70 J				
A19	12	04	18524	29.0	0.24		1.01			<100	
A19	**12**	**04**	**18525**	**30.0**	**0.207**	**0.144**	**0.122 J**	**0.0026 U**	**0.0026 U**	**2.2 J**	**0.51 U**
A19	12	05	18301	1.0	1.21		6.76			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
A19	12	05	18315	2.0	0.88		5.25				
A19	12	05	18316	3.0	0.86		4.35			44.2 J	
A19	12	05	18317	4.0	0.77		6.10				
A19	12	05	18318	5.0	0.61		1.95			<100	
A19	12	05	18319	6.0	0.44		1.71 J				
A19	12	05	18320	7.0	0.38		1.20 J			<100	
A19	12	05	18339	8.0	0.98		2.09				
A19	12	05	18340	9.0	0.51		1.00 J			<100	
A19	12	05	18341	10.0	0.90		2.41 J				
A19	12	05	18342	11.0	0.55		1.02 J			<100	
A19	12	05	18343	12.0	0.33		1.11 J				
A19	12	05	18344	13.0	0.25		1.07 J			<100	
A19	12	05	18354	14.0	0.43		1.45 J				
A19	12	05	18355	15.0	0.42		0.66			<100	
A19	12	05	18352	16.0	0.38		0.48 J				
A19	12	05	18353	17.0	0.43		1.76 J			<100	
A19	12	05	18356	18.0	0.40		0.41				
A19	12	05	18357	19.0	0.37		0.86 J			<100	
A19	12	05	18364	20.0	0.38		0.44				
A19	12	05	18365	21.0	0.49		2.09			<100 UJ	
A19	12	05	18372	22.0	0.16		0.69 J				
A19	12	05	18373	23.0	0.24		0.30			<100 UJ	
A19	12	05	18374	24.0	0.20		0.67				
A19	12	05	18375	25.0	0.43		0.24			<100 UJ	
A19	12	05	18378	26.0	0.23		0.68 J				
A19	12	05	18379	27.0	0.24		0.70 J			<100	
A19	12	05	18380	28.0	0.29		1.36				
A19	12	05	18381	29.0	0.24		1.30 J			<100	
A19	**12**	**05**	**18382**	**30.0**	**0.136**	**0.218**	**0.213**	**0.0026 U**	**0.0026 U**	**4.1 U**	**0.52 U**
Z68	13	01	18540	4.0	0.71		3.96				
Z68	13	01	18541	5.0	0.49		1.89			<100	
Z68	13	01	18542	6.0	0.44		0.94 J				
Z68	13	01	18543	7.0	0.81		0.67			<100	
Z68	13	01	18547	8.0	0.91		1.77 J				
Z68	13	01	18548	9.0	0.69		1.12 J			<100	
Z68	13	01	18553	10.0	0.31		1.14 J				
Z68	13	01	18554	11.0	0.36		0.64 J			<100	
Z68	13	01	18559	12.0	0.28		0.61				
Z68	13	01	18560	13.0	0.34		1.38			<100	
Z68	13	01	18573	14.0	0.24		0.71 J				
Z68	13	01	18574	15.0	0.35		1.58			<100	
Z68	13	01	18578	16.0	0.32		0.35 J				
Z68	13	01	18579	17.0	0.04		0.54 J			<100	
Z68	13	01	18588	18.0	0.19		0.48 J				
Z68	13	01	18589	19.0	0.29		1.53 J			<100	
Z68	13	01	18590	20.0	0.22		0.69 J				
Z68	13	01	18591	21.0	0.26		0.34			<100	
Z68	13	01	18606	22.0	0.21		0.90 J				
Z68	13	01	18607	23.0	0.23		1.17 J			<100	
Z68	13	01	18608	24.0	0.31		0.37				
Z68	13	01	18609	25.0	0.28		0.75			<100	
Z68	13	01	18610	26.0	0.06		0.50 J				
Z68	13	01	18611	27.0	0.18		0.90 J			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
Z68	13	01	18612	28.0	0.29		1.16				
Z68	13	01	18613	29.0	0.31		0.62			<100	
Z68	**13**	**01**	**18614**	**30.0**	**0.108**	**0.189**	**0.159**	**0.0026 U**	**0.0026 U**	**2.7 J**	**0.52 U**
Z68	13	04	18701	1.0	0.72		3.93 J			<100	
Z68	13	04	18702	2.0	0.60		1.27 UJ				
Z68	13	04	18703	3.0	0.76		12.00			41.9 J	
Z68	13	04	18704	4.0	0.74		1.68 J				
Z68	13	04	18705	5.0	0.48		1.22 J			<100	
Z68	13	04	18706	7.0	0.74		0.75			<100	
Z68	13	04	18707	8.0	0.59		3.14 J				
Z68	13	04	18708	9.0	0.48		0.62 J			<100	
Z68	13	04	18709	10.0	0.48		0.69 UJ				
Z68	13	04	18710	11.0	0.28		0.26 UJ			<100	
Z68	13	04	18711	12.0	0.37		0.53 UJ				
Z68	13	04	18712	13.0	0.38		0.62 J			<100	
Z68	13	04	18716	14.0	0.25		1.04 J				
Z68	**13**	**04**	**18717**	**15.0**	0.21		1.44 J			**4 U**	
Z68	13	04	18718	17.0	0.28		0.56 J			<100	
Z68	13	04	18719	18.0	0.34		0.51 UJ				
Z68	13	04	18720	19.0	0.17		1.03 J			<100	
Z68	13	04	18721	20.0	0.15		0.53 J				
Z68	13	04	18722	21.0	0.29		1.53			<100	
Z68	13	04	18728	22.0	0.18		1.02 J				
Z68	13	04	18729	23.0	0.22		0.65 J			<100	
Z68	13	04	18730	24.0	0.20		1.31 J				
Z68	13	04	18731	25.0	0.03		0.83 J			<100	
Z68	13	04	18732	26.0	0.18		0.55 J				
Z68	13	04	18743	28.0	0.18		0.45 UJ				
Z68	13	04	18744	29.0	0.25		0.52			<100	
Z68	**13**	**04**	**18745**	**30.0**	**0.142**	**0.198**	**0.164**	**0.0026 U**	**0.0026 U**	**3.4 J**	**0.51 U**
Z68	13	05	18619	1.0	0.11		4.42			<100	
Z68	13	05	18620	2.0	0.75		14.24 J				
Z68	13	05	18621	3.0	0.62		6.59 J			<100	
Z68	13	05	18622	4.0	0.68		2.06				
Z68	13	05	18623	5.0	0.78		1.95 J			<100	
Z68	13	05	18624	6.0	0.51		1.06 J				
Z68	13	05	18625	7.0	0.67		1.68 J			<100	
Z68	13	05	18633	8.0	1.19		1.04 J				
Z68	13	05	18634	9.0	0.51		1.88 J			<100	
Z68	13	05	18635	10.0	0.63		1.72 J				
Z68	13	05	18636	11.0	0.31		0.49			<100	
Z68	13	05	18637	12.0	0.42		1.65 J				
Z68	13	05	18638	13.0	0.26		1.08 J			<100	
Z68	13	05	18651	14.0	0.38		0.81 J				
Z68	13	05	18652	15.0	0.26		0.56			<100	
Z68	13	05	18663	16.0	0.30		0.28 UJ				
Z68	13	05	18664	17.0	0.33		1.77 J			<100	
Z68	13	05	18671	19.0	0.05		0.97 J			<100	
Z68	13	05	18682	20.0	0.37		1.44				
Z68	13	05	18683	21.0	0.28		1.49 J			<100	
Z68	13	05	18686	22.0	0.21		1.03				
Z68	13	05	18687	23.0	0.29		1.29 J			<100	
Z68	13	05	18688	25.0	0.22		0.51			<100	

Table 4
LPH Soil Boring Sample Results

Subcell	LPH	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
Z68	13	05	18689	26.0	0.17		1.13 J				
Z68	13	05	18690	27.0	0.34		1.52 J			<100	
Z68	13	05	18696	28.0	0.23		1.37 J				
Z68	13	05	18697	29.0	0.06		1.21 J			<100	
Z68	**13**	**05**	**18698**	**30.0**	**0.195**	**0.539**	**0.577**	**0.0026 U**	**0.0026 U**	**4.1 U**	**0.51 U**

Table 4
LPH Soil Boring Sample Results

Analytes:

Th-232 - Thorium-232
U-234 - Uranium-234
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel
Be - Beryllium

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

R - Validation qualifier used to indicate that the result is considered unusable.
U - Validation qualifier used to indicate that the result was qualified as non-detect.
J - Validation qualifier used to indicate that the result is considered an estimate.
UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 4 for boring locations.
DL sample is analyzed on Site for radionuclides (Th-232 and U-238) using the gamma spectroscopy system.
DL sample is analyzed on Site for Ni using x-ray fluorescence spectroscopy by Stone Environmental Inc. Ni result that is between the detection limit of 40 mg/kg and the reporting limit of 100 mg/kg is estimated. Ni result that is less than the detection limit of 40 mg/kg is reported as less than the reporting limit (<100 mg/kg).
DL sample is analyzed for volatile organic compounds (TCE and PCE) using solid phase microextraction and capillary gas chromatography by Stone Environmental Inc.
SP sample result is bold and indicates that analysis was performed off Site by Severn Trent Laboratories, Inc.
NS - Not sampled due to insufficient recovery.
Due to an artifact in the laboratory data reporting program, the on-Site analytical data should be interpreted to two significant figures.
Blank cell indicates analysis was not performed.
Result is above Site cleanup level.

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	C17	DL01	25425	3.0	1.15		12.50			154	
XX	C17	DL01	25426	4.0	0.64		4.14 J				
XX	C17	DL01	25427	5.0	0.50		1.46 J			<100	
XX	C17	DL01	25432	7.0	0.39		0.80 J			<100	
XX	C17	DL01	25436	8.0	0.73		2.21				
XX	C17	DL01	25437	9.0	0.12		1.31 J			<100	
XX	C17	DL01	25442	11.0	0.33		0.61 UJ			<100	
XX	C17	DL01	25443	13.0	0.31		1.44			<100	
XX	C17	DL01	25447	14.0	0.27		0.87 J				
XX	C17	DL01	25448	15.0	0.20		1.69			<100	
XX	C17	DL01	25449	17.0	0.28		1.65 J			<100	
XX	C17	DL01	25460	18.0	0.16		1.65				
XX	C17	DL01	25461	19.0	0.39		2.10 J			<100	
XX	C17	DL01	25462	21.0	0.22		0.43 J			<100	
XX	C17	DL01	25463	23.0	0.20		0.97 J			<100	
XX	C17	DL01	25464	24.0	0.34		0.66 J				
XX	C17	DL01	25465	25.0	0.32		0.28 UJ			<100	
XX	C17	DL01	25474	27.0	0.07		1.06 J			<100	
XX	C17	DL01	25475	28.0	0.19		0.79				
XX	C17	DL01	25476	29.0	0.17		0.94 J			<100	
XX	C17	DL01	25477	30.0	0.33		2.13 J				
XX	C17	DL01	25478	31.0	0.06		0.31			<100	
XX	C17	DL01	25479	32.0	0.07		0.51				
XX	C17	DL01	25480	33.0	0.30		0.28 UJ			<100	
XX	C17	DL01	25489	34.0	0.31		1.01 J				
XX	C17	DL01	25490	35.0	0.29		1.84 J			<100	
XX	C17	DL01	25501	37.0	0.26 J		0.57			<100	
XX	C17	DL01	25502	38.0	0.23		0.70 J				
XX	C17	DL01	25503	39.0	0.30		0.34			<100	
XX	C17	DL01	25504	40.0	0.31 J		1.96 J				
XX	C17	DL01	25505	41.0	0.45 J		0.83			<100	
XX	C17	DL01	25508	43.0	0.72		0.95 J			<100	
XX	C17	DL01	25532	44.0	0.26 J		0.32				
XX	C17	DL01	25533	45.0	0.29		5.49			<100	
XX	C17	DL01	25534	47.0	0.43		4.40			<100	
XX	C17	DL01	25535	48.0	0.34 J		7.54				
XX	C17	DL01	25536	49.0	1.08		13.28			<100	
XX	C17	DL01	25540	50.0	1.36		8.25				
XX	C17	DL01	25541	51.0	0.63		3.20 J			<100	
XX	C17	DL01	25542	53.0	0.71		1.08 J			<100	
XX	C17	DL01	25551	54.0	0.39 J		0.81 J				
XX	C17	DL01	25552	55.0	0.48		1.73			<100	
XX	C17	DL01	25557	56.0	0.41		0.81 J				
XX	C17	DL01	25558	57.0	0.37		1.29 J			<100	
XX	C17	DL01	25563	58.0	0.53 J		2.14				
XX	C17	DL01	25564	59.0	0.06		1.63			<100	
XX	C17	DL01	25565	60.0	0.41 J		1.35 J				
XX	C17	DL01	25566	61.0	0.31		1.76			<100	
XX	C17	DL01	25567	62.0	0.41		1.63				
XX	C17	DL01	25568	63.0	0.48		3.48			<100	
XX	**C17**	**DL01**	**25573**	**64.0**	**0.290**	**1.06**	**0.87**	**0.0026 U**	**0.0026 U**	**0.49 J**	**0.11 J**
XX	**C18**	**DL01**	**25098**	**1.0**	NS		NS			**127**	
XX	C18	DL01	25099	2.0	1.33		25.07				
XX	C18	DL01	25100	3.0	0.71		16.11			65.8 J	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	C18	DL01	25109	5.0	0.64 J		7.83			84.5 J	
XX	C18	DL01	25116	6.0	0.95 J		7.30				
XX	C18	DL01	25117	7.0	1.35 J		2.55			<100	
XX	C18	DL01	25118	8.0	0.10		3.58				
XX	C18	DL01	25119	9.0	0.27 J		0.67 J			<100	
XX	C18	DL01	25120	11.0	0.29 J		2.78			<100	
XX	C18	DL01	25123	12.0	0.25		2.24				
XX	C18	DL01	25124	13.0	0.31 J		0.95 J			<100	
XX	C18	DL01	25125	15.0	0.33 J		1.87			<100	
XX	C18	DL01	25126	16.0	0.32		1.33				
XX	C18	DL01	25127	17.0	0.30		1.23			<100	
XX	C18	DL01	25135	18.0	0.23 J		1.22 J				
XX	C18	DL01	25136	19.0	0.31 J		0.72 J			<100	
XX	C18	DL01	25137	21.0	0.32 J		0.73 J			<100	
XX	C18	DL01	25138	22.0	0.19 J		0.69 J				
XX	C18	DL01	25139	23.0	0.05		0.94 J			<100	
XX	C18	DL01	25141	25.0	0.04		0.56 J			<100	
XX	C18	DL01	25142	26.0	0.16 J		0.62				
XX	C18	DL01	25143	27.0	0.07 UJ		1.85			<100	
XX	C18	DL01	25144	28.0	0.03		0.87				
XX	C18	DL01	25145	29.0	0.31 J		1.48			<100	
XX	C18	DL01	25146	31.0	0.20 J		0.50			<100	
XX	C18	DL01	25147	32.0	0.24		0.69 J				
XX	C18	DL01	25148	33.0	0.23 J		0.91 J			<100	
XX	C18	DL01	25149	35.0	0.26 J		0.66 J			<100	
XX	C18	DL01	25150	36.0	0.04 UJ		1.51				
XX	C18	DL01	25151	37.0	0.25 J		1.03 J			<100	
XX	C18	DL01	25152	39.0	0.24		1.37			<100	
XX	C18	DL01	25159	41.0	0.46		1.03 J			<100	
XX	C18	DL01	25162	42.0	0.23		2.71				
XX	C18	DL01	25163	43.0	0.48		0.85 J			<100	
XX	C18	DL01	25168	45.0	0.43		10.35 J			96.3 J	
XX	C18	DL01	25173	46.0	0.37		6.94 J				
XX	C18	DL01	25174	47.0	1.40		30.94 J			103	
XX	C18	DL01	25180	48.0	1.12		19.30				
XX	C18	DL01	25181	49.0	1.33		17.13 J			<100	
XX	C18	DL01	25182	50.0	1.20		7.23 J				
XX	C18	DL01	25183	51.0	1.04		3.89 J			<100	
XX	C18	DL01	25190	52.0	0.53		0.81 UJ				
XX	C18	DL01	25191	53.0	0.68		5.17 J			<100	
XX	C18	DL01	25192	54.0	0.91		5.20				
XX	C18	DL01	25193	55.0	0.67		7.35 J			<100	
XX	C18	DL01	25200	56.0	0.34		2.28 J				
XX	C18	DL01	25201	57.0	0.38		2.29 J			<100	
XX	C18	DL01	25204	58.0	0.49		4.80 J				
XX	C18	DL01	25205	59.0	0.67		12.18 J			<100	
XX	C18	DL01	25210	61.0	0.22		1.55			<100	
XX	C18	DL01	25213	62.0	0.31		2.33				
XX	C18	DL01	25214	63.0	0.57		3.02 J			76.2 J	
XX	**C18**	**DL01**	**25217**	**64.0**	**0.281**	**1.34**	**1.33**	**0.013**	**0.0026 U**	**61.9 J**	**0.041 J**
XX	C18	DL02	25258	3.0	1.18		10.18			97.9 J	
XX	C18	DL02	25263	4.0	0.92		10.06 J				
XX	C18	DL02	25264	5.0	0.35		2.29			<100	
XX	C18	DL02	25265	7.0	0.82		0.87 J			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	C18	DL02	25266	8.0	0.67		2.72				
XX	C18	DL02	25267	9.0	0.69 J		0.93			<100	
XX	C18	DL02	25268	11.0	0.20		1.36			<100	
XX	C18	DL02	25277	12.0	0.34		1.94				
XX	C18	DL02	25278	13.0	0.09 UJ		1.72 J			<100	
XX	C18	DL02	25283	14.0	0.45		1.03 J				
XX	C18	DL02	25284	15.0	0.31 J		0.49			<100	
XX	C18	DL02	25285	17.0	0.26		0.51 UJ			<100	
XX	C18	DL02	25286	18.0	0.22		0.66 J				
XX	C18	DL02	25287	19.0	0.21 J		0.73 J			<100	
XX	C18	DL02	25288	21.0	0.29		0.92 J			<100	
XX	C18	DL02	25289	22.0	0.21		0.76 J				
XX	C18	DL02	25290	23.0	0.27 J		1.34 J			<100	
XX	C18	DL02	25294	25.0	0.36 J		0.95 J			<100	
XX	C18	DL02	25295	27.0	0.19		0.50 UJ			<100	
XX	C18	DL02	25296	28.0	0.19		0.82 J				
XX	C18	DL02	25297	29.0	0.19 J		1.54			<100	
XX	C18	DL02	25300	31.0	0.22 J		0.43			<100	
XX	C18	DL02	25305	32.0	0.02		0.39 UJ				
XX	C18	DL02	25306	33.0	0.20 J		0.72 J			<100	
XX	C18	DL02	25310	34.0	0.46		0.63				
XX	C18	DL02	25311	35.0	0.40 J		0.63			<100	
XX	C18	DL02	25312	37.0	0.18		0.83 J			<100	
XX	C18	DL02	25315	38.0	0.23		0.89 J				
XX	C18	DL02	25316	39.0	0.20		1.16 J			<100	
XX	C18	DL02	25319	40.0	0.42		1.76 J				
XX	C18	DL02	25320	41.0	0.38 J		1.26 J			<100	
XX	C18	DL02	25329	42.0	0.07 UJ		0.54				
XX	C18	DL02	25330	43.0	0.50		0.72 J			<100	
XX	C18	DL02	25331	44.0	0.29		2.41				
XX	C18	DL02	25332	45.0	0.48 J		15.64			47.4 J	
XX	C18	DL02	25333	47.0	1.20		15.78 J			<100	
XX	C18	DL02	25334	48.0	0.98		10.48 J				
XX	C18	DL02	25335	49.0	1.55 J		22.47			77.5 J	
XX	C18	DL02	25340	50.0	1.68		18.04				
XX	C18	DL02	25341	51.0	1.18 J		7.97			<100	
XX	C18	DL02	25353	52.0	0.88		5.74				
XX	C18	DL02	25354	53.0	0.51 J		1.89			<100	
XX	C18	DL02	25363	54.0	0.54		2.00				
XX	C18	DL02	25364	55.0	0.75 J		3.38			<100	
XX	C18	DL02	25365	56.0	0.58		3.57 J				
XX	C18	DL02	25366	57.0	0.42		2.29			<100	
XX	C18	DL02	25371	58.0	0.07		1.33 J				
XX	C18	DL02	25372	59.0	0.32		1.66			<100	
XX	C18	DL02	25393	60.0	0.57		2.49				
XX	C18	DL02	25394	61.0	0.87 J		6.39			<100	
XX	C18	DL02	25395	62.0	0.49		2.78 J				
XX	C18	DL02	25396	63.0	0.35		2.00			<100	
XX	**C18**	**DL02**	**25405**	**64.0**	**0.204**	**0.86**	**0.89**	**0.00058 J**	**0.0025 U**	**0.29 J**	**0.067 J**
XX	D16	DL01	25854	3.0	1.01		6.77			<100	
XX	D16	DL01	25855	4.0	0.18		4.44				
XX	D16	DL01	25856	5.0	0.71		2.95			<100	
XX	D16	DL01	25857	6.0	0.66		3.16				
XX	D16	DL01	25858	7.0	0.97		0.98 J			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	D16	DL01	25861	8.0	0.72		1.67 J				
XX	D16	DL01	25862	9.0	0.52		1.31 J			<100	
XX	D16	DL01	25871	11.0	0.07		0.29			<100	
XX	D16	DL01	25872	13.0	0.41		1.64 J			<100	
XX	D16	DL01	25877	14.0	0.23		0.35				
XX	D16	DL01	25878	15.0	0.32		0.94 J			<100	
XX	D16	DL01	25879	17.0	0.27		0.35			<100	
XX	D16	DL01	25884	18.0	0.15		2.11				
XX	D16	DL01	25885	19.0	0.26		1.75 J			<100	
XX	D16	DL01	25913	20.0	0.39		0.79				
XX	D16	DL01	25914	21.0	0.21		0.94			<100	
XX	D16	DL01	25915	23.0	0.21		0.62 J			<100	
XX	D16	DL01	25916	24.0	0.33		1.65 J				
XX	D16	DL01	25917	25.0	0.29		0.46			<100	
XX	D16	DL01	25918	26.0	0.38		1.17				
XX	D16	DL01	25919	27.0	0.39		0.61 J			<100	
XX	D16	DL01	25924	28.0	0.30		1.83				
XX	D16	DL01	25925	29.0	0.26		1.10 J			<100	
XX	D16	DL01	25933	31.0	0.07		1.42			<100	
XX	D16	DL01	25934	32.0	0.02		0.99				
XX	D16	DL01	25935	33.0	0.34		0.46 J			<100	
XX	D16	DL01	25944	34.0	0.15		1.08				
XX	D16	DL01	25945	35.0	0.31		2.30			<100	
XX	D16	DL01	25946	36.0	0.02		1.12 J				
XX	D16	DL01	25947	37.0	0.34		1.96			<100	
XX	D16	DL01	25952	38.0	0.29		1.13 J				
XX	D16	DL01	25953	39.0	0.24		1.08			<100	
XX	D16	DL01	25957	40.0	0.22		2.30				
XX	D16	DL01	25958	41.0	0.22		0.36			<100	
XX	D16	DL01	25960	42.0	0.27		1.36				
XX	D16	DL01	25961	43.0	0.26		1.13 J			<100	
XX	D16	DL01	25967	44.0	0.38		0.41				
XX	D16	DL01	25968	45.0	0.28		5.96			<100	
XX	D16	DL01	25975	47.0	0.31		4.30			<100	
XX	D16	DL01	25978	48.0	1.13		14.43				
XX	D16	DL01	25979	49.0	1.27		10.81			<100	
XX	D16	DL01	25984	50.0	1.44		15.78				
XX	D16	DL01	25985	51.0	0.77		2.24			<100	
XX	D16	DL01	26005	52.0	0.62		3.25 J				
XX	D16	DL01	26006	53.0	0.48		0.85 J			<100	
XX	D16	DL01	26007	54.0	0.53		2.98 J				
XX	D16	DL01	26008	55.0	0.73 J		4.38 J			<100	
XX	D16	DL01	26021	56.0	0.46		1.99 J				
XX	D16	DL01	26022	57.0	0.45		0.76 J			<100	
XX	D16	DL01	26023	58.0	0.08 UJ		1.23 J				
XX	D16	DL01	26024	59.0	0.49		1.07 J			<100	
XX	D16	DL01	26043	60.0	0.40		0.82 J				
XX	D16	DL01	26044	61.0	0.29		0.57 J			<100	
XX	D16	DL01	26055	62.0	0.36		0.77 J				
XX	D16	DL01	26056	63.0	0.38		0.74 J			<100	
XX	**D16**	**DL01**	**26059**	**64.0**	**0.203**	**0.316**	**0.440**	**0.0042**	**0.0026 UJ**	**1.1 J**	**0.23 J**
XX	D17	DL01	24739	3.0	1.10		11.47			<100	
XX	D17	DL01	24741	4.0	0.30		1.71				
XX	D17	DL01	24742	5.0	0.94		4.75 J			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	D17	DL01	24743	7.0	0.41		0.54 UJ			<100	
XX	D17	DL01	24744	8.0	0.57		2.26				
XX	D17	DL01	24745	9.0	0.46		0.70			<100	
XX	D17	DL01	24746	10.0	0.12		1.73 J				
XX	D17	DL01	24747	11.0	0.25		0.62 J			<100	
XX	D17	DL01	24748	12.0	0.31		2.61 J				
XX	D17	DL01	24749	13.0	0.47 J		1.54 J			<100	
XX	D17	DL01	24752	14.0	0.08		3.00				
XX	D17	DL01	24753	15.0	0.28		2.49			<100	
XX	D17	DL01	24754	17.0	0.19		4.72 J			<100	
XX	D17	DL01	24755	18.0	0.28		1.63				
XX	D17	DL01	24756	19.0	0.20 J		3.21			<100	
XX	D17	DL01	24757	20.0	0.24		2.09 J				
XX	D17	DL01	24758	21.0	NS		NS			<100	
XX	D17	DL01	24759	22.0	0.20		0.41				
XX	D17	DL01	24760	23.0	0.23 J		0.43			<100	
XX	D17	DL01	24761	25.0	0.26 J		0.49 J			<100	
XX	D17	DL01	24767	27.0	0.27		1.15 J			<100	
XX	D17	DL01	24768	28.0	0.18 J		0.65				
XX	D17	DL01	24769	29.0	0.22		1.04 J			<100	
XX	D17	DL01	24778	30.0	0.18		0.62 J				
XX	D17	DL01	24779	31.0	NS		NS			<100	
XX	D17	DL01	24780	32.0	0.36		0.51 J				
XX	D17	DL01	24781	33.0	0.36		1.32			<100	
XX	D17	DL01	24792	34.0	0.36 J		0.93 J				
XX	D17	DL01	24793	35.0	0.58		3.55			<100	
XX	D17	DL01	24794	36.0	0.26		2.52 UJ				
XX	D17	DL01	24795	37.0	0.34		4.89 J			<100	
XX	D17	DL01	24800	38.0	0.18 J		2.77				
XX	D17	DL01	24801	39.0	0.33		5.03			<100	
XX	D17	DL01	24802	40.0	0.35		3.52 J				
XX	D17	DL01	24805	41.0	0.36		2.86 J			<100	
XX	D17	DL01	24806	42.0	0.52		5.02 J				
XX	D17	DL01	24811	43.0	0.31 J		2.17			<100	
XX	D17	DL01	24814	44.0	0.59		2.91 J				
XX	D17	DL01	24815	45.0	0.31 J		3.22			47.7 J	
XX	D17	DL01	24821	46.0	0.72		53.55				
XX	D17	DL01	24822	47.0	0.45		6.85 J			42.7 J	
XX	D17	DL01	24823	48.0	0.54 J		16.56				
XX	D17	DL01	24824	49.0	1.30		17.79			49.3 J	
XX	D17	DL01	24826	50.0	1.29		14.43				
XX	D17	DL01	24829	51.0	1.16		9.35			<100	
XX	D17	DL01	24830	52.0	0.75		6.35				
XX	D17	DL01	24831	53.0	0.70 J		2.82			<100	
XX	D17	DL01	24833	54.0	0.63		0.87				
XX	D17	DL01	24834	55.0	0.45		0.73 J			<100	
XX	D17	DL01	24835	56.0	0.49 J		1.69				
XX	D17	DL01	24836	57.0	0.43		0.82			<100	
XX	D17	DL01	24837	58.0	0.65		3.67				
XX	D17	DL01	24838	59.0	0.27 J		0.47 J			<100	
XX	D17	DL01	24854	60.0	0.52		3.38				
XX	D17	DL01	24852	61.0	0.54		3.44			<100	
XX	D17	DL01	24853	62.0	0.58		2.60				
XX	D17	DL01	24855	63.0	0.19 J		1.52			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	**D17**	**DL01**	**24884**	**64.0**	**0.272**	**0.84**	**0.77**	**0.0026 U**	**0.0026 U**	**0.44 J**	**0.047 J**
XX	D18	DL01	23836	2.0	1.55		23.06				
XX	D18	DL01	23837	3.0	0.93		12.70			165	
XX	D18	DL01	23851	5.0	0.46		2.65 J			<100	
XX	D18	DL01	23852	7.0	0.34		0.41			<100	
XX	D18	DL01	23864	8.0	0.51		2.17				
XX	D18	DL01	23865	9.0	0.51		1.65			<100	
XX	D18	DL01	23866	11.0	0.07		0.97 J			<100	
XX	D18	DL01	23873	12.0	0.29		0.45				
XX	D18	DL01	23874	13.0	0.27		1.29 J			<100	
XX	D18	DL01	23883	15.0	0.29		0.66 J			<100	
XX	D18	DL01	23884	17.0	0.05		4.24			<100	
XX	D18	DL01	23890	18.0	0.27		6.45				
XX	D18	DL01	23889	19.0	0.05		12.04			<100	
XX	D18	DL01	23899	21.0	0.25		6.95			<100	
XX	D18	DL01	23909	22.0	0.24		5.60				
XX	D18	DL01	23910	23.0	0.26		4.94			<100	
XX	D18	DL01	23911	25.0	0.34		4.98			<100	
XX	D18	DL01	23918	27.0	0.29		3.35			<100	
XX	D18	DL01	23919	28.0	0.26		2.48				
XX	D18	DL01	23920	29.0	0.35		0.44 UJ			<100	
XX	D18	DL01	23925	31.0	0.27		1.45			<100	
XX	D18	DL01	23926	32.0	0.27		1.17 J				
XX	D18	DL01	23927	33.0	0.19		1.56 J			<100	
XX	D18	DL01	23941	35.0	0.73		1.55 J			<100	
XX	D18	DL01	23942	37.0	0.28		2.75 J			<100	
XX	D18	DL01	23947	38.0	0.26		3.27 J				
XX	D18	DL01	23948	39.0	0.29		2.85			<100	
XX	D18	DL01	23964	41.0	0.23		0.55 J			<100	
XX	D18	DL01	23965	42.0	0.41		0.72				
XX	D18	DL01	23966	43.0	0.06		1.59 J			<100	
XX	D18	DL01	23979	45.0	0.31		17.91			113	
XX	D18	DL01	23989	47.0	0.35		39.74 J			178	
XX	D18	DL01	23990	48.0	0.40		11.76				
XX	D18	DL01	23991	49.0	1.00		12.43			82.5 J	
XX	D18	DL01	23995	50.0	1.68		24.84 J				
XX	D18	DL01	23996	51.0	1.10		10.33			<100	
XX	D18	DL01	24007	52.0	1.42		7.51				
XX	D18	DL01	24008	53.0	0.54		2.21 J			<100	
XX	D18	DL01	24009	55.0	0.44		2.17			<100	
XX	D18	DL01	24015	57.0	0.38		0.97			<100	
XX	D18	DL01	24018	58.0	0.37		3.56 J				
XX	D18	DL01	24019	59.0	0.40		2.09			<100	
XX	D18	DL01	24030	61.0	0.31		3.86 J			<100	
XX	D18	DL01	24033	62.0	0.43		1.48				
XX	D18	DL01	24034	63.0	0.45		2.64			<100	
XX	**D18**	**DL01**	**24049**	**64.0**	**0.442**	**0.99**	**1.04**	**0.0026 U**	**0.0026 U**	**0.33 J**	**0.51 U**
XX	D18	DL02	23664	1.0	1.31 J		13.98			168	
XX	D18	DL02	23665	2.0	0.75 J		6.54				
XX	D18	DL02	23666	3.0	0.52 J		5.73			64.1 J	
XX	D18	DL02	23667	5.0	0.63		3.87			<100	
XX	D18	DL02	23668	6.0	0.70 J		2.27				
XX	D18	DL02	23669	7.0	0.33 J		0.66			<100	
XX	D18	DL02	23670	9.0	0.29 J		1.87			41.1 J	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	D18	DL02	23671	11.0	0.60		1.22			<100	
XX	D18	DL02	23672	13.0	0.46 J		5.12			46.7 J	
XX	D18	DL02	23676	15.0	0.38 J		5.70			<100	
XX	D18	DL02	23677	16.0	0.28		5.23				
XX	D18	DL02	23678	17.0	0.06 UJ		3.06			<100	
XX	D18	DL02	23690	19.0	0.20 J		3.63			<100	
XX	D18	DL02	23691	20.0	0.21 J		1.91				
XX	D18	DL02	23692	21.0	0.17 J		2.48			<100	
XX	D18	DL02	23693	22.0	0.23		2.18				
XX	D18	DL02	23694	23.0	0.16 J		4.96			<100	
XX	D18	DL02	23695	25.0	0.25		7.10			<100	
XX	D18	DL02	23696	26.0	0.34 J		7.35				
XX	D18	DL02	23697	27.0	0.40		9.73			<100	
XX	D18	DL02	23700	29.0	0.26 J		0.52			<100	
XX	D18	DL02	23701	31.0	0.21 J		2.80			43.7 J	
XX	D18	DL02	23710	33.0	0.35		7.32 J			<100	
XX	D18	DL02	23723	35.0	0.30		8.15 J			<100	
XX	D18	DL02	23724	36.0	0.28		5.06				
XX	D18	DL02	23725	37.0	0.16		1.86 J			<100	
XX	D18	DL02	23742	39.0	0.24		6.15 J			<100	
XX	D18	DL02	23745	41.0	0.29		1.94 J			<100	
XX	D18	DL02	23746	42.0	0.20		1.85 J				
XX	D18	DL02	23747	43.0	0.39		2.03 J			<100	
XX	D18	DL02	23766	45.0	0.25		21.32 J			226	
XX	D18	DL02	23767	46.0	0.31		29.81 J				
XX	D18	DL02	23768	47.0	0.99		75.37			<100	
XX	D18	DL02	23779	48.0	1.00		17.40 J				
XX	D18	DL02	23780	49.0	1.50		23.32 J			145	
XX	D18	DL02	23786	50.0	0.68		4.44 J				
XX	D18	DL02	23787	51.0	1.05		22.39			<100	
XX	D18	DL02	23788	52.0	0.95		5.89 J				
XX	D18	DL02	23789	53.0	0.40		1.18 J			<100	
XX	D18	DL02	23795	54.0	0.50		1.56				
XX	D18	DL02	23796	55.0	0.63		2.90			<100	
XX	D18	DL02	23807	56.0	0.54		3.54 J				
XX	D18	DL02	23808	57.0	0.41		1.96 J			<100	
XX	D18	DL02	23815	58.0	0.29		2.16				
XX	D18	DL02	23816	59.0	0.28		0.75 J			<100	
XX	D18	DL02	23818	60.0	0.26		1.32				
XX	D18	DL02	23819	61.0	0.52		1.18 J			<100	
XX	D18	DL02	23823	62.0	0.39		1.28				
XX	D18	DL02	23824	63.0	0.50		2.18			<100	
XX	**D18**	**DL02**	**23825**	**64.0**	**0.223**	**0.361**	**0.428**	**0.0026 U**	**0.0026 U**	**0.31 J**	**0.041 J**
XX	D18	DL03	24914	1.0	1.15		14.97			81.7 J	
XX	D18	DL03	24915	3.0	0.80		8.85			72.4 J	
XX	D18	DL03	24916	5.0	0.89 J		7.08			47.0 J	
XX	D18	DL03	24923	7.0	0.81		15.03			81.7 J	
XX	D18	DL03	24926	9.0	0.29		1.63			<100	
XX	D18	DL03	24927	11.0	0.28		2.39 J			<100	
XX	D18	DL03	24930	12.0	0.34		4.34				
XX	D18	DL03	24931	13.0	0.37		2.34 J			<100	
XX	D18	DL03	24936	15.0	0.30		2.95			<100	
XX	D18	DL03	24937	16.0	0.47		3.35 J				
XX	D18	DL03	24938	17.0	0.24		0.61			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	D18	DL03	24945	19.0	0.19		1.46			<100	
XX	D18	DL03	24946	21.0	0.28		3.65 J			<100	
XX	D18	DL03	24947	22.0	0.37		1.10 J				
XX	D18	DL03	24948	23.0	0.27		2.10			<100	
XX	D18	DL03	24951	25.0	0.20		4.79			<100	
XX	D18	DL03	24952	26.0	0.30		6.48 J				
XX	D18	DL03	24953	27.0	0.26		6.45			<100	
XX	D18	DL03	24956	29.0	0.23		0.80 J			<100	
XX	D18	DL03	24959	31.0	0.24		0.88 J			<100	
XX	D18	DL03	24961	32.0	0.25		2.04				
XX	D18	DL03	24962	33.0	0.19		1.08 J			<100	
XX	D18	DL03	24965	35.0	0.27		0.56 J			<100	
XX	D18	DL03	24966	36.0	0.31		1.26 J				
XX	D18	DL03	24967	37.0	0.24		1.17 J			<100	
XX	D18	DL03	24974	39.0	0.04		2.62 J			<100	
XX	D18	DL03	24975	41.0	0.11		1.21 J			<100	
XX	D18	DL03	24976	42.0	0.32		0.69 J				
XX	D18	DL03	24977	43.0	0.51		2.79 J			<100	
XX	D18	DL03	24988	44.0	0.38		22.46				
XX	D18	DL03	24989	45.0	0.29		19.58			163	
XX	D18	DL03	24990	47.0	0.98		66.77 J			199	
XX	D18	DL03	24996	48.0	1.44		25.92 J				
XX	D18	DL03	24997	49.0	1.27		25.99			63.5 J	
XX	D18	DL03	25001	50.0	1.20		12.90				
XX	D18	DL03	25002	51.0	1.13		2.81			<100	
XX	D18	DL03	25003	52.0	0.77		4.05				
XX	D18	DL03	25004	53.0	0.28		1.65			<100	
XX	D18	DL03	25007	54.0	0.62		4.63				
XX	D18	DL03	25008	55.0	0.50		2.98			<100	
XX	D18	DL03	25013	56.0	0.59		5.88				
XX	D18	DL03	25014	57.0	0.64		1.90 J			<100	
XX	D18	DL03	25042	58.0	0.68		1.57				
XX	D18	DL03	25043	59.0	0.37 J		44.79			<100	
XX	D18	DL03	25044	60.0	0.35		22.63				
XX	D18	DL03	25045	61.0	0.24		14.62			<100	
XX	D18	DL03	25052	62.0	0.49		13.02				
XX	D18	DL03	25053	63.0	0.45 J		9.29			<100	
XX	**D18**	**DL03**	**25061**	**64.0**	**0.390**	**2.52**	**2.48**	**0.0026 U**	**0.0026 U**	**0.48 J**	**0.092 J**
XX	E17	DL01	24518	3.0	1.05 J		12.09 J			46.5 J	
XX	E17	DL01	24519	5.0	0.66 J		10.63 J			75.1 J	
XX	E17	DL01	24520	7.0	0.66		6.18 J			42.1 J	
XX	E17	DL01	24521	9.0	0.21 J		2.41 J			42.1 J	
XX	E17	DL01	24522	11.0	0.24 J		1.68 J			<100	
XX	E17	DL01	24523	13.0	0.26		1.77 J			<100	
XX	E17	DL01	24524	15.0	0.30		3.73			<100	
XX	E17	DL01	24525	17.0	0.31		2.85 J			<100	
XX	E17	DL01	24526	18.0	0.08 UJ		2.61 J				
XX	E17	DL01	24527	19.0	0.22		2.88			<100	
XX	E17	DL01	24528	21.0	0.23		2.62			<100	
XX	E17	DL01	24536	22.0	0.26		2.38 J				
XX	E17	DL01	24537	23.0	0.17		4.73			<100	
XX	E17	DL01	24542	25.0	0.30		4.79			<100	
XX	E17	DL01	24543	27.0	0.22		6.44			<100	
XX	E17	DL01	24559	28.0	0.26		5.36 J				

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	E17	DL01	24560	29.0	0.22		6.71			<100	
XX	E17	DL01	24585	31.0	0.28		3.61			<100	
XX	E17	DL01	24586	32.0	0.05		0.87 J				
XX	E17	DL01	24587	33.0	0.29		1.49 J			<100	
XX	E17	DL01	24588	35.0	0.35		0.45			<100	
XX	E17	DL01	24598	37.0	0.27		1.92 J			<100	
XX	E17	DL01	24599	38.0	0.27		0.70 J				
XX	E17	DL01	24600	39.0	0.26		1.84 J			<100	
XX	E17	DL01	24601	40.0	0.34		2.29				
XX	E17	DL01	24606	41.0	NS		NS			<100	
XX	E17	DL01	24607	42.0	0.27		2.01				
XX	E17	DL01	24612	43.0	0.13		2.98 J			<100	
XX	E17	DL01	24613	44.0	0.24		3.98				
XX	E17	DL01	24626	45.0	0.35		11.71			<100	
XX	E17	DL01	24634	46.0	0.24		10.70				
XX	E17	DL01	24635	47.0	1.25		20.11			84.0 J	
XX	E17	DL01	24644	48.0	0.45		8.65				
XX	E17	DL01	24645	49.0	0.95		13.03 J			70.5 J	
XX	E17	DL01	24653	50.0	1.07		15.34				
XX	E17	DL01	24654	51.0	1.21		12.97			<100	
XX	E17	DL01	24657	52.0	1.08		10.17 J				
XX	E17	DL01	24658	53.0	1.23		6.82 J			<100	
XX	E17	DL01	24659	54.0	0.53		3.41				
XX	E17	DL01	24660	55.0	0.42		3.11 J			<100	
XX	E17	DL01	24661	57.0	0.54		1.49			<100	
XX	E17	DL01	24674	58.0	0.40		3.20 J				
XX	E17	DL01	24675	59.0	0.51		3.88			<100	
XX	E17	DL01	24690	60.0	0.37		5.65 J				
XX	E17	DL01	24699	61.0	0.31		2.14			<100	
XX	E17	DL01	24700	62.0	0.39		0.93 J				
XX	E17	DL01	24701	63.0	0.36		2.84 J			<100	
XX	**E17**	**DL01**	**24717**	**64.0**	**0.143**	**0.470**	**0.395**	**0.0026 U**	**0.0026 R**	**0.21 J**	**0.52 U**
XX	E17	DL02	25015	3.0	0.86		1.21			<100	
XX	E17	DL02	25016	4.0	0.70		4.82 J				
XX	E17	DL02	25017	5.0	0.47		2.52			<100	
XX	E17	DL02	25022	6.0	0.10		2.07				
XX	E17	DL02	25023	7.0	0.73		0.96			<100	
XX	E17	DL02	25024	8.0	0.36		0.69				
XX	E17	DL02	25025	9.0	0.54		1.08 J			<100	
XX	E17	DL02	25026	10.0	0.21		1.14				
XX	E17	DL02	25027	11.0	0.35		2.77			<100	
XX	E17	DL02	25036	12.0	0.09		2.57				
XX	E17	DL02	25037	13.0	0.05		1.14 J			<100	
XX	E17	DL02	25038	14.0	0.32		0.83				
XX	E17	DL02	25039	15.0	0.42 J		1.55			<100	
XX	E17	DL02	25040	16.0	0.39		0.82 J				
XX	E17	DL02	25041	17.0	0.03		1.46 J			<100	
XX	E17	DL02	25046	18.0	0.26 J		1.28				
XX	E17	DL02	25047	19.0	0.07		1.08 J			<100	
XX	E17	DL02	25048	20.0	0.32		0.85 J				
XX	E17	DL02	25049	21.0	0.29 J		1.61			<100	
XX	E17	DL02	25050	22.0	0.23		1.46 J				
XX	E17	DL02	25051	23.0	0.18 J		0.82 J			<100	
XX	E17	DL02	25060	25.0	0.32		0.74 J			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	E17	DL02	25062	26.0	0.40		1.93 J				
XX	E17	DL02	25063	27.0	0.30		2.15			<100	
XX	E17	DL02	25064	28.0	0.31		2.09				
XX	E17	DL02	25065	29.0	0.32 J		1.86 J			<100	
XX	E17	DL02	25066	30.0	0.25		1.62				
XX	E17	DL02	25067	31.0	0.05 UJ		1.28 J			<100	
XX	E17	DL02	25068	32.0	0.22		0.95 J				
XX	E17	DL02	25069	33.0	0.27		1.76			<100	
XX	E17	DL02	25070	34.0	0.22 J		0.99 J				
XX	E17	DL02	25071	35.0	0.54		2.55			<100	
XX	E17	DL02	25072	36.0	0.25		0.52				
XX	E17	DL02	25073	37.0	0.04 UJ		0.94 J			<100	
XX	E17	DL02	25074	38.0	0.42		1.56				
XX	E17	DL02	25075	39.0	0.21		1.97			<100	
XX	E17	DL02	25076	40.0	0.42 J		0.60				
XX	E17	DL02	25077	41.0	0.44		2.07			<100	
XX	E17	DL02	25078	42.0	0.30		2.09				
XX	E17	DL02	25079	43.0	0.24 J		1.74 J			<100	
XX	E17	DL02	25080	44.0	0.38		6.36				
XX	E17	DL02	25081	45.0	0.45		2.36			<100	
XX	E17	DL02	25082	46.0	0.50 J		9.87				
XX	E17	DL02	25083	47.0	0.34 J		3.57			<100	
XX	E17	DL02	25084	48.0	0.65		6.99				
XX	E17	DL02	25085	49.0	1.11 J		12.02			50.4 J	
XX	E17	DL02	25086	50.0	1.19 J		11.80				
XX	E17	DL02	25087	51.0	0.96		7.45			<100	
XX	E17	DL02	25092	52.0	1.23		4.38				
XX	E17	DL02	25093	53.0	0.79 J		3.49			<100	
XX	E17	DL02	25103	54.0	0.47		3.42				
XX	E17	DL02	25104	55.0	0.37 J		1.86			<100	
XX	E17	DL02	25105	56.0	0.42 J		1.62				
XX	E17	DL02	25106	57.0	0.39 J		1.33			<100	
XX	E17	DL02	25121	58.0	0.36 J		2.76				
XX	E17	DL02	25122	59.0	0.55		3.17 J			<100	
XX	E17	DL02	25131	60.0	0.28		2.07				
XX	E17	DL02	25132	61.0	0.57 J		3.55			<100	
XX	E17	DL02	25133	62.0	0.34 J		3.47				
XX	E17	DL02	25134	63.0	0.31		1.07			<100	
XX	**E17**	**DL02**	**25140**	**64.0**	**0.230**	**0.79**	**0.69**	**0.0026 U**	**0.0026 U**	**0.34 J**	**0.52 U**
XX	E18	DL02	24101	3.0	0.87		13.26			98.7 J	
XX	E18	DL02	24102	5.0	0.34		18.89			206	
XX	E18	DL02	24103	7.0	0.35		4.51			84.5 J	
XX	E18	DL02	24104	8.0	0.37 J		7.16				
XX	E18	DL02	24105	9.0	0.41		4.95			<100	
XX	E18	DL02	24106	11.0	0.03		2.21			<100	
XX	E18	DL02	24113	12.0	0.36		5.36				
XX	E18	DL02	24114	13.0	0.19		5.37			<100	
XX	E18	DL02	24121	15.0	0.30 J		2.78			<100	
XX	E18	DL02	24122	17.0	0.36		1.71			<100	
XX	E18	DL02	24123	18.0	0.31 J		2.39				
XX	E18	DL02	24124	19.0	0.34		5.32			<100	
XX	E18	DL02	24125	21.0	0.27 J		3.99			<100	
XX	E18	DL02	24126	22.0	0.25		4.85				
XX	E18	DL02	24127	23.0	0.05		5.45			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	E18	DL02	24128	25.0	0.25 J		10.99			<100	
XX	E18	DL02	24129	27.0	0.25		11.66			<100	
XX	E18	DL02	24130	28.0	0.32		21.05				
XX	E18	DL02	24131	29.0	0.05 UJ		7.60			<100	
XX	E18	DL02	24135	31.0	0.20		6.87			<100	
XX	E18	DL02	24136	32.0	0.06 UJ		6.36				
XX	E18	DL02	24137	33.0	0.15		2.45			<100	
XX	E18	DL02	24141	35.0	0.26		5.52			<100	
XX	E18	DL02	24142	37.0	0.23 J		8.55			<100	
XX	E18	DL02	24143	38.0	0.15		7.64				
XX	E18	DL02	24144	39.0	0.15 J		7.15			<100	
XX	E18	DL02	24160	41.0	0.31 J		7.44			<100	
XX	E18	DL02	24167	42.0	0.33		2.09				
XX	E18	DL02	24168	43.0	0.25		5.76			<100	
XX	E18	DL02	24191	45.0	0.31		9.75			147	
XX	E18	DL02	24192	46.0	0.37		13.41				
XX	E18	DL02	24193	47.0	0.92 J		22.54			199	
XX	E18	DL02	24213	49.0	0.78		11.11			<100	
XX	E18	DL02	24214	50.0	1.34		9.58				
XX	E18	DL02	24215	51.0	1.55 J		4.89			<100	
XX	E18	DL02	24221	52.0	0.74		3.44				
XX	E18	DL02	24222	53.0	1.08 J		6.25			<100	
XX	E18	DL02	24227	55.0	0.48		0.95 J			<100	
XX	E18	DL02	24229	57.0	0.73 J		4.13			<100	
XX	E18	DL02	24232	58.0	0.64 J		4.85				
XX	E18	DL02	24233	59.0	0.34		2.66			<100	
XX	E18	DL02	24238	61.0	0.38 J		1.61			<100	
XX	E18	DL02	24245	62.0	0.08 UJ		1.94				
XX	E18	DL02	24246	63.0	0.41		2.57			<100	
XX	**E18**	**DL02**	**24252**	**64.0**	**0.334**	**0.80**	**0.75**	**0.0026 U**	**0.0026 U**	**0.58 J**	**0.52 U**
XX	**E18**	**DL03**	**23399**	**1.0**	2.31		26.67 J			**382 J**	
XX	E18	DL03	23400	3.0	1.22		29.38			88.6 J	
XX	E18	DL03	23401	4.0	0.80		12.16 J			86.8 J	
XX	E18	DL03	23402	6.0	0.75		9.40 J				
XX	E18	DL03	23403	7.0	0.59		4.46			70.6 J	
XX	E18	DL03	23434	9.0	0.31		2.20			<100	
XX	E18	DL03	23435	11.0	0.31		2.33			<100	
XX	E18	DL03	23436	12.0	0.32		3.55 J				
XX	E18	DL03	23437	13.0	0.23		3.72			<100	
XX	E18	DL03	23440	15.0	0.42		4.33 J			<100	
XX	E18	DL03	23441	16.0	0.35		4.10				
XX	E18	DL03	23442	17.0	0.30		3.49			<100	
XX	E18	DL03	23461	19.0	0.29		5.92			<100	
XX	E18	DL03	23462	21.0	0.20		5.41			<100	
XX	E18	DL03	23469	22.0	0.29		4.60				
XX	E18	DL03	23470	23.0	0.27		8.05 J			<100	
XX	E18	DL03	23471	25.0	0.31		7.33			<100	
XX	E18	DL03	23476	26.0	0.20		7.22 J				
XX	E18	DL03	23477	27.0	0.26		8.41			<100	
XX	E18	DL03	23484	29.0	0.30		12.10			<100	
XX	E18	DL03	23485	31.0	0.20		5.45			<100	
XX	E18	DL03	23492	32.0	0.19		5.97				
XX	E18	DL03	23493	33.0	0.38		9.69 J			<100	
XX	E18	DL03	23494	35.0	0.21		4.70			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	E18	DL03	23495	36.0	0.30		8.62				
XX	E18	DL03	23496	37.0	0.06		11.22			<100	
XX	E18	DL03	23514	39.0	0.34		8.93			<100	
XX	E18	DL03	23523	40.0	0.05		5.78				
XX	E18	DL03	23524	41.0	0.41		14.49			<100	
XX	E18	DL03	23525	42.0	0.23		6.99				
XX	E18	DL03	23526	43.0	0.26		12.31			<100	
XX	E18	DL03	23532	44.0	0.26		23.20				
XX	E18	DL03	23533	45.0	0.16		8.02			152	
XX	E18	DL03	23534	46.0	0.29		16.69				
XX	E18	DL03	23535	47.0	0.80		52.75			145	
XX	E18	DL03	23536	48.0	0.77		16.06				
XX	E18	DL03	23537	49.0	1.58		18.12			68.2 J	
XX	E18	DL03	23542	50.0	1.43		15.20				
XX	E18	DL03	23543	51.0	0.83		2.07			<100	
XX	E18	DL03	23549	52.0	0.66		3.62				
XX	E18	DL03	23550	53.0	0.51		1.93			<100	
XX	E18	DL03	23562	54.0	0.50		1.91 J				
XX	E18	DL03	23563	55.0	0.36		1.29 J			<100	
XX	E18	DL03	23564	56.0	0.63		4.21 J				
XX	E18	DL03	23565	57.0	0.58		4.00			<100	
XX	E18	DL03	23590	58.0	0.29		1.80				
XX	E18	DL03	23591	59.0	0.33		0.70 J			<100	
XX	E18	DL03	23602	60.0	0.33		1.27 J				
XX	E18	DL03	23603	61.0	0.46		1.22 J			<100	
XX	E18	DL03	23612	62.0	0.37		0.61 J				
XX	E18	DL03	23613	63.0	0.41		3.23			<100	
XX	**E18**	**DL03**	**23614**	**64.0**	**0.326**	**0.537**	**0.592**	**0.0026 U**	**0.0026 U**	**0.39 J**	**0.075 J**
XX	F18	DL01	25635	-1.0	0.91		4.38			<100	
XX	F18	DL01	25636	1.0	1.07		14.63			195	
XX	F18	DL01	25647	3.0	NS		NS			<100	
XX	F18	DL01	25648	5.0	0.29 J		3.85			<100	
XX	F18	DL01	25649	6.0	0.47		2.22				
XX	F18	DL01	25650	7.0	0.31		2.41			<100	
XX	F18	DL01	25662	9.0	0.34		1.67			<100	
XX	F18	DL01	25663	10.0	0.18 J		3.47				
XX	F18	DL01	25664	11.0	0.23		1.41			<100	
XX	F18	DL01	25671	12.0	0.31		1.93				
XX	F18	DL01	25672	13.0	0.28		2.33			<100	
XX	F18	DL01	25678	14.0	0.25		2.04				
XX	F18	DL01	25679	15.0	0.26 J		1.64			<100	
XX	F18	DL01	25680	17.0	0.24		1.52			<100	
XX	F18	DL01	25681	19.0	0.06		1.98			<100	
XX	F18	DL01	25684	20.0	0.30		2.16 J				
XX	F18	DL01	25685	21.0	0.03 UJ		1.60			<100	
XX	F18	DL01	25686	23.0	0.32		1.67			<100	
XX	F18	DL01	25691	24.0	0.33 J		1.88				
XX	F18	DL01	25692	25.0	0.19		1.88			<100	
XX	F18	DL01	25695	27.0	0.39		1.66 J			<100	
XX	F18	DL01	25696	28.0	0.06		6.52				
XX	F18	DL01	25697	29.0	0.30 J		2.64			<100	
XX	F18	DL01	25698	30.0	0.28		3.46				
XX	F18	DL01	25699	31.0	0.26		2.25			<100	
XX	F18	DL01	25706	32.0	0.03 UJ		0.40 J				

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	F18	DL01	25707	33.0	0.15		0.76 J			<100	
XX	F18	DL01	25720	34.0	0.19		0.27				
XX	F18	DL01	25721	35.0	0.24 J		0.50 J			<100	
XX	F18	DL01	25722	36.0	0.20		0.61 J				
XX	F18	DL01	25723	37.0	0.29		0.41			<100	
XX	F18	DL01	25724	38.0	0.18 J		1.66				
XX	F18	DL01	25725	39.0	0.15		1.12			<100	
XX	F18	DL01	25736	40.0	0.24		0.85 J				
XX	F18	DL01	25735	41.0	0.24		1.01 J			<100	
XX	F18	DL01	25741	42.0	0.16 J		0.97 J				
XX	F18	DL01	25742	43.0	0.21		0.42			<100	
XX	F18	DL01	25747	44.0	0.24 J		1.00 J				
XX	F18	DL01	25748	45.0	0.51		3.89			<100	
XX	F18	DL01	25749	46.0	1.60		11.64				
XX	F18	DL01	25750	47.0	0.59		8.31			79.2 J	
XX	F18	DL01	25757	48.0	1.17 J		15.65 J				
XX	F18	DL01	25758	49.0	1.25		13.26			82.2 J	
XX	F18	DL01	25767	50.0	1.24		12.25				
XX	F18	DL01	25768	51.0	1.34 J		8.50 J			<100	
XX	F18	DL01	25769	52.0	0.85		4.04 J				
XX	F18	DL01	25770	53.0	0.93 J		3.31 J			<100	
XX	F18	DL01	25779	54.0	0.30		2.26 J				
XX	F18	DL01	25780	55.0	0.65		1.00 J			<100	
XX	F18	DL01	25787	56.0	0.61 J		6.80 J				
XX	F18	DL01	25788	57.0	0.38		0.96 J			<100	
XX	F18	DL01	25789	58.0	0.31		2.64 J				
XX	F18	DL01	25790	59.0	0.32 J		1.70 J			<100	
XX	F18	DL01	25810	60.0	0.43		1.49				
XX	F18	DL01	25811	61.0	0.30 J		1.21 J			<100	
XX	F18	DL01	25817	62.0	0.32		0.68 J				
XX	F18	DL01	25818	63.0	0.28		0.76 J			<100	
XX	**F18**	**DL01**	**25819**	**64.0**	**0.285**	**0.70**	**0.68**	**0.0035 U**	**0.0025 U**	**0.25 J**	**0.52 U**
XX	G18	DL01	24281	-1.0	0.92		2.01 J			<100	
XX	G18	DL01	24282	1.0	0.92 J		36.18			42.1 J	
XX	**G18**	**DL01**	**24291**	**3.0**	NS		NS			**921 J**	
XX	G18	DL01	24292	5.0	1.74		39.65			473	
XX	G18	DL01	24295	7.0	2.71		70.01			728	
XX	G18	DL01	24296	9.0	0.09		10.71			<100	
XX	G18	DL01	24300	10.0	0.41		10.44				
XX	G18	DL01	24301	11.0	0.44		10.16			80.8 J	
XX	G18	DL01	24305	13.0	0.33 J		6.81			<100	
XX	G18	DL01	24306	14.0	0.34		8.13				
XX	G18	DL01	24307	15.0	0.20		7.62			134	
XX	G18	DL01	24312	17.0	0.50 J		3.12			<100	
XX	G18	DL01	24313	19.0	0.30		3.45			<100	
XX	G18	DL01	24319	20.0	0.29 J		3.75				
XX	G18	DL01	24320	21.0	0.18		3.18			<100	
XX	G18	DL01	24321	23.0	0.41 J		2.95			<100	
XX	G18	DL01	24329	24.0	0.20		2.51				
XX	G18	DL01	24330	25.0	0.27		2.61 J			<100	
XX	G18	DL01	24331	27.0	0.30 J		6.29			<100	
XX	G18	DL01	24336	29.0	0.03		4.11			<100	
XX	G18	DL01	24347	30.0	0.25		3.94				
XX	G18	DL01	24348	31.0	0.21		2.88			<100	

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	G18	DL01	24349	33.0	0.30 J		3.44			<100	
XX	G18	DL01	24355	34.0	0.44		2.16 J				
XX	G18	DL01	24356	35.0	0.25		1.56			<100	
XX	G18	DL01	24364	37.0	0.22 J		1.68 J			<100	
XX	G18	DL01	24365	39.0	0.20		1.56			<100	
XX	G18	DL01	24371	40.0	0.28		2.71				
XX	G18	DL01	24373	41.0	0.22 J		1.85 J			<100	
XX	G18	DL01	24376	43.0	0.38 J		1.85			50.9 J	
XX	G18	DL01	24390	44.0	0.42		2.91				
XX	G18	DL01	24391	45.0	0.53		4.41			<100	
XX	G18	DL01	24398	46.0	0.88		11.57				
XX	G18	DL01	24399	47.0	0.51		11.78			53.3 J	
XX	G18	DL01	24413	49.0	1.22		21.26			<100	
XX	G18	DL01	24414	51.0	1.57 J		16.32			99.1 J	
XX	G18	DL01	24425	52.0	0.70		7.65				
XX	G18	DL01	24426	53.0	0.72		3.65			<100	
XX	G18	DL01	24427	54.0	0.37 J		2.68				
XX	G18	DL01	24428	55.0	0.57		4.18			<100	
XX	G18	DL01	24431	57.0	0.86		6.08			<100	
XX	G18	DL01	24432	58.0	0.54		4.29				
XX	G18	DL01	24433	59.0	0.57		1.53			<100	
XX	G18	DL01	24438	60.0	0.47		2.21				
XX	G18	DL01	24439	61.0	0.51		2.08			<100	
XX	G18	DL01	24454	63.0	0.57		1.46 J			<100	
XX	**G18**	**DL01**	**24455**	**64.0**	**0.279**	**1.52**	**1.51**	**0.0026 U**	**0.0026 U**	**0.27 J**	**0.52 U**
XX	H18	DL01	24842	-1.0	1.03 J		4.68			45.3 J	
XX	H18	DL01	24843	1.0	0.96		43.18			115	
XX	H18	DL01	24862	5.0	0.77		22.79			48.2 J	
XX	H18	DL01	24863	7.0	0.08		14.10			59.7 J	
XX	H18	DL01	24864	8.0	0.06 UJ		3.82				
XX	H18	DL01	24865	9.0	0.28		6.66			<100	
XX	H18	DL01	24866	10.0	0.34		3.01				
XX	H18	DL01	24867	11.0	0.32		3.85			49.2 J	
XX	H18	DL01	24868	12.0	0.25		5.89				
XX	H18	DL01	24869	13.0	0.32 J		4.66			41.5 J	
XX	H18	DL01	24870	14.0	0.24 J		3.00				
XX	H18	DL01	24871	15.0	0.36		4.08			<100	
XX	H18	DL01	24885	16.0	0.30 J		3.79				
XX	H18	DL01	24886	17.0	0.28		4.96			<100	
XX	H18	DL01	24887	18.0	0.30		2.33				
XX	H18	DL01	24888	19.0	0.26		6.06			<100	
XX	H18	DL01	24894	20.0	0.23		4.40				
XX	H18	DL01	24895	21.0	0.05 UJ		3.28			<100	
XX	H18	DL01	24898	22.0	0.27		4.54				
XX	H18	DL01	24899	23.0	0.28 J		2.49			<100	
XX	H18	DL01	24900	24.0	0.27		3.45				
XX	H18	DL01	24901	25.0	0.29		3.41			<100	
XX	H18	DL01	24902	26.0	0.23 J		3.40				
XX	H18	DL01	24903	27.0	0.24		3.36			<100	
XX	H18	DL01	24907	28.0	0.26		3.06				
XX	H18	DL01	24908	29.0	0.20 J		2.44			<100	
XX	H18	DL01	24917	30.0	0.23		2.55				
XX	H18	DL01	24918	31.0	0.06		2.56			<100	
XX	H18	DL01	24919	32.0	0.33 J		1.16 J				

Table 5
Cell 9 Soil Boring Sample Results

Cell	Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
XX	H18	DL01	24920	33.0	0.27 J		1.60			<100	
XX	H18	DL01	24921	34.0	0.31		2.50				
XX	H18	DL01	24922	35.0	0.27		2.14			<100	
XX	H18	DL01	24924	36.0	0.32		3.19				
XX	H18	DL01	24925	37.0	0.13 J		1.17 J			<100	
XX	H18	DL01	24928	38.0	0.04		1.38				
XX	H18	DL01	24929	39.0	0.32		1.76			<100	
XX	H18	DL01	24932	40.0	0.26		2.10 J				
XX	H18	DL01	24933	41.0	0.21		1.96 J			<100	
XX	H18	DL01	24934	42.0	0.06		0.77 J				
XX	H18	DL01	24935	43.0	0.24		1.24			<100	
XX	H18	DL01	24939	44.0	0.37		2.86				
XX	H18	DL01	24940	45.0	0.46		4.15 J			<100	
XX	H18	DL01	24941	46.0	0.63		5.64				
XX	H18	DL01	24942	47.0	1.06		14.25			<100	
XX	H18	DL01	24943	48.0	1.22		14.48 J				
XX	H18	DL01	24944	49.0	0.90		3.78			<100	
XX	H18	DL01	24949	50.0	0.87		6.45 J				
XX	H18	DL01	24950	51.0	1.62		4.24			<100	
XX	H18	DL01	24954	52.0	0.73		1.04				
XX	H18	DL01	24955	53.0	0.83		2.07 J			<100	
XX	H18	DL01	24957	54.0	0.78		5.05				
XX	H18	DL01	24958	55.0	0.65		6.45 J			<100	
XX	H18	DL01	24963	56.0	0.36		2.82				
XX	H18	DL01	24964	57.0	0.55		3.21			<100	
XX	H18	DL01	24968	58.0	0.35		0.67 UJ				
XX	H18	DL01	24969	59.0	0.46		3.35			<100	
XX	H18	DL01	24970	60.0	0.60		4.16 J				
XX	H18	DL01	24971	61.0	0.48		4.09			<100	
XX	H18	DL01	24972	62.0	0.58		3.84				
XX	H18	DL01	24973	63.0	0.61		1.73 J			<100	
XX	**H18**	**DL01**	**24978**	**64.0**	**0.270**	**0.98**	**0.92**	**0.0026 U**	**0.0026 U**	**0.99 J**	**0.11 J**

Table 5
Cell 9 Soil Boring Sample Results

Analytes:

Th-232 - Thorium-232
U-234 - Uranium-234
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel
Be - Beryllium

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

R - Validation qualifier used to indicate that the result is considered unusable.
U - Validation qualifier used to indicate that the result was qualified as non-detect.
J - Validation qualifier used to indicate that the result is considered an estimate.
UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 5 for boring locations.
DL sample is analyzed on Site for radionuclides (Th-232 and U-238) using the gamma spectroscopy system.
DL sample is analyzed on Site for Ni using x-ray fluorescence spectroscopy by Stone Environmental Inc. Ni result that is between the detection limit of 40 mg/kg and the reporting limit of 100 mg/kg is estimated. Ni result that is less than the detection limit of 40 mg/kg is reported as less than the reporting limit (<100 mg/kg).
Supplemental DL sample is analyzed for Ni off Site by Severn Trent Laboratories, Inc. and the result is bold.
SP sample result is bold and indicates that analysis was performed off Site by Severn Trent Laboratories, Inc.
NS - Not sampled due to insufficient recovery.
Due to an artifact in the laboratory data reporting program, the on-Site analytical data should be interpreted to two significant figures.
Blank cell indicates analysis was not performed.
Result is above Site cleanup level.

Table 6
SU04 009 Delineation Soil Boring Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
G14	DL01	30037	0.0	0.86		4.18	0.082	0.082		
G14	DL01	30038	2.0	1.00		4.04 J	0.091	0.091		
G14	DL01	30041	3.0	1.07		9.72			<100	
G14	DL01	30044	5.0	NS		NS			<100	
G14	DL01	30045	6.0	NS		NS	0.089	0.249		
G14	DL01	30046	7.0	0.91		7.52			<100	
G14	DL01	30053	8.0	1.07		3.55	0.088	0.213		
G14	DL01	30054	9.0	0.65		3.07			<100	
G14	**DL01**	**30056**	**10.0**	0.28		2.34	**0.012 U**	**0.0093 J**		
G14	DL01	30057	11.0	0.08		0.94			<100	
G14	DL01	30058	12.0	0.31		1.90	0.086	0.148		
G14	DL01	30059	13.0	0.32		0.56			<100	
G14	DL01	30060	14.0	0.07		1.37 J	0.095	0.258 J		
G14	DL01	30061	15.0	0.07		0.78 J			<100	
G14	DL01	30062	16.0	0.40		1.34	0.185	0.542 J		
G14	DL01	30063	17.0	0.09		1.53 J			<100	
G14	DL01	30071	18.0	0.37		1.37 J	0.185	0.277 J		
G14	DL01	30072	19.0	0.23		1.87 J			<100	
G14	**DL01**	**30073**	**20.0**	0.23		0.61	**0.0025 U**	**0.<100 U**		
G14	DL01	30074	21.0	0.28		1.29			<100	
G14	DL01	30076	22.0	NS		NS	0.194	0.232 J		
G14	DL01	30077	23.0	0.05		0.95 J			<100	
G14	DL01	30078	24.0	NS		NS	0.178	0.382 J		
G14	DL01	30079	25.0	0.05		1.87 J			<100	
G14	DL01	30080	26.0	0.27		1.25 J	0.193	0.488 J		
G14	DL01	30081	27.0	0.27		0.60 UJ			<100	
G14	DL01	30087	29.0	0.30		0.88 J			<100	
G14	**DL01**	**30088**	**30.0**	**0.158**	**0.57**	**0.500**	**0.0025 U**	**0.071 U**	**2.3 J**	**0.16 J**
G14	DL01	30614	33.0	0.20		1.54 J			<100	
G14	DL01	30615	34.0	0.26		1.39	0.185	0.274		
G14	DL01	30617	35.0	0.20		0.61 J			<100	
G14	DL01	30618	36.0	NS		NS	0.206	0.341 J		
G14	DL01	30619	37.0	0.31		0.74 J			<100	
G14	DL01	30620	38.0	0.35		0.77 UJ	0.222	0.316 J		
G14	DL01	30621	39.0	0.04		1.14 J			<100	
G14	**DL01**	**30622**	**40.0**	0.25		2.02 J	**0.013 U**	**0.110 J**		
G14	DL01	30623	41.0	0.03		1.90 J			<100	
G14	DL01	30624	42.0	0.58		0.87 J	0.218	0.218		
G14	DL01	30625	43.0	0.39		0.93 J			<100	
G14	DL01	30626	44.0	0.08		1.61 J	0.226	0.226		
G14	DL01	30627	45.0	1.14		2.53			<100	
G14	DL01	30628	46.0	0.93		3.06	0.108	0.108		
G14	DL01	30629	47.0	0.47 J		3.49			<100	
G14	DL01	30630	48.0	0.69		1.05	0.222	0.222		
G14	DL01	30631	49.0	0.51		3.63			<100	
G14	**DL01**	**30641**	**50.0**	0.55		1.08	**0.015 U**	**0.015 UJ**		
G14	DL01	30642	51.0	1.49 J		2.03 J			<100	
G14	DL01	30645	52.0	0.58		2.06	0.085	0.085		
G14	DL01	30655	53.0	0.70 J		0.60			<100	
G14	DL01	30662	54.0	0.67		3.18 J	0.112	0.112		

Table 6
SU04 009 Delineation Soil Boring Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
G14	DL01	30663	55.0	0.35		0.45			<100	
G14	DL01	30667	56.0	0.57		0.92 J	0.108	0.108		
G14	DL01	30668	57.0	0.43 J		0.71			<100	
G14	DL01	30671	58.0	0.09		0.45 J	0.096	0.096		
G14	DL01	30672	59.0	0.51		1.82			<100	
G14	DL01	30673	60.0	0.38 J		0.56	0.114	0.114		
G14	DL01	30674	61.0	0.40		1.17 J			<100	
G14	DL01	30675	62.0	NS		NS	0.116	0.116		
G14	DL01	30676	63.0	0.10		1.22			<100	
G14	**DL01**	**30677**	**64.0**	**0.187**	**0.134 J**	**0.172**	**0.013 U**	**0.013 UJ**	**0.40 J**	**0.065 J**
G14	DL02	29976	0.0	0.81		2.57 J	0.086	0.086		
G14	DL02	29977	2.0	0.90		6.07	0.093	0.093		
G14	DL02	29978	3.0	1.25		12.63 J			49.1 J	
G14	DL02	29979	4.0	0.75		2.86 J	0.094	0.094		
G14	DL02	29980	5.0	0.70		6.59 J			<100	
G14	DL02	29981	6.0	0.77		6.56	0.089	0.167		
G14	DL02	29982	7.0	0.66		2.17			<100	
G14	DL02	30000	8.0	0.97		8.18 J	0.090	0.090		
G14	DL02	30001	9.0	1.06		3.72 J			<100	
G14	**DL02**	**30006**	**10.0**	1.07		2.19 J	**0.0028 U**	**0.0028 UJ**		
G14	DL02	30007	11.0	0.37		2.86			<100	
G14	DL02	30008	12.0	NS		NS	0.098	0.098		
G14	DL02	30009	13.0	0.26		0.27			<100	
G14	DL02	30010	14.0	0.43		1.53 J	0.111	0.111		
G14	DL02	30011	15.0	0.27		1.96			<100	
G14	DL02	30012	16.0	0.40		1.18 J	0.096	0.096		
G14	DL02	30013	17.0	0.22		0.46 J			<100	
G14	DL02	30014	19.0	0.22		0.53 J			<100	
G14	**DL02**	**30015**	**20.0**	0.33		1.70	**0.0025 U**	**0.0025 UJ**		
G14	DL02	30016	21.0	0.26		1.07 J			<100	
G14	DL02	30019	23.0	0.28		0.56 J			<100	
G14	DL02	30027	24.0	NS		NS	0.098	0.098		
G14	DL02	30024	25.0	0.30		2.89			<100	
G14	DL02	30025	26.0	0.05		0.35	0.103	0.103		
G14	DL02	30026	27.0	0.31		1.64 J			<100	
G14	DL02	30028	28.0	0.36		1.71 J	0.093	0.093		
G14	DL02	30029	29.0	0.28		1.68			<100	
G14	**DL02**	**30033**	**30.0**	**0.145**	**0.246**	**0.239**	**0.0026 U**	**0.0026 UJ**	**2.3 J**	**0.13 J**
G14	DL03	30094	-1.0	0.88		1.23			<100	
G14	DL03	30095	0.0	0.76		4.67	0.094	0.094		
G14	DL03	30103	2.0	0.85		3.68	0.090	0.112		
G14	DL03	30106	3.0	0.73		1.43 J			<100	
G14	DL03	30107	4.0	1.08		2.55 J	0.092	0.092		
G14	DL03	30108	5.0	0.83		4.49			<100	
G14	DL03	30109	6.0	0.79		2.78	0.093	0.756		
G14	DL03	30110	7.0	0.64		1.71			<100	
G14	DL03	30120	9.0	1.52		3.20			<100	
G14	**DL03**	**30121**	**10.0**	0.81		2.08 J	**0.0026 U**	**0.0026 UJ**		
G14	DL03	30122	11.0	0.36		1.08			<100	
G14	DL03	30125	12.0	NS		NS	0.095	0.095		

Table 6
SU04 009 Delineation Soil Boring Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
G14	DL03	30126	13.0	0.57		1.31 J			<100	
G14	DL03	30128	14.0	0.38		2.14 J	0.095	0.095		
G14	DL03	30129	15.0	0.38		0.65			<100	
G14	DL03	30130	16.0	0.55		2.21	0.095	0.095		
G14	DL03	30131	17.0	0.31		1.45 J			<100	
G14	DL03	30134	18.0	0.22		0.89 J	0.099	0.099		
G14	DL03	30135	19.0	0.42		0.90			<100	
G14	**DL03**	**30136**	**20.0**	NS		NS	**0.0025 U**	**0.0025 UJ**		
G14	DL03	30137	21.0	0.21		0.69 J			<100	
G14	DL03	30138	22.0	0.28		1.75	0.096	0.096		
G14	DL03	30139	23.0	0.23		1.08			<100	
G14	DL03	30140	24.0	NS		NS	0.093	0.093		
G14	DL03	30141	25.0	0.24		0.88 J			<100	
G14	DL03	30142	26.0	0.30		1.07 J	0.099	0.099		
G14	DL03	30143	27.0	0.30		0.87 J			<100	
G14	DL03	30144	28.0	0.04		0.39 UJ	0.095	0.095		
G14	DL03	30145	29.0	0.30		0.72 J			<100	
G14	**DL03**	**30146**	**30.0**	**0.272**	**0.188**	**0.159**	**0.0025 U**	**0.0025 UJ**	**2.6 J**	**0.16 J**
G13	DL01	30534	-1.0	0.97		1.26 J			<100	
G13	DL01	30535	0.0	1.05		7.84 J	0.091	0.091		
G13	DL01	30536	2.0	1.07		9.26	1.202	0.966		
G13	DL01	30537	3.0	1.07		12.97 J			<100	
G13	DL01	30541	4.0	NS		NS	0.092	0.092		
G13	DL01	30542	5.0	0.65		2.29 J			<100	
G13	DL01	30543	6.0	0.42		1.81 J	0.086	0.086		
G13	DL01	30544	7.0	0.64		1.49 J			<100	
G13	DL01	30549	8.0	1.00		9.07 J	0.109	0.476		
G13	DL01	30550	9.0	0.69		3.28 J			<100	
G13	**DL01**	**30551**	**10.0**	NS		NS	**0.0025 U**	**0.0025 UJ**		
G13	DL01	30552	11.0	0.32		1.22 J			<100	
G13	DL01	30557	12.0	0.53		2.48 J	0.111	0.111		
G13	DL01	30558	13.0	0.39		0.88 J			<100	
G13	DL01	30559	14.0	0.42		1.94 J	0.094	0.094		
G13	DL01	30560	15.0	0.04		1.21 J			<100	
G13	DL01	30561	16.0	0.35		3.46 J	0.090	0.090		
G13	DL01	30562	17.0	0.30		1.40 J			<100	
G13	DL01	30563	19.0	0.25		1.74 J			<100	
G13	**DL01**	**30575**	**20.0**	NS		NS	**0.00076 J**	**0.00099 J**		
G13	DL01	30576	21.0	0.31		1.62 J			<100	
G13	DL01	30577	23.0	0.09		1.17 J			<100	
G13	DL01	30580	24.0	0.09		1.29 J	0.087	0.087		
G13	DL01	30581	25.0	0.31		0.82 J			<100	
G13	DL01	30582	26.0	0.32		1.67 J	0.099	0.099		
G13	DL01	30583	27.0	0.23		0.95 J			<100	
G13	DL01	30584	28.0	0.25		1.17 J	0.092	0.092		
G13	DL01	30585	29.0	0.26		1.24 J			<100	
G13	**DL01**	**30586**	**30.0**	**0.149**	**0.284 J**	**0.257**	**0.0026 U**	**0.0026 UJ**	**1.8 J**	**0.13 J**
F14	DL01	30154	0.0	0.69		2.38 J	0.091	0.091		
F14	DL01	30164	2.0	NS		NS	0.091	0.091		
F14	DL01	30165	3.0	NS		NS			<100	

Table 6
SU04 009 Delineation Soil Boring Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
F14	DL01	30166	5.0	NS		NS			<100	
F14	DL01	30167	7.0	NS		NS			<100	
F14	DL01	30168	8.0	0.91		3.36	0.080	0.317		
F14	DL01	30169	9.0	0.59		1.85 J			<100	
F14	**DL01**	**30170**	**10.0**	0.44		2.70 J	**0.0025 U**	**0.0025 UJ**		
F14	DL01	30171	11.0	0.23		1.22 J			<100	
F14	DL01	30172	12.0	NS		NS	0.090	0.090		
F14	DL01	30173	13.0	0.41		1.05 J			<100	
F14	DL01	30176	14.0	0.37		2.22 J	0.091	0.091		
F14	DL01	30177	15.0	0.34		0.60			<100	
F14	DL01	30178	16.0	0.06		0.94 J	0.095	0.095		
F14	DL01	30179	17.0	0.32		1.99 J			<100	
F14	DL01	30180	18.0	NS		NS	0.092	0.092		
F14	DL01	30181	19.0	0.18		0.78 J			<100	
F14	**DL01**	**30190**	**20.0**	NS		NS	**0.0025 U**	**0.0020 J**		
F14	DL01	30191	21.0	0.06		2.52			<100	
F14	DL01	30192	22.0	NS		NS	0.086	0.086		
F14	DL01	30193	23.0	0.29		1.50 J			<100	
F14	DL01	30194	24.0	NS		NS	0.094	0.094		
F14	DL01	30195	25.0	0.28		1.36			<100	
F14	DL01	30196	26.0	0.05		0.96 J	0.095	0.346 J		
F14	DL01	30197	27.0	0.27		0.67 J			<100	
F14	DL01	30201	28.0	0.30		0.49	0.099	0.203 J		
F14	DL01	30202	29.0	0.05		1.49 J			<100	
F14	**DL01**	**30203**	**30.0**	**0.128**	**0.189**	**0.126**	**0.0025 U**	**0.0033 U**	**2.6 J**	**0.18 J**
F13	DL01	30475	-1.0	NS		NS			<100	
F13	DL01	30476	0.0	0.96		2.56	0.088	0.088		
F13	DL01	30477	2.0	NS		NS	0.103	0.103		
F13	DL01	30478	3.0	1.13		3.06 J			<100	
F13	DL01	30479	5.0	0.79		0.62			<100	
F13	DL01	30485	6.0	0.45		2.76 J	0.101	0.101		
F13	DL01	30486	7.0	0.90		2.20			<100	
F13	DL01	30487	9.0	0.41		1.18 J			<100	
F13	DL01	30494	11.0	0.25		1.29 J			<100	
F13	DL01	30495	12.0	0.64		1.84 J	0.102	0.102		
F13	DL01	30496	13.0	1.09		1.67 J			<100	
F13	DL01	30503	14.0	0.72		2.37 J	0.090	0.090		
F13	DL01	30504	15.0	0.06		0.91 J			<100	
F13	DL01	30505	16.0	0.50		2.29	0.094	0.094		
F13	DL01	30506	17.0	0.06		1.86 J			<100	
F13	DL01	30508	19.0	0.19		0.94 J			<100	
F13	**DL01**	**30509**	**20.0**	NS		NS	**0.0025 U**	**0.0025 UJ**		
F13	DL01	30510	21.0	0.32		0.61 J			<100	
F13	DL01	30511	22.0	NS		NS	0.093	0.093		
F13	DL01	30512	23.0	0.21		0.97 J			<100	
F13	DL01	30513	24.0	0.31		2.04	0.091	0.091		
F13	DL01	30514	25.0	0.06		1.04 J			<100	
F13	DL01	30520	26.0	0.38		2.27 J	0.095	0.095		
F13	DL01	30521	27.0	0.39		1.01 J			<100	
F13	DL01	30522	28.0	0.36		3.40 J	0.089	0.089		

Table 6
SU04 009 Delineation Soil Boring Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)	Be (mg/kg)
F13	DL01	30523	29.0	0.23		1.31 J			<100	
F13	**DL01**	**30524**	**30.0**	**0.137**	**0.159 J**	**0.149**	**0.0025 U**	**0.0025 UJ**	**2.0 J**	**0.15 J**

Table 6
SU04 009 Delineation Soil Boring Sample Results

Analytes:

Th-232 - Thorium-232
U-234 - Uranium-234
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel
Be - Beryllium

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

U - Validation qualifier used to indicate that the result was qualified as non-detect.

J - Validation qualifier used to indicate that the result is considered an estimate.

UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 1 for boring locations.

DL sample is analyzed on Site for radionuclides (Th-232 and U-238) using the gamma spectroscopy system.

DL sample is analyzed on Site for Ni using x-ray fluorescence spectroscopy by Stone Environmental Inc. Ni result that is between the detection limit of 40 mg/kg and the reporting limit of 100 mg/kg is estimated. Ni result that is less than the detection limit of 40 mg/kg is reported as less than the reporting limit (<100 mg/kg).

DL sample is analyzed for volatile organic compounds (TCE and PCE) using solid phase microextraction and capillary gas chromatography by Stone Environmental Inc.

DL sample at 10 feet bgs and 20 feet bgs is analyzed for volatile organic compounds (TCE and PCE) off Site by Severn Trent Laboratories, Inc. and the result is bold

SP sample result is bold and indicates that analysis was performed off Site by Severn Trent Laboratories, Inc.

NS - Not sampled due to insufficient recovery.

Due to an artifact in the laboratory data reporting program, the on-Site analytical data should be interpreted to two significant figures.

Blank cell indicates analysis was not performed.

[ ] Result is above Site cleanup level.

Table 7
NYSDEC Additional Borings Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
I19	DECB	30722	-1.0	0.83	1.66 J	0.091	0.091	
I19	DECB	30723	0.0	0.89	8.02			71.8 J
I19	DECB	30724	1.0	1.12	20.07	0.085	2.704	
I19	DECB	30725	5.0	0.71	3.42	0.093	0.093	
I19	DECB	30726	6.0	1.07	3.62			<100
I19	DECB	30727	7.0	0.87	4.16	0.093	0.093	
I19	DECB	30733	8.0	NS	NS			<100
I19	DECB	30734	9.0	0.35	2.06	0.092	0.092	
K17	DECC	30760	-1.0	0.79	0.83	0.086	0.086	
K17	DECC	30759	1.0	1.17	9.70	0.087	0.087	
K17	DECC	30761	2.0	0.96	12.55			89.6 J
K17	DECC	30762	3.0	0.91	5.56	0.085	6.352	
K17	DECC	30763	5.0	0.65	5.45	0.081	1.809	
K17	DECC	30764	7.0	0.82	9.42	0.091	1.252	
K17	DECC	30765	8.0	0.28	1.51			<100
K17	DECC	30766	9.0	0.29	1.91	0.094	0.094	
J19	DECD	30745	-1.0	0.72	3.16 J	0.087	0.087	
J19	DECD	30746	0.0	NS	NS			<100
J19	DECD	30747	1.0	1.14	14.37	0.089	1.320	
J19	DECD	30748	3.0	0.41	5.99	0.093	1.988	
J19	DECD	30749	5.0	NS	NS	0.098	0.211	
J19	DECD	30750	7.0	1.29	3.00	0.086	0.086	
J19	DECD	30752	8.0	0.72	4.42			<100
J19	DECD	30753	9.0	0.61	2.17	0.086	0.086	
N12	DECF	30751	-1.0	0.75	1.71	0.079	0.079	
N12	DECF	30754	1.0	0.75	1.18 J	0.079	0.079	
N12	DECF	30755	5.0	0.72	3.54	0.087	0.777	
N12	DECF	30756	7.0	0.72	1.04 J	0.089	0.320	
N12	DECF	30757	8.0	0.72	1.12 J			<100
N12	DECF	30758	9.0	0.49	1.13 J	0.089	0.089	
L17	DECH	30778	-1.0	0.92	1.67	0.088	0.088	
L17	DECH	30779	0.0	NS	NS			<100
L17	DECH	30780	1.0	1.09	10.46	0.091	0.114	
L17	DECH	30781	2.0	NS	NS			<100
L17	DECH	30782	3.0	1.23	18.46	0.226	3.753	
L17	DECH	30783	4.0	NS	NS			<100
L17	DECH	30784	5.0	NS	NS	0.074	2.104 J	61.8 J
M19	DECI	30767	-1.0	1.22	4.16	0.083	0.083	
M19	DECI	30768	0.0	1.14	4.31			<100
M19	DECI	30769	1.0	1.06	12.51	0.093	4.221	
M19	DECI	30770	2.0	1.24	2.36 J			<100
M19	DECI	30771	3.0	1.17	2.52 J	0.081	0.215	
M19	DECI	30772	4.0	1.25	3.82			<100
M19	DECI	30773	5.0	1.11	2.48	0.082	0.131	
M19	DECI	30774	6.0	1.32	1.19			<100
M19	DECI	30775	7.0	0.83	1.83	0.085	0.105	
M19	DECI	30776	8.0	0.79	2.30			<100

Table 7
NYSDEC Additional Borings Sample Results

Subcell	Boring Location	Sample ID	Depth (feet)	Th-232 (pCi/g)	U-238 (pCi/g)	TCE (mg/kg)	PCE (mg/kg)	Ni (mg/kg)
M19	DECI	30777	9.0	0.23	0.56 J	0.101	0.101	
L16	DECK	30788	-1.0	0.76	2.45			<100
L16	DECK	30789	0.0	0.99	3.12	0.099	0.099	
L16	DECK	30790	1.0	0.95	6.98			<100
L16	DECK	30791	2.0	0.79	12.24	0.377 J	13.158 J	
L16	DECK	30792	4.0	1.28	8.68	0.103	4.282	
L16	DECK	30793	5.0	1.11	9.69			<100
L16	DECK	30794	6.0	0.42	1.16 J	0.099	0.099	
L16	DECK	30795	7.0	NS	NS			<100
L16	DECK	30796	8.0	0.57	1.34 J	0.105	0.105	
L16	DECK	30797	9.0	NS	NS			<100
L16	DECK	30798	10.0	0.20	1.16	0.092	0.092	
L16	DECK	30799	11.0	0.34	3.18 J			<100
L16	DECK	30800	12.0	0.33	0.62 J	0.091	0.091	
L16	DECK	30801	13.0	NS	NS			<100
L16	DECK	30802	14.0	0.35	0.84 J	0.092	0.092	
L17	DECL	30803	-1.0	NS	NS			<100
L17	DECL	30804	0.0	1.04	3.83	0.092	0.233	
L17	DECL	30805	2.0	1.24	2.89	0.096	3.919	
L17	DECL	30806	3.0	1.40	6.69 J			<100
L17	DECL	30807	4.0	0.98	33.64	0.162	4.286	
L17	DECL	30808	5.0	0.62	9.33			<100
L17	DECL	30809	6.0	0.72	4.40 J	0.097	0.097	
L17	DECL	30810	7.0	0.62	5.89			<100
L17	DECL	30811	8.0	0.60	5.47	0.095	0.095	
L17	DECL	30812	9.0	NS	NS			<100
L17	DECL	30813	10.0	0.23	2.05	0.092	0.092	
L17	DECL	30814	11.0	NS	NS			<100
L17	DECL	30815	12.0	0.37	4.06	0.094	0.094	
L17	DECL	30816	13.0	0.27	3.14			<100
L17	DECL	30817	14.0	0.29	0.77 UJ	0.096	0.096	

Table 7
NYSDEC Additional Borings Sample Results

Analytes:

Th-232 - Thorium-232
U-238 - Uranium-238
TCE - Trichloroethene
PCE - Tetrachloroethene
Ni - Nickel

Units:

pCi/g - picoCurie/gram
mg/kg - milligram/kilogram

Qualifiers:

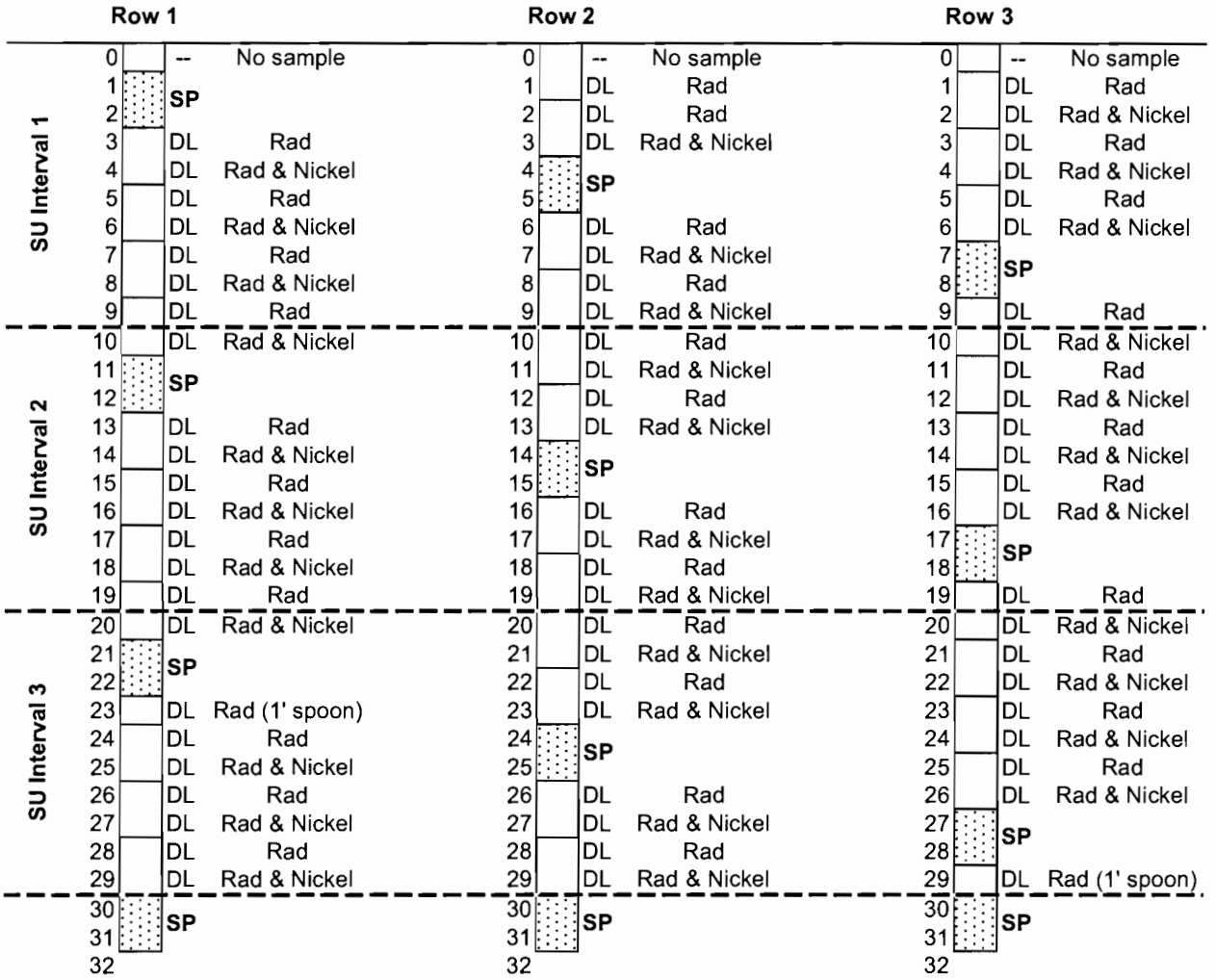
J - Validation qualifier used to indicate that the result is considered an estimate.
UJ - Validation qualifier used to indicate that the result was qualified as non-detect and the associated reporting limit is considered an estimate.

Notes:

See Figure 1 for boring locations
DL sample is analyzed on Site for radionuclides (Th-232 and U-238) using the gamma spectroscopy system.
DL sample is analyzed on Site for Ni using x-ray fluorescence spectroscopy by Stone Environmental Inc. Ni result that is between the detection limit of 40 mg/kg and the reporting limit of 100 mg/kg is estimated. Ni result that is less than the detection limit of 40 mg/kg is reported as less than the reporting limit (<100 mg/kg).
DL sample is analyzed for volatile organic compounds (TCE and PCE) using solid phase microextraction and capillary gas chromatography by Stone Environmental Inc.
NS - Not sampled due to insufficient recovery.
Due to an artifact in the laboratory data reporting program, the on-Site analytical data should be interpreted to two significant figures.
Blank cell indicates analysis was not performed.
[ ] Result is above Site cleanup level.

Figure 2

Intervals, Increments and Analyses for Samples



Notes:

Solid lines indicate the spoon increment (2')
Zero indicates the ground surface
Maximum depth at 30' bgs

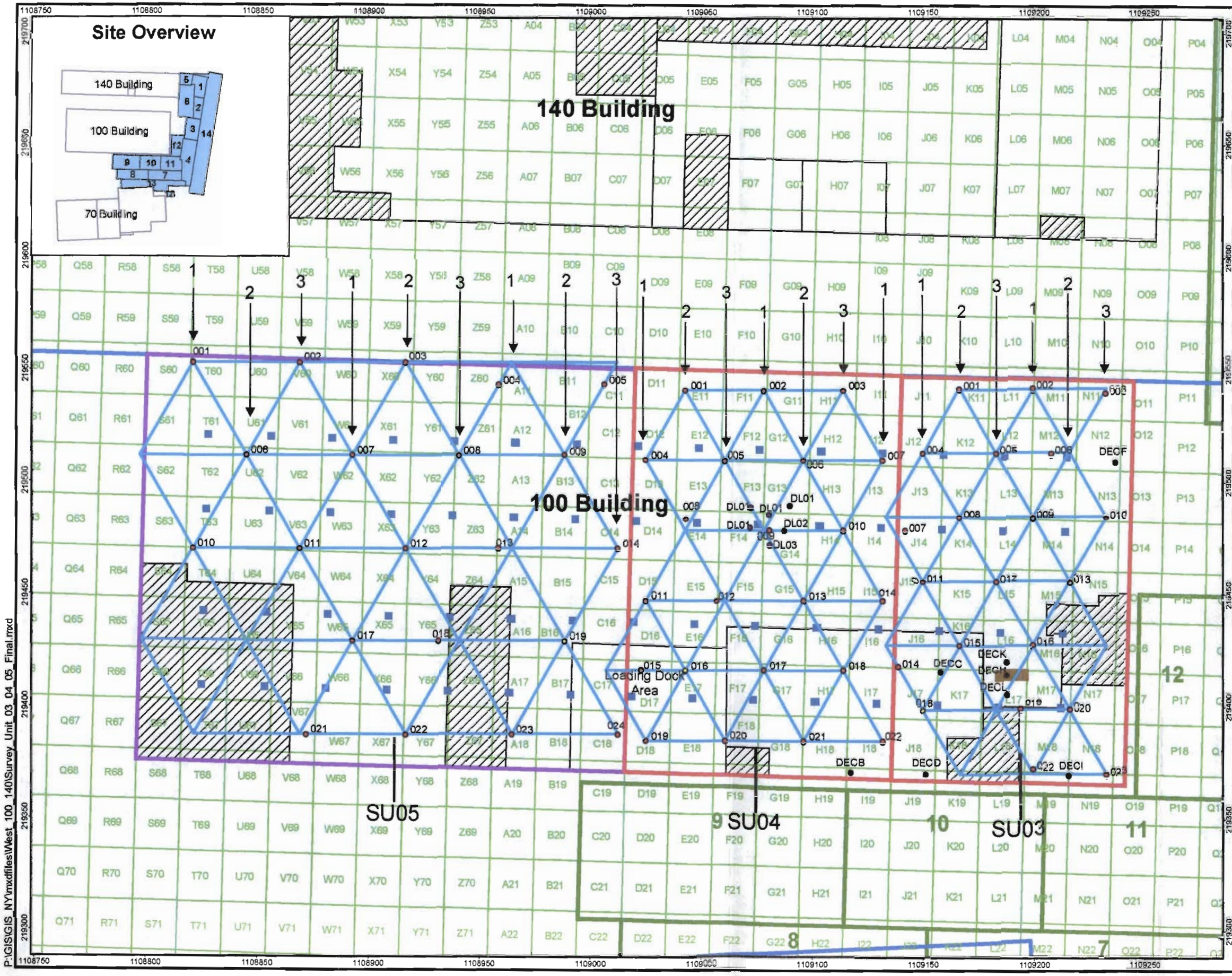
Overview:

Row 1 = SP's (1-3', 11-13', 21-23' and 30-32')
Row 2 = SP's (4-6', 14-16', 24-26' and 30-32')
Row 3 = SP's (7-9', 17-19', 27-29' and 30-32')
All Rows = DL's at 1' increments between SP's

Analyses Intervals:

SU Interval 01:
All SP samples from rows 1, 2 and 3 that were collected between 0 - 10' bgs
SU Interval 02:
All SP samples from rows 1, 2 and 3 that were collected between 11 -20' bgs
SU Interval 03:
All SP samples from rows 1, 2 and 3 that were collected between 21 -30' bgs

Figure 1
SU03, SU04 and SU05 Systematic Sampling Locations



Legend

- Boring Location
- Random Sample Start Point
- Delineation Boring Location
- NYSDEC-Requested Boring Location
- Building Column
- Systematic Sampling Grid
- Building
- Property Line
- Building 100 UST
- Class 1 Survey Unit
- Class 2 Survey Unit
- Interference Area
- Subcell Boundary
- Cell Boundary

Row 1	SP samples at 1-3', 11-13', 21-23'
Row 2	SP samples at 4-6', 14-16', 24-26'
Row 3	SP samples at 7-9',17-19', 27-29'
All Rows	SP sample at 30-32'
All Rows	DL samples at 1' increments between SP samples

See Table 1, Table 6 and Table 7 for summarized sample results.

N

Feet

0 50 100

Projection Information
State Plane Projection
Long Island Zone
North American Datum 1983
Feet

NYSDEC VC00089-1 URS27010-039

GTE OPERATIONS SUPPORT INCORPORATED
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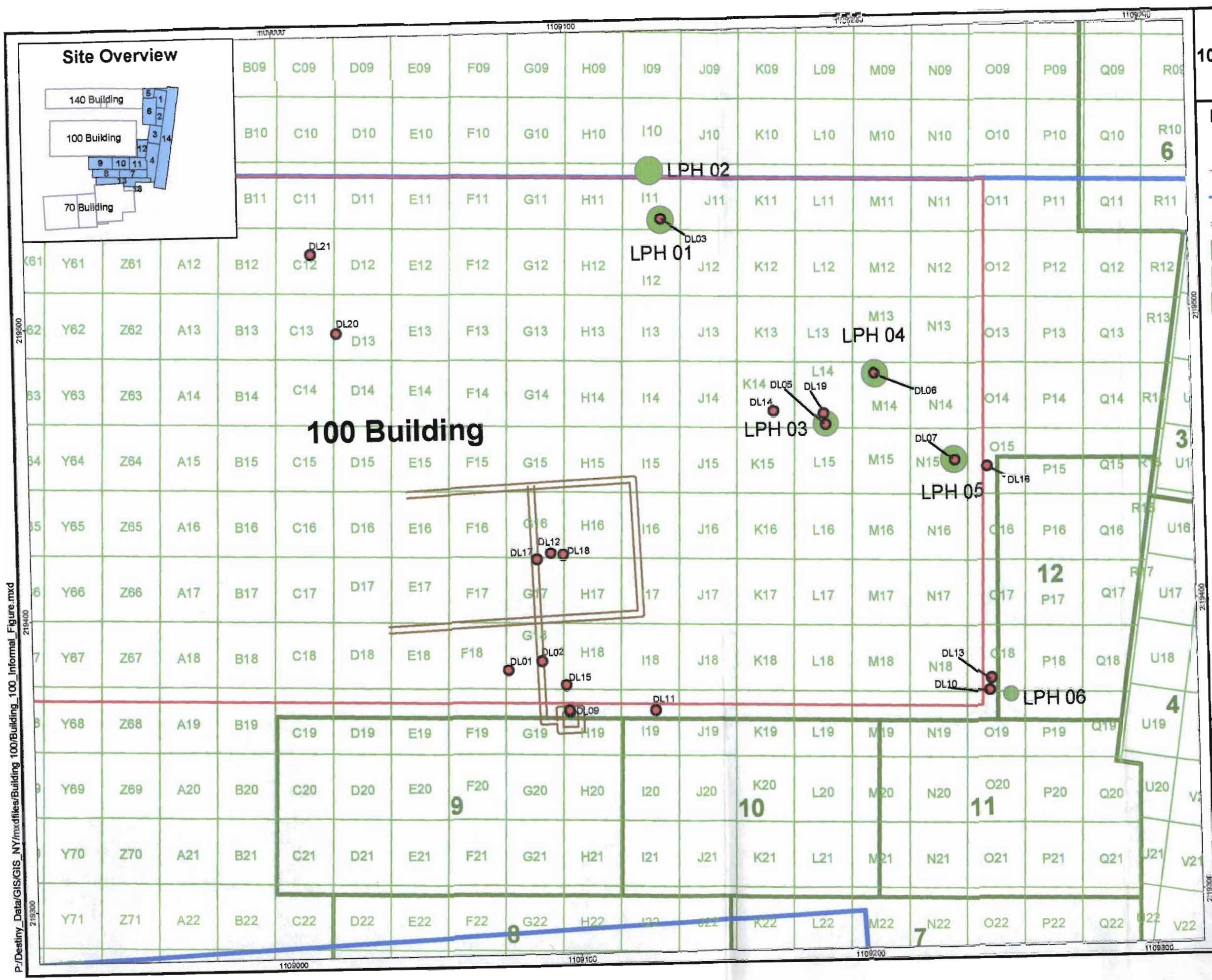

Figure 3
100 Building Focused Sampling
Soil Boring Locations

Legend

- Boring Location
- Building
- Property Line
- Historic Floor Drain
- Historic Leach Pool
- Subcell Boundary
- Cell Boundary

See Table 3 for summarized sample results.

Note: Leach pool data provided by available historic maps.

N

Feet

0 30 60

Projection Information
State Plane Projection
Long Island Zone
North American Datum 1983
Feet

NYSDEC V00089-1 URS27010-039

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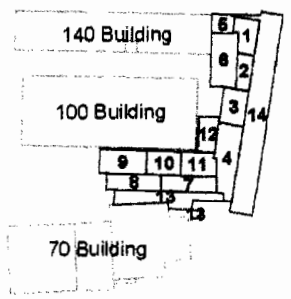
Figure 4
LPH Soil Boring Sample Locations

Site Overview



1109000 1109100 1109200

219500 219400

100 Building

LPH01
LPH02
LPH03
LPH04
LPH05
LPH12
LPH13

9 10 11 12

Legend

- Boring Location
- Building
- Property Line
- Historic Leach Pool
- Subcell Boundary
- Cell Boundaries

See Table 4 for summarized sample results.

Note: Leach pool data provided by available historical maps.

N

Feet

0 25 50

Projection Information
State Plane Projection
Long Island Zone
North American Datum 1983

NYSDEC V00089-1 Feet URS27010-039

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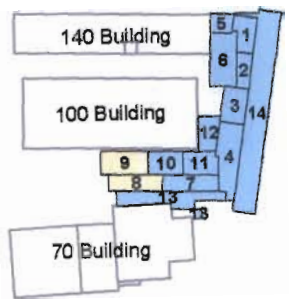
P:/Destiny_Data/GIS/GIS_NY/mxd_files/Leach Pools Not Investigated/Leach_Pools_Building_100.mxd

Figure 5
Cell 9
Soil Boring Locations

Site Overview



100 Building

Legend

- Boring Location
- Building
- Property Line
- Subcell Boundary
- Cell Boundary

See Table 5 for summarized sample results.

N

Feet

0 20 40

Projection Information
State Plane Projection
Long Island Zone
North American Datum 1983
Feet

NYSDEC V00089-1 URS27010-039

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DRI ID: 1006.H6760 September 29, 2005

P:\GIS\GIS_NY\mxdfiles\West_100_14-Survey_Unit_03_04_05_Cell_9_Borings.mxd

Systematic
Subsurface Soil Sampling and Analysis Plan
Beneath the 100 Building

Former Sylvania Electric Products Incorporated Facility
Hicksville, New York
GTE Operations Support Incorporated

November 2004

This Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 100 Building has been reviewed by URS Corporation – New York, and I am in agreement with the methods and procedures to be used in this investigation.

URS Corporation – New York

Robert D. Brathvode, P.E.
Engineer of Record

This Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 100 Building has been reviewed by Professional Radiation Consulting, Inc. (PRCI) in accordance with Envirocon's New York State Department of Labor Radioactive Materials License No. 3095-4330, and I am in agreement with the methods and procedures to be used in this investigation.

P.A. M., CHP for Shane Brightwell

Shane Brightwell, CHP
President, PRCI
RSO, Radioactive Materials License No. 3095-4330

TABLE OF CONTENTS

FIGURES

1.0 INTRODUCTION

This Systematic "Subsurface Soil Sampling and Analysis Plan" (SSSAP) has been prepared to characterize the soils in accessible areas beneath the 100 Building. This SSSAP describes applicable guidance, characterization (i.e., survey, design and sampling protocols), and laboratory analysis for the soils. The results of this SSSAP will enable GTE Operations Support Incorporated (GTEOSI) to determine the extent to which remedial activities may be necessary beneath the 100 Building.

During the last two years, soils containing residual radionuclides of uranium (U) and thorium (Th); were excavated from the Former Sylvania Electric Products Incorporated (Sylvania) property in Hicksville, New York (the Site) and shipped off Site to an approved disposal facility. To date, remediation activities at the Site have focused primarily on the eastern portions of the 100 and 140 Properties. This eastern focus has been based on what is known regarding historical Sylvania facilities and operations, and findings of previous Site investigations. Limited subsurface investigation has occurred under the 100 Building.

The various sections of this SSSAP present the steps to be implemented to characterize the subsurface soils in the areas below the 100 Building. The characterization will include not only radionuclides, but also certain volatile organic compounds (VOCs) [(tetrachloroethene (PCE) and trichloroethene (TCE)] and nickel (Ni) (collectively, "target analytes"). Modifications to the steps will be permitted when field conditions or sample results indicate the modifications would better support the intent and objective of this plan as stated in Section 2.0 below. All modifications to steps in this SSSAP shall be made with the prior concurrence of the Radiation Safety Officer (or his designated alternate) and the prior approval of the Project Coordinator.

2.0 OBJECTIVE

The objective of this SSSAP is the characterization of soils in specified areas as shown in Figure 1. For radiological characterization purposes, these areas are referred to as "survey units" (SUs) as defined in NUREG 1575, *Multi-Agency Radiation Survey and Site Investigation Manual* (MARSSIM). The 100 Building comprises approximately 80,100 (ft^2) and is the subject of this Plan.

Note: The area designated as SU03 is the approximate eastern one-quarter of the 100 Building. Within SU03, portions of the southeastern and southern areas (tool storage and office areas) of the survey unit are not readily accessible for characterization (i.e., building alterations would be required prior to employing the prescribed sampling equipment). The area designated as SU04 lies to the west of SU03, and comprises slightly more than one-quarter of the 100 Building area. Only a small portion of the survey unit adjacent to the south wall of the building (utility room) is not readily accessible for characterization. The third survey unit is designated SU05 and includes approximately the western one-half of Building 100. Two areas in the southern and the southwestern corner (office areas) of this survey unit are not readily accessible for characterization (Figure 1).

3.0 APPLICABLE GUIDANCE

This SSSAP was prepared in accordance with Voluntary Cleanup Agreement, Site V-00089-1, Index W1-0903-01-12, between New York State Department of Environmental Conservation (NYSDEC) and GTEOSI. Field procedures and analytical methods identified in the Site's approved *Comprehensive Soil Remediation Work Plan, (Revision 5: June 2003)* (Work Plan) have been incorporated in this SSSAP

where appropriate. Guidance specific to radiological and chemical characterization is described in their associated sections, as applicable.

4.0 CHARACTERIZATION

The soils within SU03 and SU04 are anticipated to contain some residual target analytes based on investigations conducted in 2004. SU05 is expected to exhibit radioactivity at natural background concentrations or residual radioactivity below the cleanup levels. (Note: the target cleanup levels are defined in the Work Plan). To ensure adequate characterization of the SUs shown in Figure 1, the following sources were reviewed during preparation of this SSSAP:

- **Historic maps, aerial photos, and historic documents** – These sources indicate that buildings in which uranium fuel element fabrication occurred during the 1950s and 1960s covered significant portions of SU03 and SU04.

- **Prior preliminary biased investigation performed beneath the 100 Building** – Preliminary biased investigation conducted in SU03 indicates the presence of target analytes above cleanup levels.

- **Excavation in adjacent cells** – Field surveys and sampling south of Building 100 associated with Cell 9 and east of Building 100 associated with Cell 12 indicates the potential for target analytes above the cleanup levels in SU03 and SU04.

The radiological characterization is designed using guidance provided in MARSSIM as discussed below (Section 4.1). Concurrently, VOCs and Ni soil residuals will be characterized as described in Section 4.2.

4.1 RADIOLOGICAL

The following sections describe the radiological guidance and sampling parameters to be used to execute this SSSAP. This SSSAP has been developed using a combination of applicable MARSSIM guidance, historic documents, and knowledge of Site subsurface conditions gained during investigations and remediation.

4.1.1 Applicable Radiological Guidance

The investigation of soils to determine the presence (if any), concentrations, extent, and boundaries of radionuclides is termed a *characterization* survey. The principles for a characterization survey described in Chapter 5 of MARSSIM have been considered in developing this SSSAP. Specific methods recommended in MARSSIM for subsurface soil sampling have also been incorporated in this SSSAP.

4.1.2 Survey Unit

Classification

The SUs were designated as MARSSIM Class 1 for SU03 and SU04 since they have a potential to contain soils with target analytes at concentrations that exceed the cleanup levels. SU05 was designated as MARSSIM Class 2 since target analytes in soil are not expected to exceed the cleanup levels. A systematic triangular sampling pattern will be used to provide uniform lateral coverage of these SUs. This triangular grid based system, as prescribed by MARSSIM for Class 1 and Class 2 SUs, is useful as it accommodates both the radiological and chemical sampling.

Layout

SU03 is approximately 1,755 square meters (m^2) or 18,894 ft^2. Of this total area, 1,559 m^2 (16,775 ft^2) are readily accessible for characterization. SU04 is approximately 2,011 m^2 or 21,655 ft^2. Of this total area, 1,988 m^2 (21,408 ft^2) are readily accessible for characterization. SU05 is approximately 3,673 m^2 (39,539 ft^2). Of this total area, 2,945 m^2 (31,695 ft^2) are readily accessible for characterization. As indicated in Section 4.1.3, a triangular grid system will be used and nomenclature will be adopted from the Site grid system described below.

The Site is on a northing/easting planar grid coordinate system. The Site grid pattern was developed to accommodate excavation cells, and each cell is divided into subcells. Each subcell has a north-south length of 6.7 meters (m) or 22 feet (ft) and an east-west width of 6.1 m (20 ft). The subcells are uniquely identified by letter designations for north-south columns and number designations for east-west rows. This grid coordinate system will be used for defining the sample nomenclature within the SUs.

4.1.3 Sample Locations

Number of Horizontal Sample Locations

MARSSIM bases the number of samples (N) in a SU on how close the average expected concentration in the SU is to the cleanup level, how much variation there is in the observed or expected concentrations, and the sensitivity of equipment scanning capabilities with respect to the cleanup levels. For SU03 and SU04, the minimum number of samples to be collected in each SU is 17. Although MARSSIM indicates only 17 samples are sufficient, 20 sample locations in each SU were selected to provide lateral coverage and to ensure that the minimum number of 17 samples can be collected in the event field conditions do not allow collection of soil samples at all 20 locations. For SU05, the minimum number of samples is 13. Although MARSSIM indicates only 13 samples are sufficient, 16 sample locations were selected to provide lateral coverage and to ensure that the minimum number of 13 samples can be collected in the event field conditions do not allow collection of soil samples at all 16 locations. If sample locations fall outside the SU boundary due to the grid orientation, they may be relocated inside the grid using the criteria described below.

Sample Start Point

MARSSIM suggests establishing a systematic sampling pattern using a random start point. A random number generator was used to select planar coordinates within the footprint of each of the SU boundaries. The associated systematic triangular sample pattern, as described below, was established in each SU by placing one of the sample locations at the start point coordinates.

Horizontal Sample Locations

For each SU, once N, the SU size, the grid system pattern, and the start point were established, the sample locations were then selected and mapped. The calculated maximum east-west distance between sampling locations (L_N) and the north-south distance between sampling rows (L'_N) are listed below.

Survey Unit	N (Samples)	L_N (meters)	L'_N (meters)
SU03	20	10.07	8.72
SU04	20	10.71	9.28
SU05	16	14.58	12.63

Some of the sample locations may have to be modified to avoid obstructions encountered in the field (i.e., utilities). Any sample location that must be relocated up to one-third of the diagonal distance between planned sample locations [≤3.4 m (11.2 ft) in SU03, ≤3.6 m (11.7 ft) in SU04, and ≤4.9 m (16.1 ft) in SU05] will be relocated accordingly. Any sample location that must be relocated a distance greater than the applicable distance specified above will be either eliminated or randomly relocated using the method for generating random coordinates as described previously.

If a sample location falls just outside of the SU boundary, the sample may be evaluated for relocation to within the SU boundary, depending on the required distance and obstructions. The result may be that the SU has more than the minimum number of sampling locations in order to provide as uniform coverage as practical. The addition of sample points does not reduce the effectiveness of the methods described in MARSSIM.

Vertical Sampling Depth

Vertical sampling and excavation depths on Site have been measured in feet below ground surface (bgs); therefore, vertical units are expressed here in both meters and feet (in parentheses). Based on the results of subsurface soil investigations and excavations, most impacts occur from the surface down to about 7.3 m (24 ft) bgs, with infrequent impacts identified greater than 7.3 m (24 ft) bgs. Impacts below 7.3 m (24 ft) bgs were usually identified based on shallow indicators. Given this history, a target maximum sampling depth of approximately 9 m (30 ft) bgs has been established to provide an additional 2-m (6-ft) buffer and to accommodate the pattern of the vertical sampling intervals as described below. If exceedences of the cleanup objectives are encountered at 9 m (30 ft) bgs, additional sampling will continue to define the vertical extent of impacts.

Vertical Sample Intervals

Based on the results of excavation and subsurface soil investigations performed during remediation on Site, impacts may be present in relatively thin soil veins. Specifically, concentrations may increase from not detected to greater than the cleanup levels in the next lower 0.3-m (1-ft) interval. Within the same boring, the concentrations may then decrease rapidly over the next 0.3- or 0.6-m (1- or 2-ft) intervals. Note that the measured depths of the soil layers with elevated radiological impacts may vary due to both depositional nature of the impacts and the assumption that the surface is a uniform elevation (measured bgs).

Based on the above information, the following subsurface soil sampling parameters were established.

- Characterization/Final Verification samples will be collected at 3-m (10-ft) intervals. These samples will be collected, documented, labeled, and analyzed by on-Site and off-Site analytical methods as Sample Point (SP) samples. SP samples are treated the same as Confirmation/Verification (CF/VF) samples as described in the Work Plan.

- The SP sample pattern was established so that each sample at the corner of an equilateral triangle is vertically staggered by 1 m (3.3 ft). For example:

    1. The first triangle corner (#1) sampling location will have SP samples collected from the top 1-ft segment of the 1-, 4-, and 7-m (1-, 11-, and 21-ft) intervals;

    2. The second triangle corner (#2) sampling location will have SP samples collected from the top 1-ft segment of the 2-, 5-, and 8-m (4-, 14-, and 24-ft) intervals; and

3. The third triangle corner (#3) sampling location will have SP samples collected from the top 1-ft segment of the 3-, 6-, and 9-m (7-, 17-, and 27-ft) intervals.

The staggered vertical sample pattern result for a single set of three adjacent sample locations resembles a triangular "staircase" or helical pattern. This pattern works as follows*:

a) The sample locations in the westernmost north-south oriented column are all sampled at the intervals outlined in #1 above;

b) The sample locations in the second north-south oriented column to the east are all sampled at intervals outlined in #2 above;

c) The sample locations in the third north-south oriented column to the east are all sampled at the intervals outlined in #3 above;

d) The sample locations in the fourth north-south oriented column to the east are all sampled at the intervals outlined in #1 above;

e) The sample locations in the fifth north-south oriented column to the east are all sampled at the intervals outlined in #2 above; and

f) The sample locations in the sixth north-south oriented column to the east are all sampled at the intervals outlined in #3 above.

* The pattern repeats after every third column.

- The 0.3-m (1-ft) interval samples between the SP sample intervals will be collected and analyzed on Site as Delineation (DL) Samples. This will provide additional assurance that any relatively thin veins of impacts present between the SP interval samples will be identified.

4.2 CHEMICAL

As indicated in the introduction of this SSSAP, the potential for residual VOC and Ni impacts in the SUs will be evaluated concurrently with the radiological impacts. The triangular grid system established under MARSSIM and the vertical interval sampling were evaluated for this purpose and accepted. This system provides both vertical and lateral coverage to adequately evaluate the potential for chemical impacts. If elevated concentrations of VOCs and/or Ni are detected, the soils around the location will be considered for additional investigation or remedial action, as appropriate.

4.3 MATERIALS AND METHODS

The following narrative describes the sample collection, analysis, and evaluation methodology to be used to execute this SSSAP.

4.3.1 Soil Sampling Equipment

A hollow-stem auger drill rig with split-spoon sampling capabilities will be used to collect soil samples. The split spoon [0.6 m (2 ft) in length and 0.08 m (3 inches) in diameter] will be advanced in 0.6-m (2-ft) intervals. Two, 0.3-m (1-ft) interval samples will be collected per split-spoon.

4.3.2 Sample Field Screening and Preparation

Each sample will be initially field-screened with a 3-inch sodium iodide (NaI) gamma detector to evaluate potential residual radiological impacts and a photoionization detector (PID) to evaluate the presence of VOCs. In addition, an x-ray fluorescence (XRF) spectrometer will be used on Site to screen samples for Ni. Sample descriptions and field observations will be documented on the boring logs.

4.3.3 Sample Collection

A minimum of two samples will be collected per split spoon barring loss or incomplete recovery. These samples will be designated as either DL or SP, as applicable. DL samples will be collected at the intervals between SP samples from the surface down to the bottom sampling depth of approximately 9 m (30 ft) bgs.

Samples collected for radiological analysis will be placed in 1-liter Marinelli containers. DL samples will be used for radiological screening and analyzed on Site using gamma spectroscopy. The SP samples will be analyzed for radionuclides on Site and off Site, consistent with the Work Plan criteria for CF/VF sampling.

Samples collected for chemical analysis will be placed in pre-preserved methanol vials and non-preserved 40-ml vials. DL samples are not analyzed for VOCs or Ni unless field screening/observations support collection of a chemical sample. DL samples with PID screening readings of 50 parts per million (ppm) or higher will be collected for VOC analysis by Severn Trent Laboratories (STL), Earth City, Missouri. The SP samples will be collected for analysis of VOCs both on Site and off Site, consistent with the Work Plan criteria for CF/VF sampling.

A geologist will describe the samples in general accordance with the Unified Soil Classification System (USCS). Sample descriptions will include soil type, color, moisture, and other visual observations and field readings. This information will be documented on soil boring logs.

All samples will be logged into the Site sample tracking and barcode system.

4.3.4 Sample Analysis

Each DL sample will be analyzed for 10 minutes by on-Site gamma spectroscopy (providing a nominal detection limit of approximately 0.014 pCi/g for Th-232 and 3.6 pCi/g for U-238, both of which are far below the Site cleanup levels) to quantify the concentrations of target radionuclides of U and Th. Each SP sample will be analyzed for 30 minutes by on-Site gamma spectroscopy (providing a nominal detection limit of approximately 0.008 pCi/g for Th-232 and 2.0 pCi/g for U-238, both of which are far below the Site cleanup levels) as well as by alpha spectroscopy at STL for isotopic U and Th.

If DL samples are collected for chemical analyses, they may be screened using XRF for Ni and analyzed for VOCs on Site by Stone Environmental. Each SP sample will be analyzed for VOCs on Site by Stone Environmental as well as by STL for VOCs and Ni. SP samples will also be analyzed for beryllium (Be).

5.0 SAMPLING/ANALYSIS PROCEDURE

The following is the step-by-step procedure for sample collection and subsequent analysis.

1. The applicable Chemical/Radiological Work Permit (C/RWP) and Activity Hazards Analysis (AHA) will be in place prior to commencement of sampling.

2. The field crew will be briefed on this procedure prior to commencement of sampling.

3. Each sampling location will be located and surveyed in the field using either a laser positioning system (LPS) or global positioning system (GPS) surveying system.

4. Each sample location will be investigated for utilities and obstructions prior to saw cutting any pavement or commencement of sampling. If a sample location is in an area where utilities or obstructions have been identified, then the sample location shall be adjusted to a safe, practical location as close to the proposed location as possible, but no more distant than 3.4 m (11.2 ft) in SU03, 3.6 m (11.7 ft) in SU04, or 4.9 m (16.1 ft) in SU05. Any sample location that cannot be relocated within these criteria will be eliminated or randomly relocated per Section 4.1.3.

5. The split-spoon sampler will be advanced to the predetermined maximum depth range of approximately 9 m (30 ft) bgs, in 0.6-m (2-ft) intervals, collecting two, 0.3-m (1-ft) samples per sampling cycle.

6. Radiological field screening of samples will be conducted on each sample using a NaI gamma detector.

7. Chemical field screening of samples for VOCs will be conducted on each sample using a PID. An XRF spectrometer will be used for on-Site Ni screening of every other sample beginning with the second sample in the boring, continuing with the fourth sample, sixth sample, etc. Soil samples (~100 g) for Ni screening by XRF will be collected in Ziploc® bags if the soils are relatively dry and in glass jars if the moisture content is approximately 20% or higher. The samples will be delivered to Stone Environmental for either direct screening by XRF, or for drying in an oven, and then screening by XRF. For those DL quality control (QC) samples to be submitted to STL, the soils will be transferred from the Ziploc® bags to 40-ml glass vials in the sample preparation area. For QC purposes, every tenth sample will be screened by XRF and then submitted to STL for duplicate analysis. SP samples will be analyzed for Be.

8. A geologist will log the borings and record observations and measurements consistent with the USCS nomenclature and procedures, noting indications of soil impacts by chemicals and other potential contributors to contamination.

9. DL screening samples will be collected at the intervals between SP samples prescribed in Section 4.1.3. Radiological DL samples will be analyzed by on-Site gamma spectroscopy for a 10-minute count time. If field conditions warrant and chemical DL samples are collected, they will be analyzed for VOCs on Site by Stone Environmental Chemical DL samples with PID readings of 50 ppm or greater will be submitted for analysis to STL.

10. SP samples will be collected at the intervals prescribed in Section 4.1.3 and will be treated in the same manner as CF/VF samples. Radiological SP samples will be analyzed by on-Site gamma spectroscopy for a 30-minute count time as well as off-Site isotopic analyses by STL. Chemical SP samples will be collected and placed in vials with methanol for on-Site analysis by

Stone Environmental and in 40-ml glass vials for submission to STL for analysis of VOCs, Ni, and Be.

11. If oily soils are encountered, they will be collected while sampling as either DL or SP samples. Pursuant to the NYSDEC request, these soils will be submitted to STL for analysis of polychlorinated biphenyls (PCBs) and semi-volatile organic compounds (SVOCs) base/neutral fraction. The soils collected for PCBs and SVOC analyses will be placed in 250-ml glass jars; a minimum of 100 g is needed to accommodate both analyses. The containers for the other analyses will follow the instructions provided above. (If sufficient sample volume of oily soils is not available, the chemical analyses for VOCs, SVOCs, PCBs, Ni and Be will take precedence over samples for radiological analyses.

12. After the completion of sampling from a given location, the borehole will be backfilled with clean cuttings and/or clean on-Site backfill material to within 0.1 to 0.15 m (4 to 6 inches) of the top of the borehole. The remaining 0.1 to 0.15 m (4 to 6 inches) will be filled with asphalt or other applicable surfacing material.

13. Decontamination of sampling equipment will be performed in accordance with SOP-RAD-011, *Equipment Decontamination* and in accordance with the chemical decontamination procedures.

6.0 TARGET CONCENTRATIONS

The soil concentrations will be compared to the Site cleanup levels as defined in the Work Plan.

7.0 ASSESSMENT

Currently, the SUs are beneath Building 100. As a result, performing surface radiation scans as surveys are not practical to detect the presence of surface or subsurface radiological impacts in excess of cleanup criteria. MARSSIM allows for modifications to the survey design to address subsurface soils. However, in order to classify SUs as non-impacted, or to facilitate remediation planning, subsurface characterization is required. In addition, the data quality objectives process also allows that, based on the data needs for a survey, the decision can be made that sampling and analysis are necessary.

7.1 RADIOLOGICAL

7.1.1 Survey Unit Assessment

Each SU will be characterized/verified vertically at 3-m (10-ft) staggered intervals. This approach for subsurface soils is not directly addressed in MARSSIM, which provides characterization and final verification guidance primarily on surface soils. Therefore, each 3-m (10-ft) depth interval will be evaluated independently as if that interval were representative of an undulating soil surface, using the MARSSIM approach to surface soils. The SP samples within each 3-m (10-ft) depth interval will be treated as if they were collected from a continuous varying surface that existed at their corresponding depths [i.e., all samples in the 0 to 3-m (0 to 10-ft) interval will be evaluated independently using a MARSSIM statistical test and all samples in the 3- to 6-m (10- to 20-ft) interval will be evaluated independently using the MARSSIM statistical test]. This approach will be used for each of the 3-m (10-ft) intervals.

7.1.2 Decision Analysis

The radiological analytical results will be evaluated using the default null hypothesis recommended in MARSSIM, which states: "The residual radioactivity in the survey unit exceeds the release criterion." The MARSSIM "Sign Test" (assuming no contribution from background radionuclides) will be used to reject the null hypothesis. When the null hypothesis is rejected, then the SU will pass and qualify for release. If the null hypothesis cannot be rejected, further investigation or remedial action may be necessary.

As stated earlier, each 3-m (10-ft) sampling interval data set will be evaluated independently as a soil (undulating planar) surface sample set generated from all SP samples within that 3-m (10-ft) interval. Therefore, there will be at least three independent evaluations of the surface and subsurface soils within each SU.

7.2 CHEMICAL

The chemical analytical results will be evaluated independently and compared to the Site cleanup levels specified in the Work Plan, NYSDEC Technical and Administrative Guidance Memorandum (TAGM) #4060, or Site background concentrations. Exceedences will be considered for additional investigation or remedial action, as appropriate.

8.0 SCHEDULE

The work described in this SSSAP is scheduled to start in December 2004.

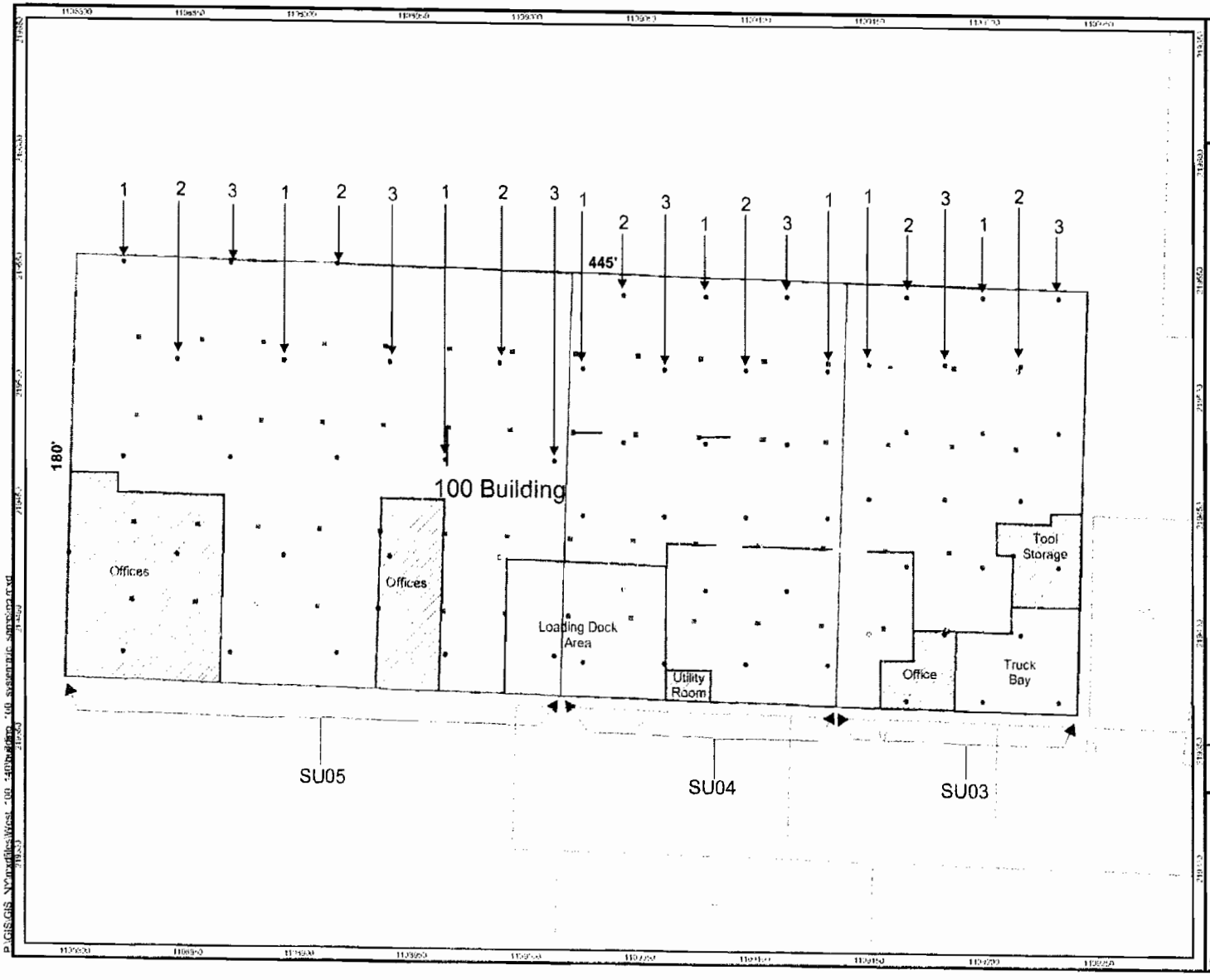


Figure 1
Survey Units - Beneath the 100 Building

Legend

- Random Sample Starting Points
- Sample Locations
- Sample Grid Layout
- Structure Columns Building 100
- Class 1 Survey Unit
- Class 2 Survey Unit
- Not Readily Accessible to Drilling Equipment
- Cell Boundaries

Cell Number

1 1-Meter Vertical Sampling Start Interval
2 2-Meter Vertical Sampling Start Interval
3 3-Meter Vertical Sampling Start Interval

Feet
0 50 100

Projection Information

GTE OPERATIONS SUPPORT INCORPORATED
HICKSVILLE, NEW YORK

ENVIROCON

DESTINY

DRI ID 1006.H6246 November 03, 2004

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
Building 40 - SUNY, Stony Brook, New York 11790-2356
Phone: (631) 444-0240 • FAX: (631) 444-0248
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

December 20, 2004

Jean Agostinelli
Vice President - Controller
GTE Operations Support Inc.
600 Hidden Ridge Drive (HQE03E75)
Irving, TX 75038

Re: Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 140 Building and Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 100 Building
Former Sylvania Electric Products Facility, #V00089-1

Dear Ms. Agostinelli:

The Department offers the following comments on the subject documents:

1) 100 Building - Vertical Sampling Depth

Please clarify ground surface reference point particularly as it relates to the loading dock area of the 100 property. The loading dock floor is approximately four to five feet below the 100 building's floor. The Department wants to ensure that the six foot buffer built into your sampling plan is not lost.

2) Soil Gas Sampling

Based on a preliminary analysis of the groundwater sampling results, there may still be undiscovered source areas for chlorinated solvents in the western and central portions of the site. As another tool in identifying the location of these volatile organic compounds, the Department requests that a soil gas sample be collected from each borehole after the proposed shallow samples have been removed. Please propose a depth at which to collect these soil gas samples which is somewhere between three feet and ten feet below the building slab. The samples could be analyzed by a PID in a head space sample or by your on-site laboratory, whichever you prefer.

3) Additional Investigation Borings Between Survey Units SU05 and SU04 and Between Survey Units SU04 and SU05 for the 100 Building

There is a space between survey units SU04 and SU05 and between SU03 and SU04. It is not necessary to alter the survey units. However, I am requesting five additional investigation

borings at the locations shown in the attached figure to give better coverage.

The space between SU04 and SU05 is by western portion of the chemical processing area for the former AEC building on the south portion of the gap and by an historical metal storage tank and stucco building on the north portion of the gap. Groundwater data suggests the presence of potential nickel and VOC source areas near this gap. The nickel and radiological contamination found in cell 9 probably extends to under the 100 building.

The space between SU03 and SU04 is just north of the process tank found in the northwest corner of cell 10 and is near the eastern wall of the former AEC building. The piping leading from the 100 building to the former reservoir in the rear of the 100 property apparently originated near the northeast corner of the AEC building. Based on an old figure, there was a pump in the cellar of this portion of the building which probably was used to pump water to the reservoir. This area is of interest due to contamination discovered in the reservoir. Additionally, the source of the radiological contamination in MW-2, which is downgradient of this area, has apparently not been found yet.

It is for the above reasons that I am requesting the additional investigation borings.

4) Historical Leaching Pool by the 140 Building Loading Dock

There is one historical leaching reportedly located inside the 140 building, just west of the loading dock, that was not investigated in the recent leaching pool investigation. It is just west of the former Building 2, the earlier commercial manufacturing building, and just east of a two-story frame building which I believe to be the "farm house". The farm house may have been used historically for machining operations. In SU07 for the 140 building, the survey point in the southeast corner of this survey unit comes very near the location of this former leaching pool. Please move this survey point slightly so that is located over the expected center of this pool. This pool must be investigated due to the high concentrations of PCE that were detected in nearby LPH21. Since the sediment sample in LPH21 detected percent concentrations, degreasing operations were most likely located historically somewhere near this pool. The leaching pool apparently is within the area identified as the "Lunch Room" on your figure. Please let me know if this presents a difficulty in investigating this pool.

If high soil gas readings are detected in any of the grid samples near the "Safety Cage" by the western portion of Building 2, additional borings will be requested around this area later. The western portion of that building would be the most likely source of the solvents that were found in LPH21.

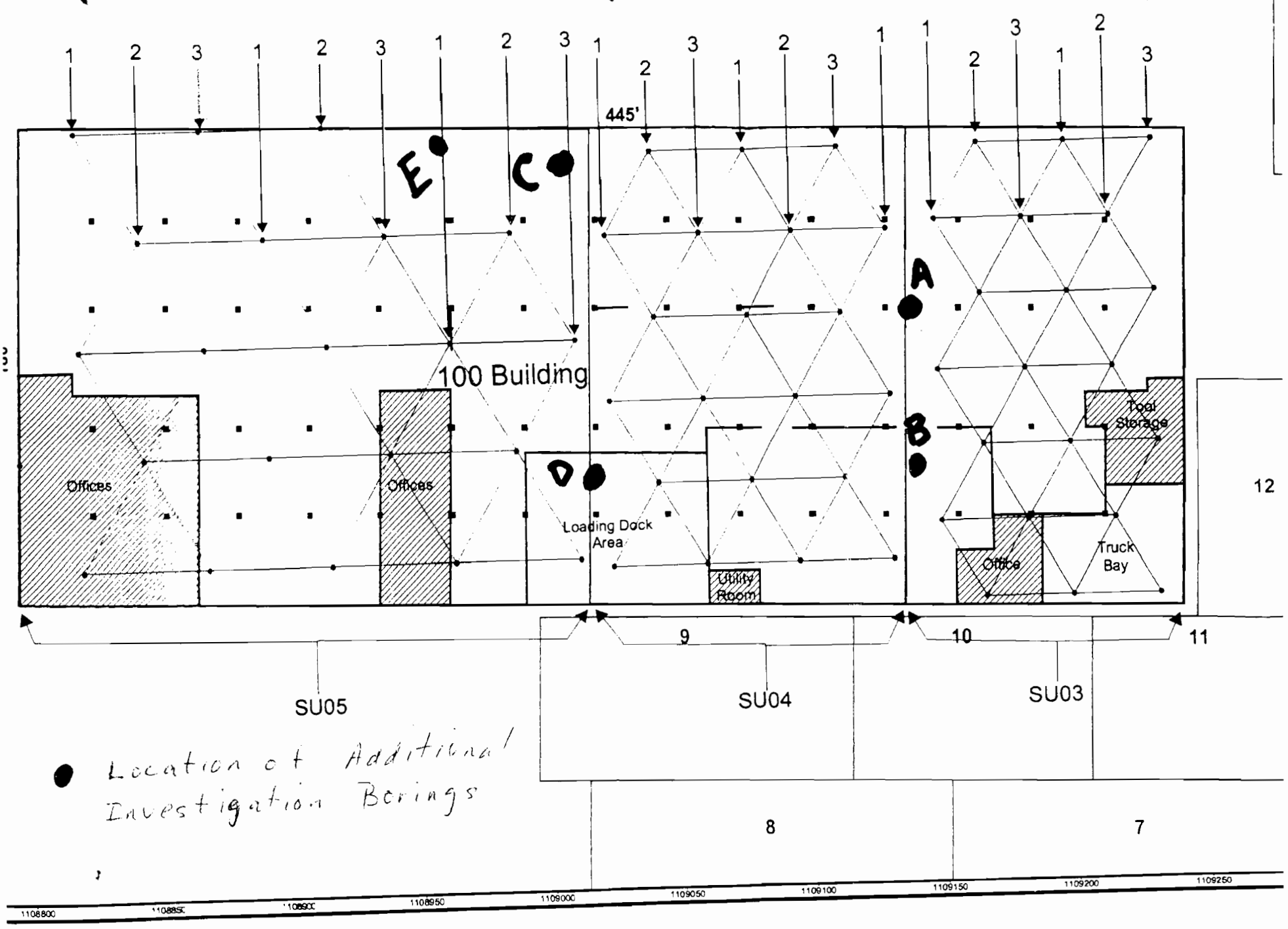
Please address these comments in a revised work plan to be submitted within 30 days of your receipt of this letter. Please do not hesitate to call me at (631) 444-0244 if you have any questions or disagree with these comments.

Sincerely,

Robert R. Stewart
Environmental Engineer I

Enclosure

cc: W. Parish
K. Carpenter
J. Riggi
J. Nealon, NYSDOH


445'
100 Building
Offices
Offices
Loading Dock Area
Utility Room
Office
Truck Bay
Tool Storage
A
B
C
D
E
9
10
11
12
SU05
SU04
SU03
8
7
Location of Additional Investigation Borings
1108800
1108850
1108900
1108950
1109000
1109050
1109100
1109150
1109200
1109250

verizon

GTE Operations Support Incorporated
600 Hidden Ridge Drive (HQE03E75)
Irving, Texas 75038
(972) 718-4806

January 20, 2005

Mr. Robert Stewart
Division of Environmental Remediation
New York State Department of Environmental Conservation
SUNY Campus Loop Bldg. 40
Stony Brook, New York 11790-2356

Re: **Response to NYSDEC Comments of December 20, 2004 on the**
Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 140 Building and
Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 100 Building
Former Sylvania Electric Products Facility, #V00089-1

Dear Mr. Stewart:

Thank you for your December 20, 2004 response to our November 17, 2004 submittal of the referenced Work Plans. To address your comments, the following responses have been prepared for your consideration. The comment responses are presented below, in full or in part, in the order that they appeared in your letter.

Comment 1: 100 Building - Vertical Sampling Depth

Please clarify ground surface reference point particularly as it relates to the loading dock area of the 100 property. The loading dock floor is approximately four to five feet below the 100 building's floor. The Department wants to ensure that the six foot buffer built into your sampling plan is not lost.

Response: *We are standardizing these borings to a baseline elevation on Site, therefore we will be able to maintain a consistent sampling depth interval applicable to the survey units. Based on this approach, the 6-foot buffer described in the* ***Vertical Sampling Depth*** *section of both plans is preserved.*

Comment 2: Soil Gas Sampling

Based on a preliminary analysis of the groundwater sampling results, there may still be undiscovered source areas for chlorinated solvents in the western and central portions of the site. As another tool in identifying the location of these volatile organic compounds, the Department requests that a soil gas sample be collected from each borehole after the proposed shallow samples have been removed.

Please propose a depth at which to collect these soil gas samples which is somewhere between three feet and ten feet below the building slab. The samples could be analyzed by a PID in a head space sample or by your on-site laboratory, whichever you prefer.

Response: *As part of the standard operating procedures for sample recovery, every soil sample that is recovered is screened for soil gases using a PID as the sampler is opened. If a sample shows indications of volatile organic compounds above 10 parts per million, an additional soil sample is sent to the on-Site laboratory for analysis. The depths of sample recovery are defined within the plans and all sample locations in the Systematic Subsurface Soil Sampling protocol have at least one sample recovered from the 3- to 10-foot depth interval as requested.*

After the analytical data is available, we can evaluate the need for additional information with the NYSDEC.

Comment 3: Additional Investigation Borings Between Survey Units SU03 and SU04 and Between Survey Units SU04 and SU05 for the 100 Building

There is a space between survey units SU04 and SU05 and between SU03 and SU04. It is not necessary to alter the survey units. However, I am requesting five additional investigation borings at the locations shown in the attached figure to give better coverage.

The space between SU04 and SU05 is by western portion of the chemical processing area for the former AEC building on the south portion of the gap and by an historical metal storage tank and stucco building on the north portion of the gap. Groundwater data suggests the presence of potential nickel and VOC source areas near this gap. The nickel and radiological contamination found in cell 9 probably extends to under the 100 building.

The space between SU03 and SU04 is just north of the process tank found in the northwest corner of cell 10 and is near the eastern wall of the former AEC building. The piping leading from the 100 building to the former reservoir in the rear of the 100 property apparently originated near the northeast corner of the AEC building. Based on an old figure, there was a pump in the cellar of this portion of the building which probably was used to pump water to the reservoir. This area is of interest due to contamination discovered in the reservoir. Additionally, the source of the radiological contamination in MW-2, which is downgradient of this area, has apparently not been found yet.

It is for the above reasons that I am requesting the additional investigation borings.

Response: *We will add Borings A and B to SU03. Boring D will be added as a biased sample location in SU04 since it will not fall into the Systematic Sampling Protocol. Borings C and E will be added to SU05. The borings will be renamed to comply with the existing boring nomenclature used for the survey units, assigned to appropriate sampling interval columns, and sampled in accordance with the Systematic Sampling Protocol.*

Comment 4: Historical Leaching Pool by the 140 Building Loading Dock

There is one historical leaching reportedly located inside the 140 building, just west of the loading dock, that was not investigated in the recent leaching pool investigation. It is just west of the former Building 2, the earlier commercial manufacturing building, and just east of a two-story frame building which I believe to be the "farm house". The farm house may have been used historically for machining operations. In SU07 for the 140 building, the survey point in the southeast corner of this survey unit comes very near the location of this former leaching pool. Please move this survey point slightly so that is located over the expected center of this pool. This pool must be investigated due to the high concentrations of PCE that were detected in nearby LPH21. Since the sediment sample in LPH21 detected percent concentrations, degreasing operations were most likely located historically somewhere near this pool. The leaching pool apparently is within the area identified as the "Lunch Room" on your figure. Please let me know if this presents a difficulty in investigating this pool.

If high soil gas readings are detected in any of the grid samples near the "Safety Cage" by the western portion of Building 2, additional borings will be requested around this area later. The western portion of that building would be the most likely source of the solvents that were found in LPH21.

Response: *This historic leaching pool, designated as LPH34, will be added and evaluated under the LPH Sampling Protocol. Reasonable attempts will be made to locate LPH34 and sample as many locations as possible using the LPH Sampling Protocol; however, several obstructions are present in this area (lunch room, loading dock, safety cage, equipment, etc.) that may impede access. Please note that we do not have any information regarding the historical use of this LPH.*

This letter will be attached as an addendum to the referenced work plans. We plan to begin work described in the subject work plans in mid January.

If you have any questions or require additional information, please do not hesitate to contact me. I can be reached at (214) 724-2506 or via facsimile (972) 719-0065.

Sincerely,

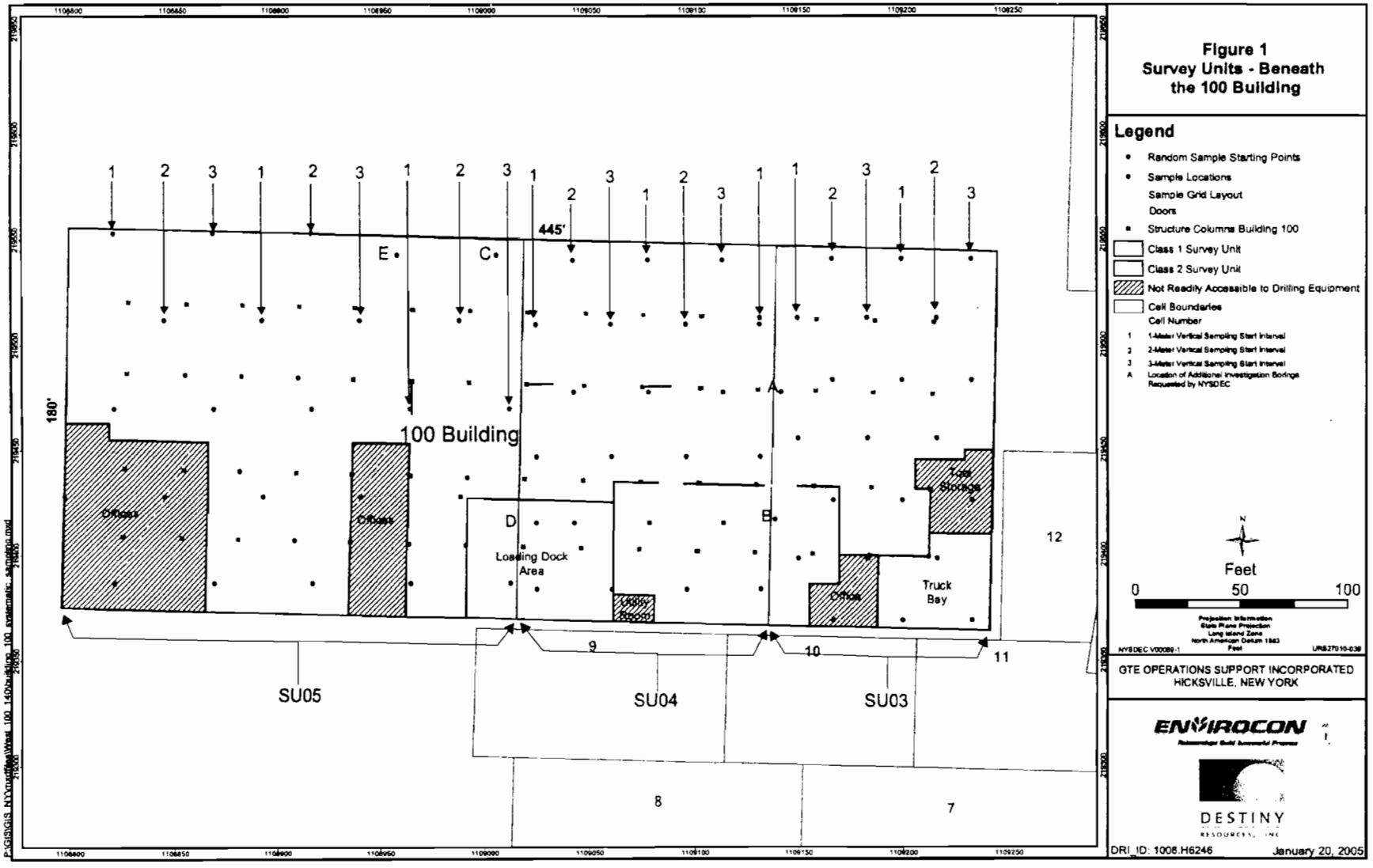
Jean M. Agostinelli
Vice President and Controller

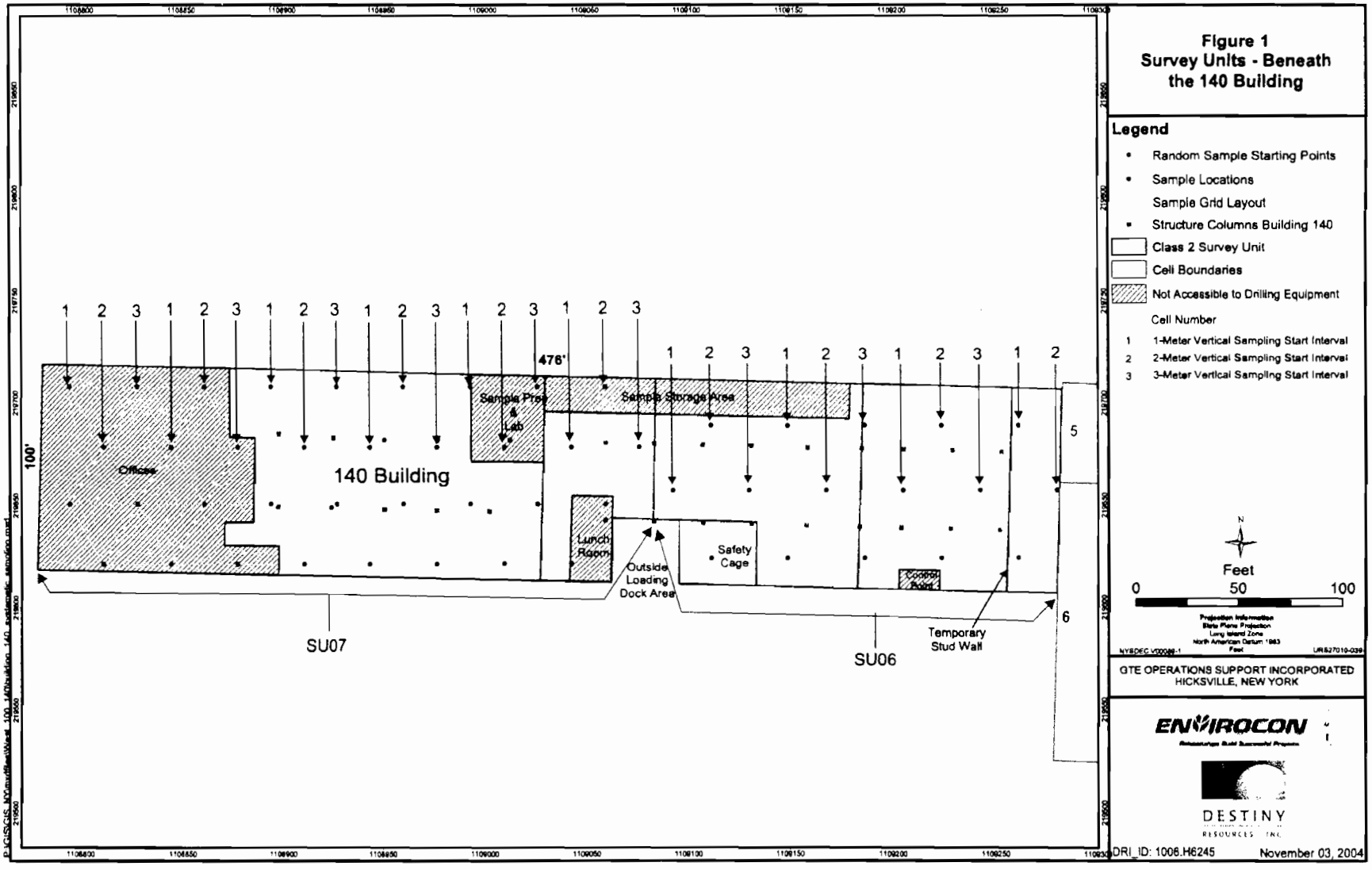
Walter Perish
Division of Environmental Remediation,
Region One
New York State Department of
Environmental Conservation
Building 40 – SUNY
Stony Brook, NY 11790-0248

Jacquelyn Nealon
Bureau of Environmental Exposure
Investigation
New York State Department of Health
Flannegan Square, Rm 300
547 River Street
Troy, NY 12180-2216

Jerry Riggi
Division of Solid and Hazardous Materials
Bureau of Hazardous Waste & Radiation
Management
New York State Department of
Environmental Conservation
625 Broadway
Albany, NY 12233-7255

Kevin Carpenter
Division of Environmental Remediation
New York State Department of
Environmental Conservation
625 Broadway
Albany, NY 12233-7015


445'
180'
100 Building
E
C
A
D
B
Offices
Offices
Loading Dock Area
Utility Room
Offices
Truck Bay
Lab Storage
12
9
10
11
SU05
SU04
SU03
8
7
Figure 1
Survey Units - Beneath the 100 Building
Legend
Random Sample Starting Points
Sample Locations
Sample Grid Layout
Doors
Structure Columns Building 100
Class 1 Survey Unit
Class 2 Survey Unit
Not Readily Accessible to Drilling Equipment
Cell Boundaries
Cell Number
1 1-Meter Vertical Sampling Start Interval
2 2-Meter Vertical Sampling Start Interval
3 3-Meter Vertical Sampling Start Interval
A Location of Additional Investigation Borings Requested by NYSDEC
N
Feet
0
50
100
Projection Information
State Plane Projection
Long Island Zone
North American Datum 1983
Feet
NYSDEC V00089-1
URS27010-038
GTE OPERATIONS SUPPORT INCORPORATED
HICKSVILLE, NEW YORK
ENVIROCON
DESTINY
RESOURCES, INC
DRI_ID: 1006.H6246
January 20, 2005


476'
100'
140 Building
Offices
Sample Prep & Lab
Sample Storage Area
Lunch Room
Outside Loading Dock Area
Safety Cage
Control Point
Temporary Stud Wall
SU07
SU06
5
6
Figure 1
Survey Units - Beneath the 140 Building
Legend
Random Sample Starting Points
Sample Locations
Sample Grid Layout
Structure Columns Building 140
Class 2 Survey Unit
Cell Boundaries
Not Accessible to Drilling Equipment
Cell Number
1 1-Meter Vertical Sampling Start Interval
2 2-Meter Vertical Sampling Start Interval
3 3-Meter Vertical Sampling Start Interval
N
Feet
0 50 100
Projection Information
State Plane Projection
Long Island Zone
North American Datum 1983
Feet
NYSDEC.V00088-1
URS27010-039
GTE OPERATIONS SUPPORT INCORPORATED
HICKSVILLE, NEW YORK
ENVIROCON
DESTINY
RESOURCES INC
DRI_ID: 1006.H6245
November 03, 2004

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region One
Building 40 - SUNY, Stony Brook, New York 11790-2356
Phone: (631) 444-0240 • **FAX:** (631) 444-0248
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

January 31, 2005

Jean Agostinelli
Vice President - Controller
GTE Operations Support, Inc.
600 Hidden Ridge Drive (HQE03E75)
Irving, TX 75038

Re: January 20, 2005 Response to NYSDEC Comments of December 20, 2004 on the SSSAP Beneath the 140 Building and the SSSAP Beneath the 100 Building
Former Sylvania Electric Products Facility; Site # V00089-1

Dear Ms. Agostinelli:

As indicated in my conference call with your staff, the proposed changes to the Subsurface Soil Sampling and Analysis Plan (SSSAP) Beneath the 140 Building, November 2004 and the SSSAP Beneath the 100 Building, November 2004, as stated in your letter dated January 20, 2005 are acceptable. With a copy of the January 20, 2005 letter attached to each of the November 2004 SSSA Plans, these documents are both hereby approved.

As you know, the Department requested that a soil gas survey be performed in conjunction with the two investigations noted above. However, your staff indicated that it would be difficult to add this sampling to the proposed work. Instead, you have committed to perform a soil gas survey on a grid later to evaluate soil gases beneath the buildings. I am attaching a copy of an e-mail message documenting your commitment to perform the soil gas survey.

You may proceed with these investigations. I am requesting that after you complete each borehole that you backfill them with clean, sandy fill of the similar porosity in each boring. If this presents any difficulties to you, please let me know. After you have completed each survey unit, the Department plans to perform a preliminary soil gas survey for each survey unit by inserting a soil gas probe into the backfilled soils to approximately 31 inches in each borehole. The soils will be pushed down around the probe at the surface to prevent drawing in vapors from above the borehole. The soil probe will be connected to an HNu with a 10.2 eV probe calibrated to benzene. Peak and steady-state soil gas readings will be recorded. The purpose of these preliminary soil gas surveys for SU-03 through SU-07 is to help determine the grid spacing and analytical requirements for the subsequent soil gas surveys for these survey units that you will perform later. It is also expected that the results of the preliminary soil gas surveys will help the Department with its interpretation of the results of your soil sampling for volatile organic compounds. Of course, you may oversee this sampling and I'll share my results with you.

The Department realizes that the preliminary soil gas surveys performed by the Department are just a preliminary screening tool. Consequently, no formal report will be prepared.

If you have any questions, please do not hesitate to call me.

Sincerely,

Robert R. Stewart
Environmental Engineer I

Enclosure

cc: W. Parish
J. Riggi
K. Carpenter
J. Nealon, NYSDOH

From: <elie.a.ghannoum@verizon.com>
To: "Robert Stewart" <rrstewar@gw.dec.state.ny.us>, "Walter Parish" <wjparish@gw.dec.state.ny.us>
Date: 1/27/05 1:38PM
Subject: January 26, 05 Conference Call

Bob, per our conference call as of yesterday (1/26/05) with you and Walter, if the Department feels that it is necessary to conduct soil vapor sampling within the survey units 3 through 7 of the 140 and 100 Buildings once the soil investigation beneath the Buildings are completed and the results of the investigation are presented to the Department, GTEOSI will submit to NYSDEC a sampling grid pattern and established protocol by which such sampling will be conducted. With the understanding as described above, GTEOSI, with your approval, will commence the work as outlined in our letter to you dated November 17, 2004 and our January 20, 2005 response to your comments of December 20, 2004 on the Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 140 Building and Systematic Subsurface Soil Sampling and Analysis Plan Beneath the 100 Building.

Thanks

Elie

(Embedded image moved to file: pic06903.gif)

CC: "Lucky Tabor" <LTabor@envirocon.com>, <Rob_Brathovde@URSCorp.com>, <Carol_Scholl@URSCorp.com>, <Michael_Ander@URSCorp.com>, <jean.agostinelli@verizon.com>

Appendix C – Boring Logs

Boring Logs are available for review on CD provided.

SU03 MARSSIM Evaluation Results Using Severn Trent Laboratories, Inc. Sample Results

SU03, Intervals 1, 2, and 3 passed the MARSSIM[1] Sign Test and the associated soils are considered releasable from a radiological perspective. These intervals consist of SP samples collected and analyzed in the 0 to 3-m, 3 to 6-m, and 6 to 9-m depth ranges, respectively. The MARSSIM protocol uses a non-parametric statistical analysis test that evaluates all of the SP sample results for a single interval separately. Therefore, there were three independent evaluations within the three-dimensional footprint of SU03.

There were a total of 21 SP sample results in Interval 1, 21 in Interval 2, and 21 in Interval 3. All samples were analyzed for radiological analytes of interest (Th-232, U-234, and U-238) for purposes of this evaluation. The sample results for each of the samples are presented in **Table 2** and are the results reported by STL.

The charts on the subsequent pages of this appendix were generated by the COMPASS[2] computer code. As shown on the first page of the COMPASS Surface Soil Survey Plan for each interval, a minimum of 13 soil sample analyses were sufficient for the MARSSIM-based analysis to be statistically significant. As stated earlier, this MARSSIM-based analysis for Intervals 1, 2, and 3 in this SU were each based on 21 soil sample analyses, respectively.

Included in the assessment of SU03 are three reports. The cover report is titled *Site Report* and provides information the radiological contaminants and their respective DCGLw[3] (the Site cleanup levels specified in the Work Plan) used in the evaluation of each interval.

Each interval assessment is comprised of two COMPASS reports. The first report is titled *Surface Soil Survey Plan*. This report contains information that was used in the planning phase of the survey or soil sample collection. This information was based on the Site's cleanup levels and cell parameters or is information that was derived from these parameters. The last section of this report contains information that, by design, was an estimate of the average concentration and the standard deviation anticipated to be present in the survey unit interval for each radionuclide. The values in this report were based on the actual average concentration and standard deviation of each radionuclide as calculated from the sample results.

The second report is titled *DQA Surface Soil Report*. This report presents the results of performing a non-parametric statistical analysis called the Sign Test on the samples results. On the first page of this report is given the *Assessment Conclusion* which is *Reject Null Hypothesis (Survey Unit PASSES)* for all three intervals. The only other possible conclusion is if the survey unit did not pass. Other information presented in the report is either input information that is echoed back in the report or is information related to the performance of the Sign Test. Also included in the report is a table titled *Basic Statistical Quantities Summary*. The average or mean SOR is shown in this table. This SOR value is high (conservative) by approximately a factor of 2 due to the use of individual uranium radionuclides in the evaluation and the limitations on the flexibility of this version of COMPASS. The information in this table supports the earlier stated conclusion as it demonstrates that the average concentration of radiological contaminants is significantly below the cleanup levels.

[1] NUREG-1575, Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), August 2000.
[2] *COMPASS Code* Version 1.0.0 was developed under the sponsorship of the U. S. Nuclear Regulatory Commission for implementing the MARSSIM in support of the decommissioning license termination rule (10 CFR Part 20, Subpart E).
[3] For these purposes, the term DCGL is synonymous with the term cleanup level.

Site Report

Site Summary

Site Name: GTEOSI - Hicksville Site

Planner(s): Shane Brightwell

Contaminant Summary

NOTE: Surface soil DCGLw units are pCi/g.
Building surface DCGLw units are dpm/100 cm².

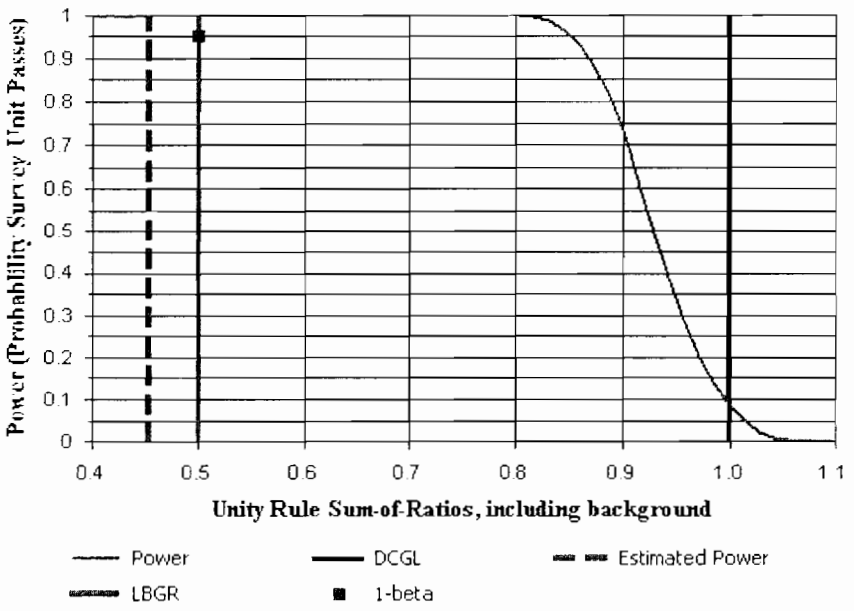
Contaminant	Type	DCGLw	Screening Value Used?	Area (m²)	Area Factor
Th-232	Surface Soil	2.80	No	1	12.3
				3	6.08
				10	3.12
				30	2.24
				100	1.75
				300	1.47
				1,000	1.05
				3,000	1.03
				10,000	1
U-234	Surface Soil	50.00	No	1	30.5
				3	18.3
				10	11.1
				30	5.73
				100	2.27
				300	1.43
				1,000	1.04
				3,000	1.01
				10,000	1
U-238	Surface Soil	50.00	No	1	30.5
				3	18.3
				10	11.1
				30	5.73
				100	2.27
				300	1.43
				1,000	1.04
				3,000	1.01
				10,000	1

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU03 Interval 1 01		
Comments:	SU03 Interval 1 Run 01		
Area (m²):	1,539	Classification:	1
Selected Test:	Sign	Estimated Sigma (SOR):	0.14
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.45
Alpha:	0.050	Estimated Power:	1
Beta:	0.050	EMC Sample Size (N):	13
Scanning Instrumentation:	3" NaI		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	1.8
U-234	50.00	N/A	N/A	N/A	80
U-238	50.00	N/A	N/A	N/A	80

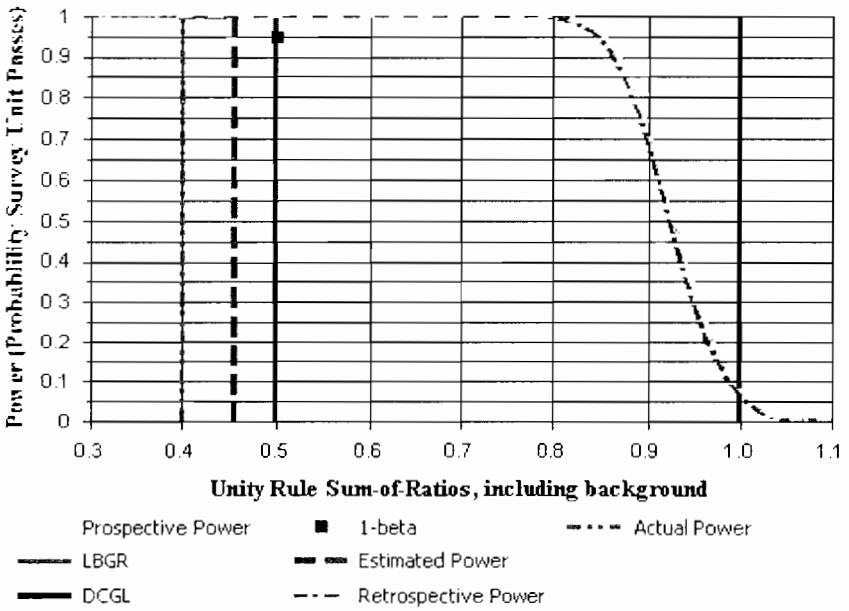
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.783 ± 0.254	N/A
U-234	4.712 ± 4.108	N/A
U-238	4.025 ± 3.757	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU03 Interval 1 01		
Report Number:	1		
Survey Unit Samples:	21		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
26414	S	0.81	9.8	6.5
27567	S	0.87	8.6	7.9
27856	S	0.58	4.92	3.37
28020	S	0.61	2.1	2.08
27404	S	0.68	5.79	3.92
28275	S	0.73	16.2	16.3
26723	S	0.95	9.2	5.87
27089	S	0.81	6.33	5.31
27626	S	0.95	1.06	1
28329	S	0.74	3.6	3.23
27958	S	0.79	9	8
27321	S	0.82	6.74	6.38
26658	S	0.45	0.85	0.42
27738	S	1.17	2.05	1.65
28134	S	0.41	4.97	5.12
27474	S	0.59	0.49	0.36
26539	S	0.87	0.55	0.72
27256	S	0.62	2.59	2.66
28385	S	0.75	0.58	0.55
26856	S	0.66	2.32	1.82
28216	S	1.59	1.22	1.36

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
26414	S	0.62
27567	S	0.64
27856	S	0.37
28020	S	0.3
27404	S	0.44
28275	S	0.91
26723	S	0.64
27089	S	0.52
27626	S	0.38
28329	S	0.4
27958	S	0.62
27321	S	0.56
26658	S	0.19
27738	S	0.49
28134	S	0.35
27474	S	0.23
26539	S	0.34
27256	S	0.33
28385	S	0.29

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
26856	S	0.32
28216	S	0.62

DQA Surface Soil Report

Basic Statistical Quantities Summary

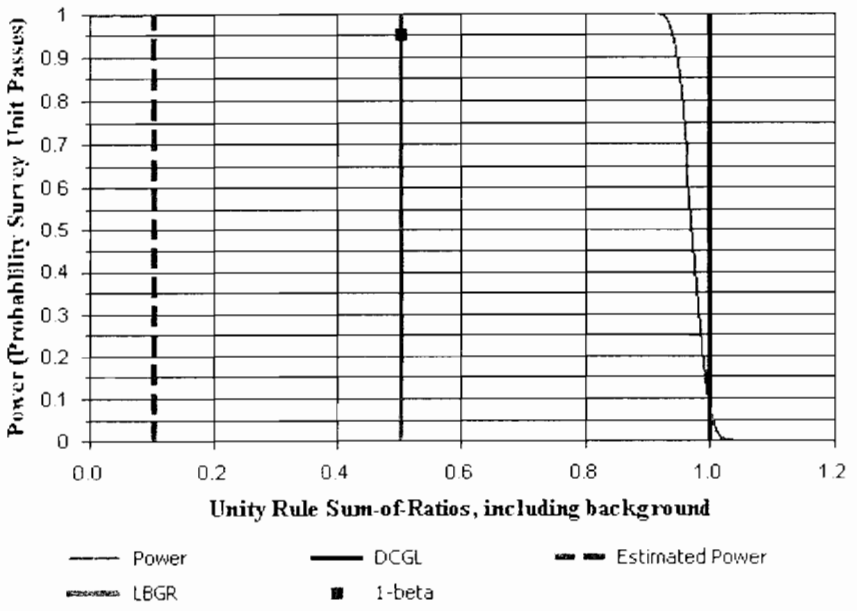
Statistic	Survey Unit	Background	DQO Results
Sample Number	21	N/A	N=13
Mean (SOR)	0.46	N/A	0.45
Median (SOR)	0.40	N/A	N/A
Std Dev (SOR)	0.18	N/A	0.14
High Value (SOR)	0.91	N/A	N/A
Low Value (SOR)	0.19	N/A	N/A

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU03 Interval 2 01		
Comments:	SU03 Interval 2 Run 01		
Area (m²):	1,539	Classification:	1
Selected Test:	Sign	Estimated Sigma (SOR):	0.06
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.1
Alpha:	0.050	Estimated Power:	1
Beta:	0.050	EMC Sample Size (N):	13
Scanning Instrumentation:	3" NaI		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	1.8
U-234	50.00	N/A	N/A	N/A	80
U-238	50.00	N/A	N/A	N/A	80

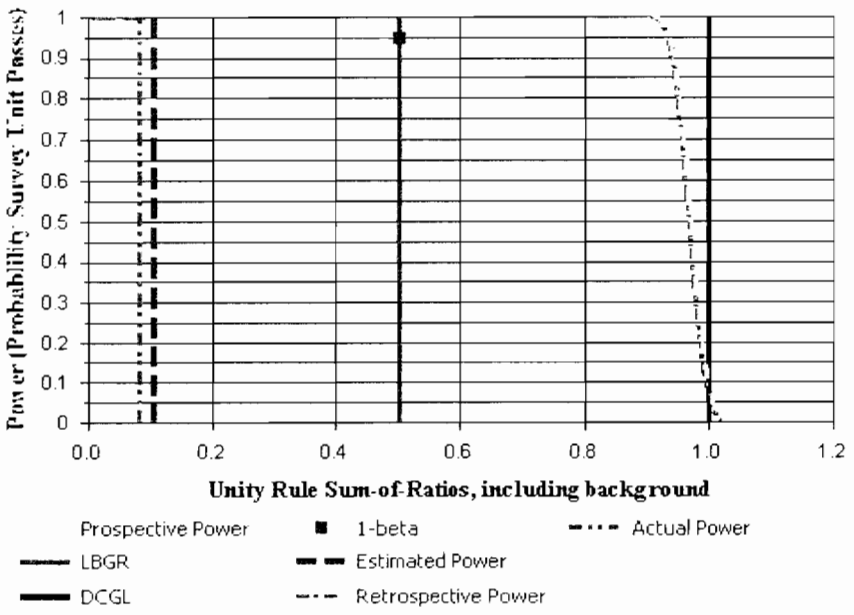
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.193 ± 0.071	N/A
U-234	0.902 ± 1.719	N/A
U-238	0.863 ± 1.871	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU03 Interval 2 01		
Report Number:	1		
Survey Unit Samples:	21		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
27867	S	0.28	0.61	0.53
28284	S	0.18	0.38	0.3
28041	S	0.17	8.2	8.9
27426	S	0.38	1.86	1.49
27576	S	0.14	0.82	0.76
26446	S	0.14	0.21	0.19
26779	S	0.14	0.29	0.25
27974	S	0.12	1.06	0.94
27118	S	0.21	0.29	0.29
27336	S	0.18	0.8	0.84
28341	S	0.27	0.51	0.41
27658	S	0.25	0.79	0.47
26673	S	0.31	0.51	0.38
26566	S	0.15	0.22	0.19
26896	S	0.17	0.19	0.14
28393	S	0.21	0.25	0.21
28241	S	0.14	0.28	0.3
28152	S	0.14	0.78	0.71
27280	S	0.11	0.43	0.4
27752	S	0.24	0.32	0.3
27497	S	0.13	0.14	0.12

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
27867	S	0.12
28284	S	0.08
28041	S	0.4
27426	S	0.2
27576	S	0.08
26446	S	0.06
26779	S	0.06
27974	S	0.08
27118	S	0.09
27336	S	0.1
28341	S	0.12
27658	S	0.12
26673	S	0.13
26566	S	0.06
26896	S	0.07
28393	S	0.08
28241	S	0.06
28152	S	0.08
27280	S	0.05

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
27752	S	0.1
27497	S	0.05

DQA Surface Soil Report

Basic Statistical Quantities Summary

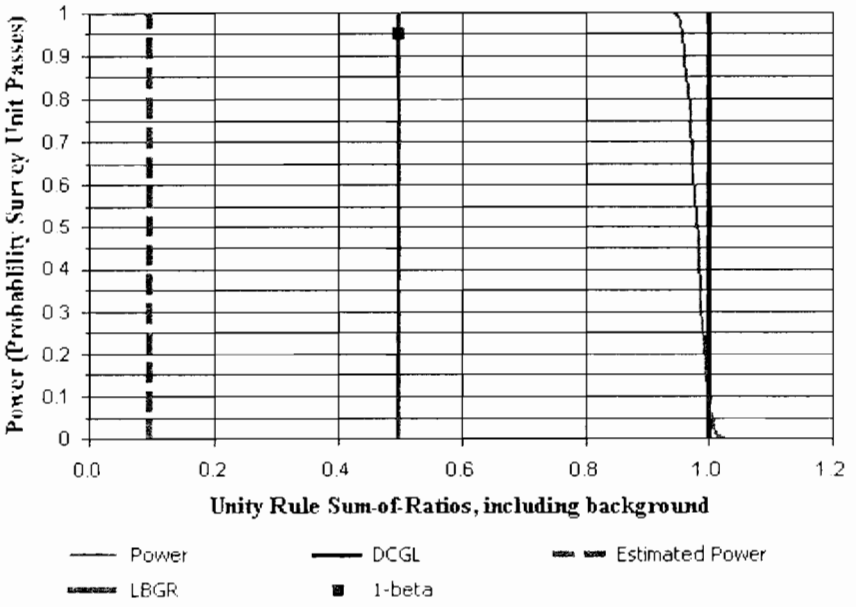
Statistic	Survey Unit	Background	DQO Results
Sample Number	21	N/A	N=13
Mean (SOR)	0.10	N/A	0.1
Median (SOR)	0.08	N/A	N/A
Std Dev (SOR)	0.08	N/A	0.06
High Value (SOR)	0.40	N/A	N/A
Low Value (SOR)	0.05	N/A	N/A

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU03 Interval 3 01		
Comments:	SU03 Interval 3 Run 01		
Area (m²):	1,539	Classification:	1
Selected Test:	Sign	Estimated Sigma (SOR):	0.04
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.1
Alpha:	0.050	Estimated Power:	1
Beta:	0.050	EMC Sample Size (N):	13
Scanning Instrumentation:	3" NaI		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	1.8
U-234	50.00	N/A	N/A	N/A	80
U-238	50.00	N/A	N/A	N/A	80

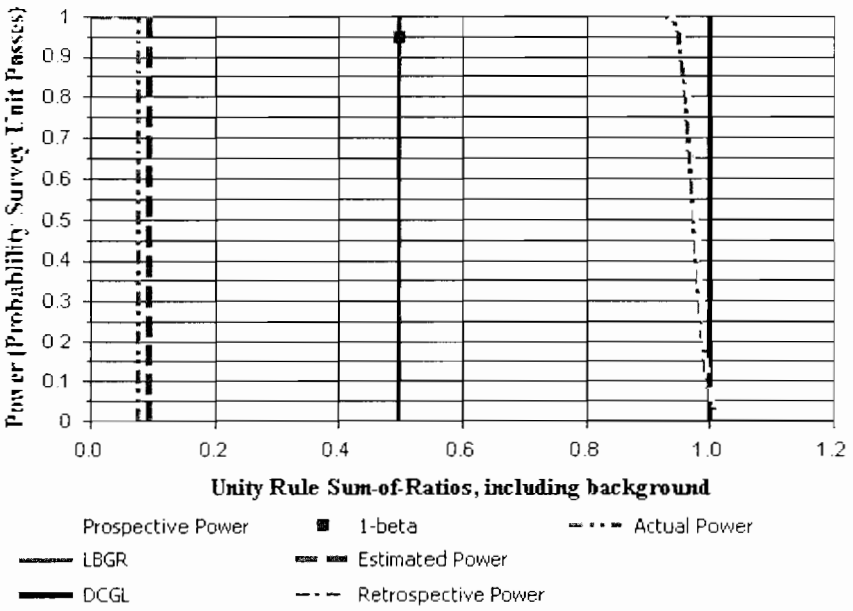
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.213 ± 0.077	N/A
U-234	0.507 ± 0.89	N/A
U-238	0.486 ± 0.862	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU03 Interval 3 01		
Report Number:	1		
Survey Unit Samples:	21		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
28060	S	0.45	4.31	4.18
26479	S	0.12	0.16	0.2
27885	S	0.16	0.77	0.57
27439	S	0.2	0.42	0.45
26813	S	0.18	0.15	0.16
28300	S	0.24	0.14	0.21
27590	S	0.15	0.52	0.62
27998	S	0.19	0.43	0.47
26698	S	0.12	0.17	0.18
27366	S	0.27	0.26	0.21
27166	S	0.26	0.54	0.51
27678	S	0.23	0.42	0.26
28351	S	0.27	0.18	0.22
28405	S	0.15	0.13	0.16
28263	S	0.18	0.31	0.24
27533	S	0.2	0.19	0.19
26617	S	0.21	0.17	0.2
26926	S	0.15	0.17	0.12
27761	S	0.27	0.22	0.24
28170	S	0.16	0.61	0.61
27298	S	0.33	0.35	0.22

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
28060	S	0.33
26479	S	0.05
27885	S	0.08
27439	S	0.09
26813	S	0.07
28300	S	0.09
27590	S	0.08
27998	S	0.09
26698	S	0.05
27366	S	0.11
27166	S	0.11
27678	S	0.1
28351	S	0.1
28405	S	0.06
28263	S	0.07
27533	S	0.08
26617	S	0.08
26926	S	0.06
27761	S	0.11

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
28170	S	0.08
27298	S	0.13

DQA Surface Soil Report

Basic Statistical Quantities Summary

Statistic	Survey Unit	Background	DQO Results
Sample Number	21	N/A	N=13
Mean (SOR)	0.10	N/A	0.1
Median (SOR)	0.08	N/A	N/A
Std Dev (SOR)	0.06	N/A	0.04
High Value (SOR)	0.33	N/A	N/A
Low Value (SOR)	0.05	N/A	N/A

SU04 MARSSIM Evaluation Results Using Severn Trent Laboratories, Inc. Sample Results

SU04, Intervals 1, 2, and 3 passed the MARSSIM[1] Sign Test and the associated soils are considered releasable from a radiological perspective. These intervals consist of SP samples collected and analyzed in the 0 to 3-m, 3 to 6-m, and 6 to 9-m depth ranges, respectively. The MARSSIM protocol uses a non-parametric statistical analysis test that evaluates all of the SP sample results for a single interval separately. Therefore, there were three independent evaluations within the three-dimensional footprint of SU04.

There were a total of 18 SP sample results in Interval 1, 22 in Interval 2, and 22 in Interval 3. All samples were analyzed for radiological analytes of interest (Th-232, U-234, and U-238) for purposes of this evaluation. The sample results for each of the samples are presented in **Table 2** and are the results reported by STL.

The charts on the subsequent pages of this appendix were generated by the COMPASS[2] Software. As shown on the first page of the COMPASS Surface Soil Survey Plan for each interval, a minimum of 13 soil sample analyses were sufficient for the MARSSIM-based analysis to be statistically significant. As stated earlier, this MARSSIM-based analysis for Intervals 1, 2, and 3 in this SU were based on 18, 22, and 22 soil sample analyses, respectively.

Included in the assessment of SU04 are three reports. The cover report is titled *Site Report* and provides information the radiological contaminants and their respective DCGLw[3] (the Site cleanup levels specified in the Work Plan) used in the evaluation of each interval.

Each interval assessment is comprised of two COMPASS reports. The first report is titled *Surface Soil Survey Plan*. This report contains information that was used in the planning phase of the survey or soil sample collection. This information was based on the Site's cleanup levels and cell parameters or is information that was derived from these parameters. The last section of this report contains information that, by design, was an estimate of the average concentration and the standard deviation anticipated to be present in the survey unit interval for each radionuclide. The values in this report were based on the actual average concentration and standard deviation of each radionuclide as calculated from the sample results.

The second report is titled *DQA Surface Soil Report*. This report presents the results of performing a non-parametric statistical analysis called the Sign Test on the samples results. On the first page of this report is given the *Assessment Conclusion* which is *Reject Null Hypothesis (Survey Unit PASSES)* for all three intervals. The only other possible conclusion is if the survey unit did not pass. Other information presented in the report is either input information that is echoed back in the report or is information related to the performance of the Sign Test. Also included in the report is a table titled *Basic Statistical Quantities Summary*. The average or mean SOR is shown in this table. This SOR value is high (conservative) by approximately a factor of 2 due to the use of individual uranium radionuclides in the evaluation and the limitations on the flexibility of this version of the COMPASS Software. The information in this table supports the earlier stated conclusion as it demonstrates that the average concentration of radiological contaminants is significantly below the cleanup levels.

[1] NUREG-1575, Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), August 2000.
[2] *COMPASS Software* Version 1.0.0 was developed under the sponsorship of the U. S. Nuclear Regulatory Commission for implementing the MARSSIM in support of the decommissioning license termination rule (10 CFR Part 20, Subpart E).
[3] For these purposes, the term DCGL is synonymous with the term cleanup level.

Site Report

Site Summary

Site Name: GTEOSI - Hicksville Site

Planner(s): Shane Brightwell

Contaminant Summary

NOTE: Surface soil DCGLw units are pCi/g.
Building surface DCGLw units are dpm/100 cm².

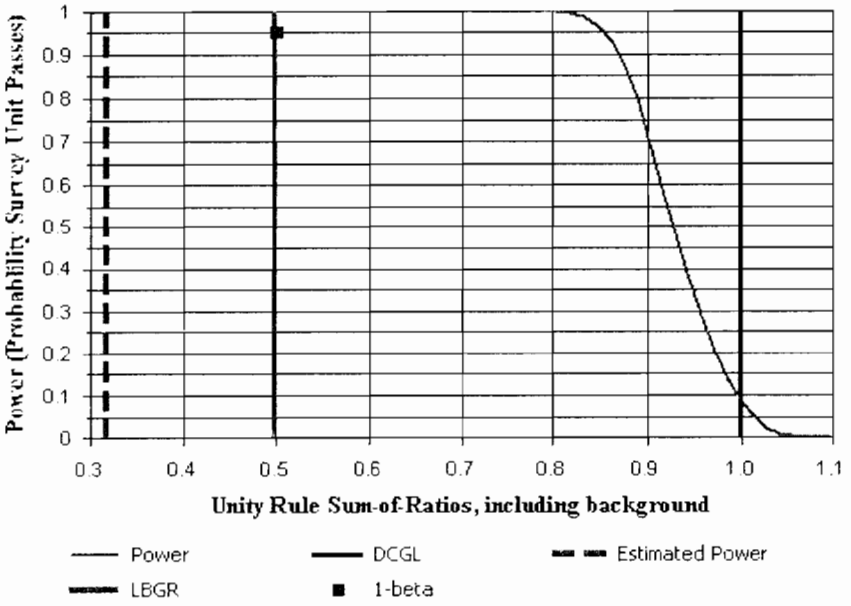
Contaminant	Type	DCGLw	Screening Value Used?	Area (m²)	Area Factor
Th-232	Surface Soil	2.80	No	1	12.3
				3	6.08
				10	3.12
				30	2.24
				100	1.75
				300	1.47
				1,000	1.05
				3,000	1.03
				10,000	1
U-234	Surface Soil	50.00	No	1	30.5
				3	18.3
				10	11.1
				30	5.73
				100	2.27
				300	1.43
				1,000	1.04
				3,000	1.01
				10,000	1
U-238	Surface Soil	50.00	No	1	30.5
				3	18.3
				10	11.1
				30	5.73
				100	2.27
				300	1.43
				1,000	1.04
				3,000	1.01
				10,000	1

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU04 Interval 1 01		
Comments:	SU04 Interval 1 Interval 01		
Area (m²):	1,983	Classification:	1
Selected Test:	Sign	Estimated Sigma (SOR):	0.14
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.32
Alpha:	0.050	Estimated Power:	1
Beta:	0.050	EMC Sample Size (N):	13
Scanning Instrumentation:	3" NaI		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	1.8
U-234	50.00	N/A	N/A	N/A	80
U-238	50.00	N/A	N/A	N/A	80

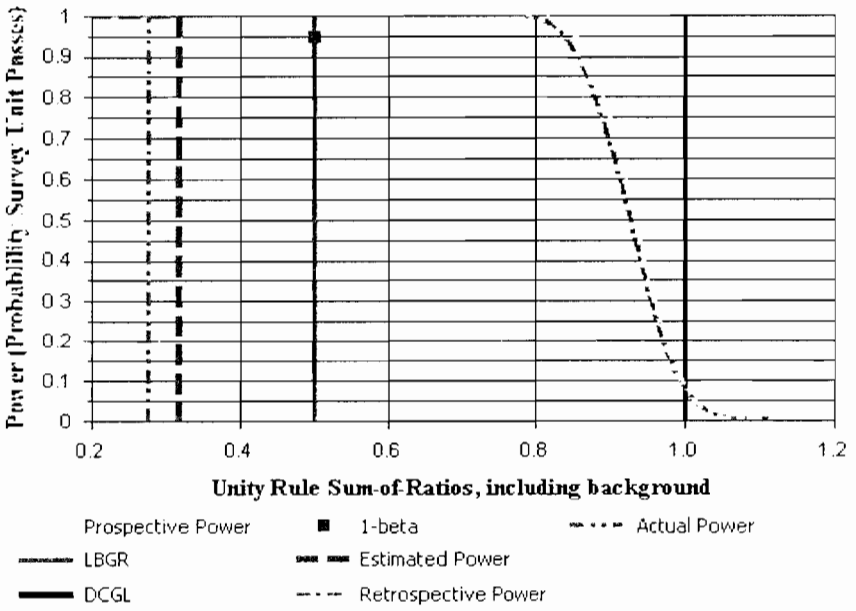
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.565 ± 0.239	N/A
U-234	3.07 ± 4.083	N/A
U-238	2.754 ± 3.652	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU04 Interval 1 01		
Report Number:	1		
Survey Unit Samples:	18		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
28575	S	0.66	2.05	2.14
29542	S	0.81	8	7.6
28536	S	0.46	1.78	1.53
28756	S	1	0.95	0.85
28431	S	0.82	7.85	4.71
29412	S	0.7	0.96	0.73
28872	S	0.56	0.32	0.34
28913	S	0.36	0.33	0.37
29112	S	0.43	0.47	0.44
29495	S	0.61	9.1	8.9
29655	S	0.76	5.82	5.64
29299	S	0.48	0.85	0.65
28654	S	0.34	0.52	0.48
28814	S	0.19	0.27	0.34
28718	S	0.23	0.66	0.89
28492	S	0.68	0.69	0.61
29798	S	0.22	14.1	12.7
29377	S	0.85	0.53	0.66

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
28575	S	0.32
29542	S	0.6
28536	S	0.23
28756	S	0.39
28431	S	0.54
29412	S	0.28
28872	S	0.21
28913	S	0.14
29112	S	0.17
29495	S	0.58
29655	S	0.5
29299	S	0.2
28654	S	0.14
28814	S	0.08
28718	S	0.11
28492	S	0.27
29798	S	0.62
29377	S	0.33

DQA Surface Soil Report

Basic Statistical Quantities Summary

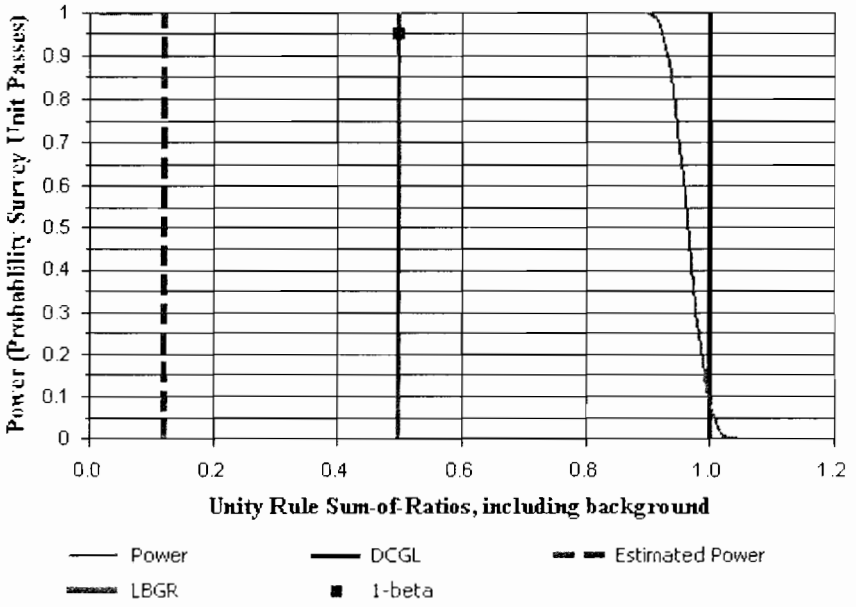
Statistic	Survey Unit	Background	DQO Results
Sample Number	18	N/A	N=13
Mean (SOR)	0.32	N/A	0.32
Median (SOR)	0.28	N/A	N/A
Std Dev (SOR)	0.18	N/A	0.14
High Value (SOR)	0.62	N/A	N/A
Low Value (SOR)	0.08	N/A	N/A

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU04 Interval 2 01		
Comments:	SU04 Interval 2 Run 01		
Area (m²):	1,983	Classification:	1
Selected Test:	Sign	Estimated Sigma (SOR):	0.07
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.12
Alpha:	0.050	Estimated Power:	1
Beta:	0.050	EMC Sample Size (N):	13
Scanning Instrumentation:	3" NaI		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	1.8
U-234	50.00	N/A	N/A	N/A	80
U-238	50.00	N/A	N/A	N/A	80

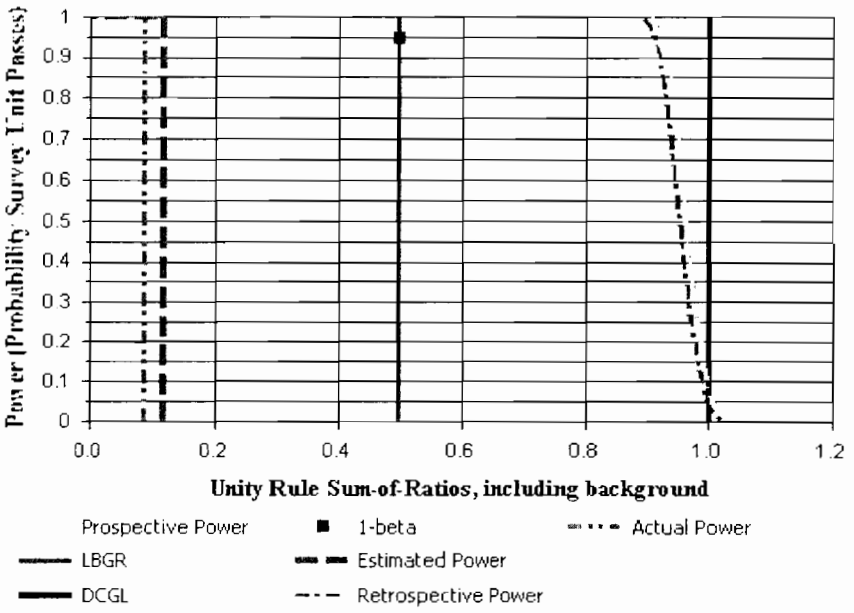
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.238 ± 0.14	N/A
U-234	0.869 ± 1.903	N/A
U-238	0.864 ± 1.928	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU04 Interval 2 01		
Report Number:	1		
Survey Unit Samples:	22		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
29063	S	0.18	0.38	0.3
28593	S	0.17	0.35	0.31
29764	S	0.24	1.49	1.42
28440	S	0.26	0.36	0.27
29712	S	0.84	1.47	1.49
29426	S	0.18	0.24	0.22
28773	S	0.2	0.19	0.18
29001	S	0.25	0.3	0.32
29607	S	0.29	0.55	0.54
28550	S	0.2	0.41	0.42
29508	S	0.24	1.11	1.26
28884	S	0.22	0.2	0.16
28939	S	0.28	0.14	0.22
29319	S	0.23	0.2	0.19
29668	S	0.18	0.81	0.71
29132	S	0.16	0.19	0.18
29813	S	0.21	9.2	9.3
28733	S	0.16	0.22	0.18
28826	S	0.19	0.13	0.16
29389	S	0.16	0.2	0.16
28501	S	0.2	0.49	0.62
28668	S	0.2	0.48	0.39

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
29063	S	0.08
28593	S	0.07
29764	S	0.14
28440	S	0.11
29712	S	0.36
29426	S	0.07
28773	S	0.08
29001	S	0.1
29607	S	0.13
28550	S	0.09
29508	S	0.13
28884	S	0.09
28939	S	0.11
29319	S	0.09
29668	S	0.09
29132	S	0.07
29813	S	0.45
28733	S	0.06

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
28826	S	0.07
29389	S	0.06
28501	S	0.09
28668	S	0.09

DQA Surface Soil Report

Basic Statistical Quantities Summary

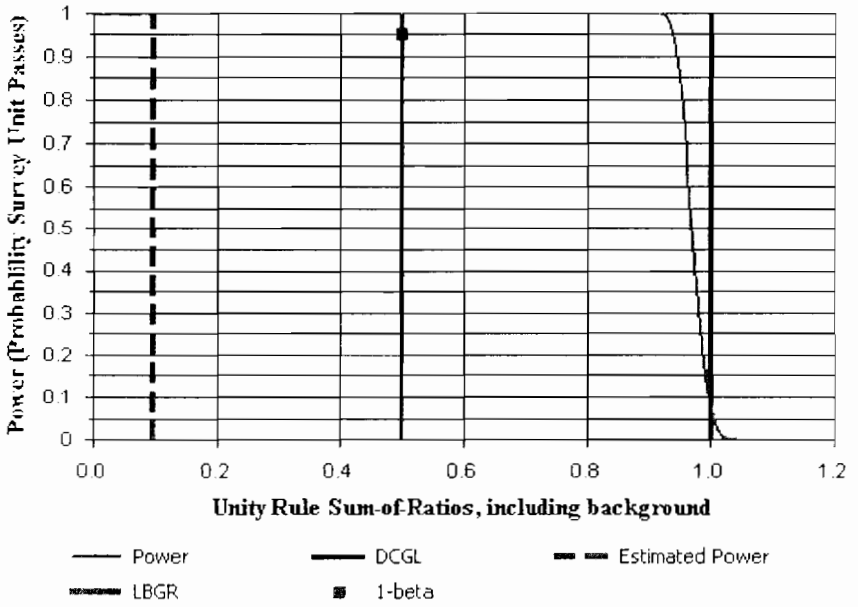
Statistic	Survey Unit	Background	DQO Results
Sample Number	22	N/A	N=13
Mean (SOR)	0.12	N/A	0.12
Median (SOR)	0.09	N/A	N/A
Std Dev (SOR)	0.10	N/A	0.07
High Value (SOR)	0.45	N/A	N/A
Low Value (SOR)	0.06	N/A	N/A

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU04 Interval 3 02		
Comments:	SU04 Interval 3 Run 02		
Area (m²):	1,984	Classification:	1
Selected Test:	Sign	Estimated Sigma (SOR):	0.06
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.1
Alpha:	0.050	Estimated Power:	1
Beta:	0.050	EMC Sample Size (N):	13
Scanning Instrumentation:	3" NaI		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	1.8
U-234	50.00	N/A	N/A	N/A	80
U-238	50.00	N/A	N/A	N/A	80

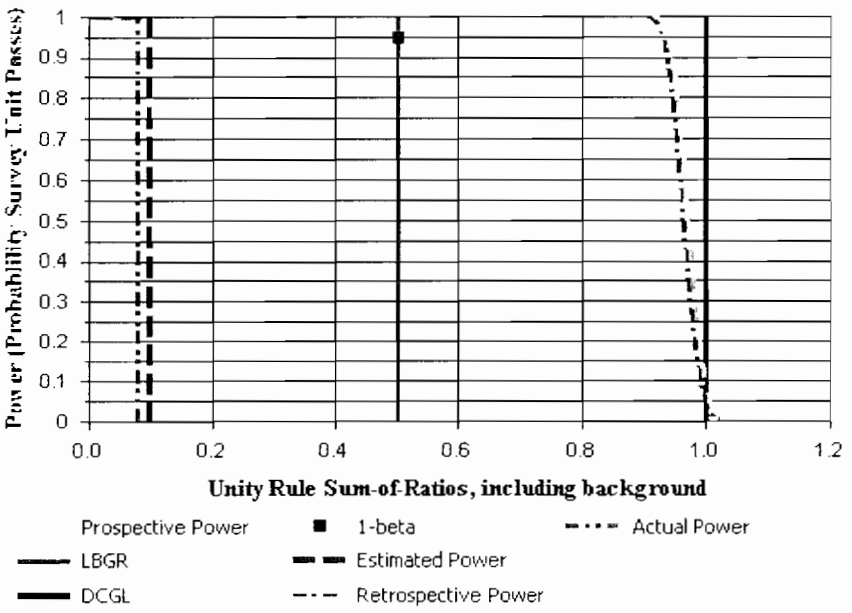
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.181 ± 0.074	N/A
U-234	0.87 ± 1.991	N/A
U-238	0.888 ± 2.069	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU04 Interval 3 02		
Report Number:	2		
Survey Unit Samples:	22		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
29078	S	0.17	0.29	0.28
28562	S	0.17	0.41	0.34
29773	S	0.13	6.24	6.32
29013	S	0.41	0.29	0.29
29731	S	0.2	0.26	0.34
28454	S	0.12	0.18	0.15
28604	S	0.12	0.27	0.2
29616	S	0.2	0.42	0.45
28789	S	0.16	0.18	0.18
29439	S	0.25	0.2	0.21
29686	S	0.14	0.24	0.23
29337	S	0.23	0.18	0.2
28960	S	0.24	0.18	0.17
28893	S	0.28	0.19	0.2
29149	S	0.15	0.23	0.17
29526	S	0.17	0.7	0.75
28681	S	0.11	0.27	0.23
28512	S	0.27	0.3	0.3
28849	S	0.11	0.14	0.12
29398	S	0.09	0.12	0.13
29830	S	0.12	7.7	8.1
28742	S	0.12	0.15	0.19

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
29078	S	0.07
28562	S	0.07
29773	S	0.3
29013	S	0.16
29731	S	0.08
28454	S	0.05
28604	S	0.05
29616	S	0.09
28789	S	0.07
29439	S	0.1
29686	S	0.06
29337	S	0.09
28960	S	0.09
28893	S	0.11
29149	S	0.06
29526	S	0.09
28681	S	0.05
28512	S	0.11

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
28849	S	0.04
29398	S	0.04
29830	S	0.36
28742	S	0.05

DQA Surface Soil Report

Basic Statistical Quantities Summary

Statistic	Survey Unit	Background	DQO Results
Sample Number	22	N/A	N=13
Mean (SOR)	0.10	N/A	0.1
Median (SOR)	0.08	N/A	N/A
Std Dev (SOR)	0.08	N/A	0 06
High Value (SOR)	0.36	N/A	N/A
Low Value (SOR)	0.04	N/A	N/A

SU05 MARSSIM Evaluation Results Using Severn Trent Laboratories, Inc. Sample Results

SU05, Intervals 1, 2, and 3 passed the MARSSIM[1] Sign Test and the associated soils are considered releasable from a radiological perspective. These intervals consist of SP samples collected and analyzed in the 0 to 3-m, 3 to 6-m, and 6 to 9-m depth ranges, respectively. The MARSSIM protocol uses a non-parametric statistical analysis test that evaluates all of the SP sample results for a single interval separately. Therefore, there were three independent evaluations within the three-dimensional footprint of SU05.

There were a total of 21 SP sample results in Interval 1, 21 in Interval 2, and 21 in Interval 3. All samples were analyzed for radiological analytes of interest (Th-232, U-234, and U-238) for purposes of this evaluation. The sample results for each of the samples are presented in **Table 2** and are the results reported by STL.

The charts on the subsequent pages of this appendix were generated by the COMPASS[2] computer code. As shown on the first page of the COMPASS Surface Soil Survey Plan for each interval, a minimum of 13 soil sample analyses were sufficient for the MARSSIM-based analysis to be statistically significant. As stated earlier, this MARSSIM-based analysis for Intervals 1, 2, and 3 in this SU were each based on 21 soil sample analyses, respectively.

Included in the assessment of SU05 are three reports. The cover report is titled *Site Report* and provides information the radiological contaminants and their respective DCGLw[3] (the Site cleanup levels specified in the Work Plan) used in the evaluation of each interval.

Each interval assessment is comprised of two COMPASS reports. The first report is titled *Surface Soil Survey Plan*. This report contains information that was used in the planning phase of the survey or soil sample collection. This information was based on the Site's cleanup levels and cell parameters or is information that was derived from these parameters. The last section of this report contains information that, by design, was an estimate of the average concentration and the standard deviation anticipated to be present in the survey unit interval for each radionuclide. The values in this report were based on the actual average concentration and standard deviation of each radionuclide as calculated from the sample results.

The second report is titled *DQA Surface Soil Report*. This report presents the results of performing a non-parametric statistical analysis called the Sign Test on the samples results. On the first page of this report is given the *Assessment Conclusion* which is *Reject Null Hypothesis (Survey Unit PASSES)* for all three intervals. The only other possible conclusion is if the survey unit did not pass. Other information presented in the report is either input information that is echoed back in the report or is information related to the performance of the Sign Test. Also included in the report is a table titled *Basic Statistical Quantities Summary*. The average or mean SOR is shown in this table. This SOR value is high (conservative) by approximately a factor of 2 due to the use of individual uranium radionuclides in the evaluation and the limitations on the flexibility of this version of COMPASS. The information in this table supports the earlier stated conclusion as it demonstrates that the average concentration of radiological contaminants is significantly below the cleanup levels.

[1] NUREG-1575, Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), August 2000
[2] *COMPASS Code* Version 1.0.0 was developed under the sponsorship of the U. S. Nuclear Regulatory Commission for implementing the MARSSIM in support of the decommissioning license termination rule (10 CFR Part 20, Subpart E).
[3] For these purposes, the term DCGL is synonymous with the term cleanup level

Site Report

Site Summary

Site Name: GTEOSI - Hicksville Site

Planner(s): Shane Brightwell

Contaminant Summary

NOTE: Surface soil DCGLw units are pCi/g
Building surface DCGLw units are dpm/100 cm²

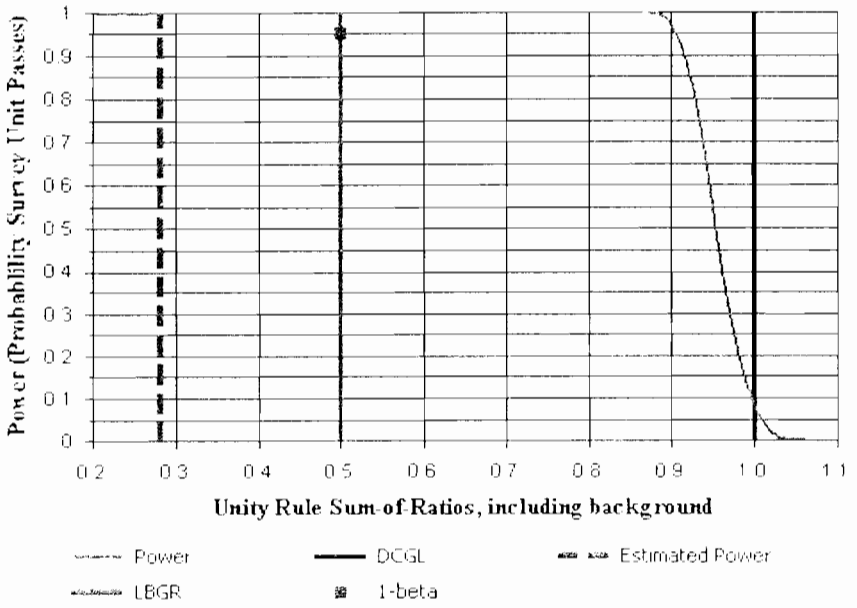
Contaminant	Type	DCGLw	Screening Value Used?	Area (m²)	Area Factor
Th-232	Surface Soil	2.80	No	1	12.3
				3	6.08
				10	3.12
				30	2.24
				100	1.75
				300	1.47
				1,000	1.05
				3,000	1.03
				10,000	1
U-234	Surface Soil	50.00	No	1	30.5
				3	18.3
				10	11.1
				30	5.73
				100	2.27
				300	1.43
				1,000	1.04
				3,000	1.01
				10,000	1
U-238	Surface Soil	50.00	No	1	30.5
				3	18.3
				10	11.1
				30	5.73
				100	2.27
				300	1.43
				1,000	1.04
				3,000	1.01
				10,000	1

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU05 Interval 1 02		
Comments:	SU05 Interval 1 Run 02		
Area (m²):	2,961	Classification:	2
Selected Test:	Sign	Estimated Sigma (SOR):	0.09
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0.5	Estimated Conc. (SOR):	0.28
Alpha:	0.050	Estimated Power:	1
Beta:	0.050		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2.80	N/A	N/A	N/A	N/A
U-234	50.00	N/A	N/A	N/A	N/A
U-238	50.00	N/A	N/A	N/A	N/A

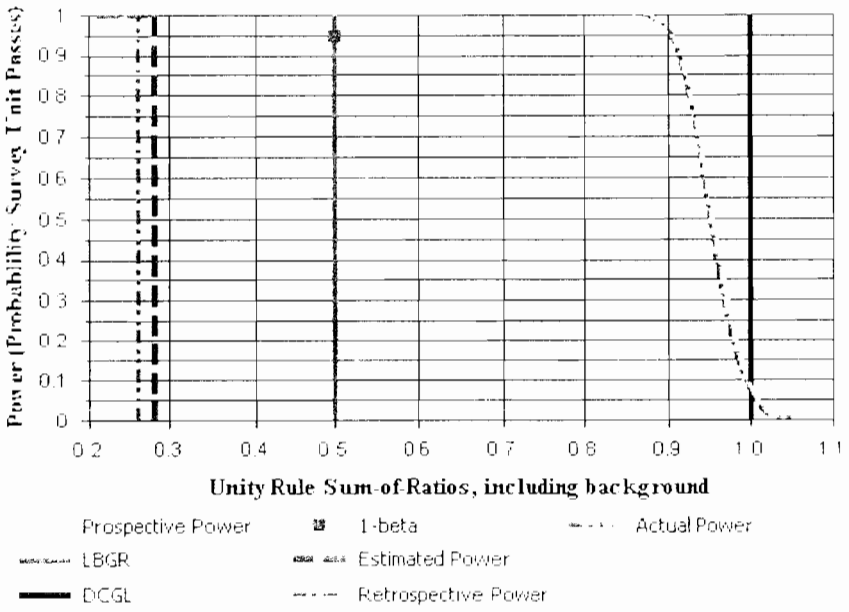
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0.612 ± 0.206	N/A
U-234	1.606 ± 1.949	N/A
U-238	1.579 ± 2.005	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU05 Interval 1 02		
Report Number:	1		
Survey Unit Samples:	21		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
30679	S	0.63	0.89	0.81
30282	S	0.41	2.94	2.79
30149	S	0.81	1.03	0.88
30589	S	0.59	1.38	1.17
30469	S	0.62	0.4	0.46
30367	S	0.38	0.58	0.59
29985	S	0.54	6.81	6.87
30711	S	0.45	0.94	0.83
29951	S	0.85	1.57	1.57
30040	S	0.38	2.79	2.8
30356	S	0.74	0.58	0.57
30217	S	0.83	7.3	7.6
30435	S	0.91	0.66	0.66
29847	S	0.95	0.93	0.84
30417	S	0.73	0.83	0.79
30640	S	0.32	0.37	0.35
30098	S	0.6	1.66	1.54
30539	S	0.86	0.76	0.68
29921	S	0.45	0.52	0.51
30331	S	0.54	0.35	0.43
29898	S	0.28	0.43	0.42

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
30679	S	0.26
30282	S	0.26
30149	S	0.33
30589	S	0.26
30469	S	0.24
30367	S	0.16
29985	S	0.47
30711	S	0.2
29951	S	0.37
30040	S	0.25
30356	S	0.29
30217	S	0.59
30435	S	0.35
29847	S	0.37
30417	S	0.29
30640	S	0.13
30098	S	0.28
30539	S	0.34
29921	S	0.18

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
30331	S	0.21
29898	S	0.12

DQA Surface Soil Report

Basic Statistical Quantities Summary

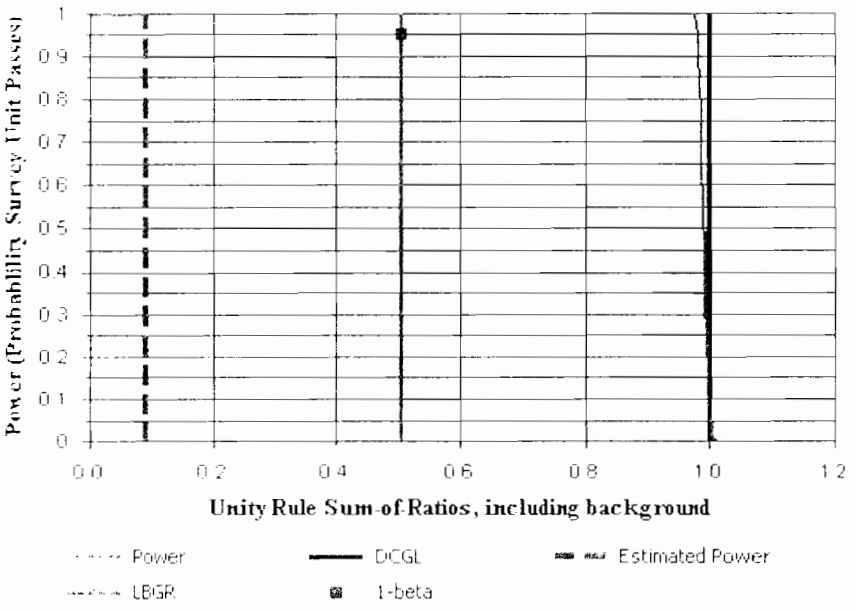
Statistic	Survey Unit	Background	DQO Results
Sample Number	21	N/A	N=13
Mean (SOR)	0 28	N/A	0.28
Median (SOR)	0 26	N/A	N/A
Std Dev (SOR)	0 11	N/A	0 09
High Value (SOR)	0 59	N/A	N/A
Low Value (SOR)	0 12	N/A	N/A

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU05 Interval 2 01		
Comments:	SU05 Interval 2 Run 01		
Area (m²):	2,961	Classification:	2
Selected Test:	Sign	Estimated Sigma (SOR):	0.02
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0 5	Estimated Conc. (SOR):	0.09
Alpha:	0 050	Estimated Power:	1
Beta:	0.050		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2 80	N/A	N/A	N/A	N/A
U-234	50 00	N/A	N/A	N/A	N/A
U-238	50 00	N/A	N/A	N/A	N/A

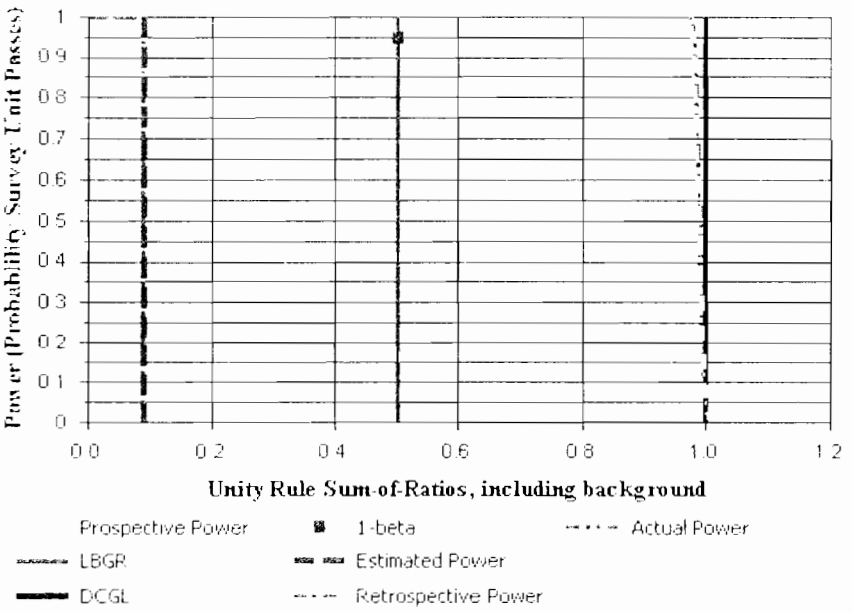
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0 217 ± 0 058	N/A
U-234	0 332 ± 0 153	N/A
U-238	0 323 ± 0 171	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU05 Interval 2 01		
Report Number:	1		
Survey Unit Samples:	21		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion:	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
30291	S	0.21	0.29	0.24
30379	S	0.31	0.27	0.2
30159	S	0.28	0.25	0.26
30484	S	0.17	0.2	0.2
30688	S	0.2	0.3	0.21
29993	S	0.19	0.38	0.44
30598	S	0.25	0.28	0.22
30055	S	0.21	0.79	0.8
29961	S	0.21	0.23	0.26
30236	S	0.24	0.39	0.33
30370	S	0.16	0.37	0.36
30728	S	0.22	0.18	0.26
30452	S	0.3	0.21	0.22
30425	S	0.17	0.21	0.17
30340	S	0.16	0.2	0.14
29907	S	0.31	0.57	0.68
29934	S	0.21	0.22	0.33
30113	S	0.07	0.52	0.54
29862	S	0.23	0.46	0.33
30654	S	0.19	0.23	0.17
30564	S	0.26	0.41	0.42

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
30291	S	0.09
30379	S	0.12
30159	S	0.11
30484	S	0.07
30688	S	0.08
29993	S	0.09
30598	S	0.1
30055	S	0.11
29961	S	0.09
30236	S	0.1
30370	S	0.07
30728	S	0.09
30452	S	0.12
30425	S	0.07
30340	S	0.06
29907	S	0.14
29934	S	0.09
30113	S	0.05
29862	S	0.1

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE: Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
30654	S	0 08
30564	S	0 11

DQA Surface Soil Report

Basic Statistical Quantities Summary

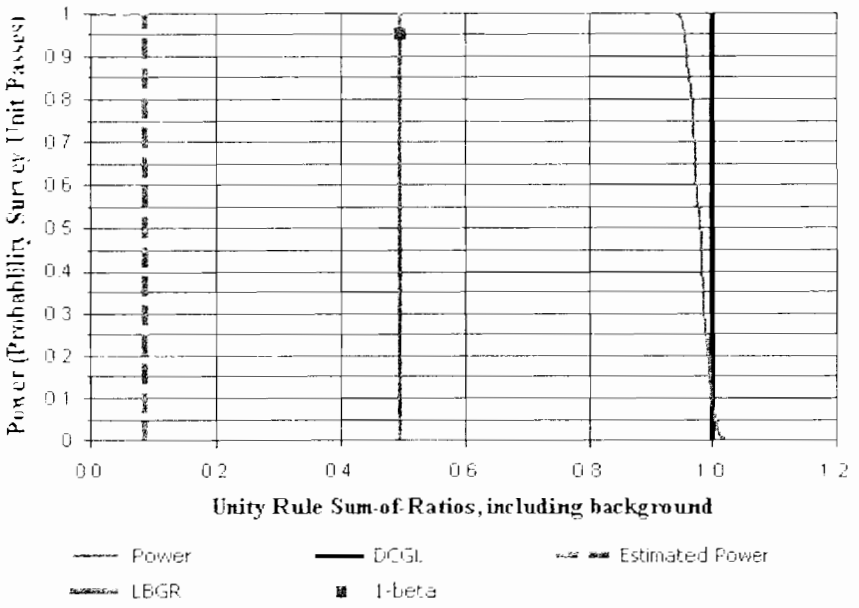
Statistic	Survey Unit	Background	DQO Results
Sample Number	21	N/A	N=13
Mean (SOR)	0.09	N/A	0.09
Median (SOR)	0.09	N/A	N/A
Std Dev (SOR)	0.02	N/A	0.02
High Value (SOR)	0.14	N/A	N/A
Low Value (SOR)	0.05	N/A	N/A

Surface Soil Survey Plan

Survey Plan Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU05 Interval 3 01		
Comments:	SU05 Interval 3 Run 01		
Area (m²):	2,961	Classification:	2
Selected Test:	Sign	Estimated Sigma (SOR):	0.04
DCGL (SOR):	1	Sample Size (N):	13
LBGR (SOR):	0 5	Estimated Conc. (SOR):	0.09
Alpha:	0.050	Estimated Power:	1
Beta:	0 050		

Prospective Power Curve



Surface Soil Survey Plan

Contaminant Summary

Contaminant	DCGLw (pCi/g)	Inferred Contaminant	Ratio	Modified DCGLw (pCi/g)	Scan MDC (pCi/g)
Th-232	2 80	N/A	N/A	N/A	N/A
U-234	50 00	N/A	N/A	N/A	N/A
U-238	50 00	N/A	N/A	N/A	N/A

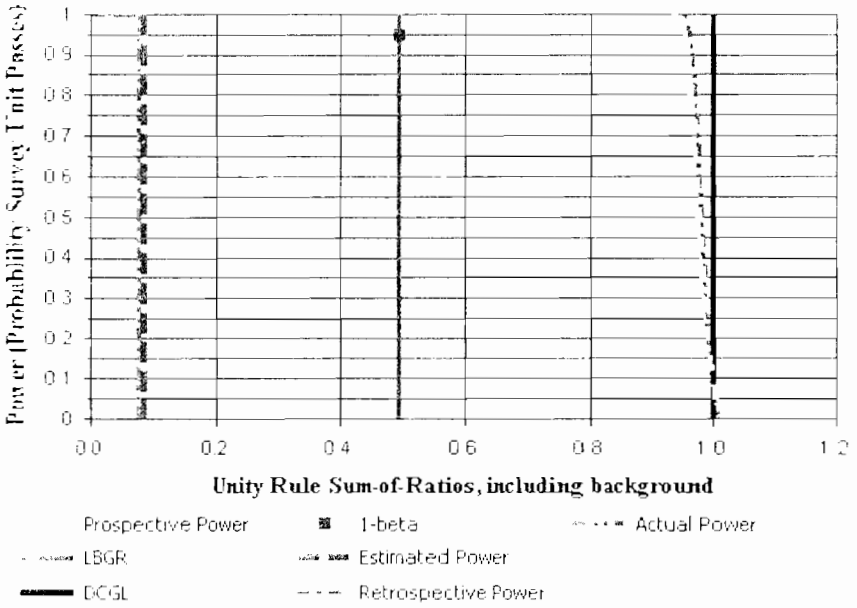
Contaminant	Survey Unit Estimate (Mean ± 1-Sigma) (pCi/g)	Reference Area Estimate (Mean ± 1-Sigma) (pCi/g)
Th-232	0 216 ± 0 105	N/A
U-234	0 27 ± 0 248	N/A
U-238	0 273 ± 0 225	N/A

DQA Surface Soil Report

Assessment Summary

Site:	GTEOSI - Hicksville Site		
Planner(s):	Shane Brightwell		
Survey Unit Name:	SU05 Interval 3 01		
Report Number:	1		
Survey Unit Samples:	21		
Reference Area Samples:	0		
Test Performed:	Sign	Test Result:	Not Performed
Judgmental Samples:	0	EMC Result:	Not Performed
Assessment Conclusion	***Reject Null Hypothesis (Survey Unit PASSES)***		

Retrospective Power Curve



DQA Surface Soil Report

Survey Unit Data

NOTE Type = "S" indicates survey unit sample
Type = "R" indicates reference area sample.

Sample Number	Type	Th-232 (pCi/g)	U-234 (pCi/g)	U-238 (pCi/g)
30017	S	0 2	1 29	1 17
30304	S	0.29	0 19	0 21
30401	S	0.24	0 2	0 2
30606	S	0.2	0 2	0 14
30184	S	0.61	0 31	0 26
30499	S	0 18	0 15	0 18
30697	S	0.25	0 18	0 26
30256	S	0.16	0.51	0 58
30075	S	0 17	0.18	0.17
30739	S	0.12	0 1	0 13
30391	S	0 12	0 23	0 19
29970	S	0 25	0 18	0 14
30461	S	0.12	0 19	0 27
30443	S	0.22	0.29	0.23
30572	S	0.32	0 17	0 24
29881	S	0.21	0.21	0 19
29924	S	0.16	0 31	0.28
29942	S	0 17	0 24	0 28
30127	S	0 12	0 2	0 23
30350	S	0 2	0 16	0 18
30666	S	0 21	0.19	0 2

Modified Data (Unity Rule SOR)

NOTE Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
30017	S	0 12
30304	S	0.11
30401	S	0 1
30606	S	0.08
30184	S	0 23
30499	S	0.07
30697	S	0.1
30256	S	0 08
30075	S	0 07
30739	S	0.05
30391	S	0.05
29970	S	0 1
30461	S	0.05
30443	S	0.09
30572	S	0.12
29881	S	0.08
29924	S	0.07
29942	S	0 07
30127	S	0 05

DQA Surface Soil Report

Modified Data (Unity Rule SOR)

NOTE. Type = "S" indicates survey unit sample.
Type = "R" indicates reference area sample.

Sample Number	Type	Sum-of-Ratios (SOR)
30350	S	0.08
30666	S	0.08

DQA Surface Soil Report

Basic Statistical Quantities Summary

Statistic	Survey Unit	Background	DQO Results
Sample Number	21	N/A	N=13
Mean (SOR)	0.09	N/A	0.09
Median (SOR)	0.08	N/A	N/A
Std Dev (SOR)	0.04	N/A	0.04
High Value (SOR)	0.23	N/A	N/A
Low Value (SOR)	0.05	N/A	N/A